

Waterloo Region District School Board

Waterloo-Oxford District Secondary School

Window Replacements, Interior Alterations and HVAC Upgrades

1206 Snyder's Rd W, Baden, ON N3A 1A4

ISSUED FOR BID

Cornerstone Architecture Incorporated
ARCHITECT

MTE Consultants Inc.
STRUCTURAL ENGINEERS

MNE Engineering Inc.
MECHANICAL & ELECTRICAL ENGINEERS

DRAWING LIST

ARCHITECTURAL

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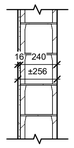
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WALL ASSEMBLY LEGEND

NOTES:
1. THESE WALL TYPES ARE APPLICABLE TO TYPICAL WALL CONDITIONS ON ALL FLOOR PLANS. THERE ARE EXCEPTIONS THAT ARE NOTED / DETAILED IN THESE DOCUMENTS.
2. ALL WALL HEIGHTS ARE TO UNDERSIDE OF STRUCTURE ABOVE (BOTTOM CHORD, METAL DECK, ETC...) UNLESS NOTED OR DETAILED OTHERWISE.
3. WHERE INDICATED ON FLOOR PLAN CONSTRUCTION MATERIALS / WALL ASSEMBLY TO COMPLY WITH REQUIRED FIRE RESISTANCE RATING, JOINTS TO BE SEALED CONTINUOUS AND BE FIRE STOPPED TO PREVENT THE PASSAGE OF SMOKE.
4. REPAIR EXISTING WALLS WHERE REQUIRED. MAKE GOOD TO RECEIVE NEW MATERIALS AND FINISHES. REFER TO ROOM FINISH SCHEDULE.
5. WHERE EXISTING WALL CONSTRUCTION IS BEING IN-FILLED WITH NEW WALL CONSTRUCTION, THE FACE OF NEW WALL FINISHES ARE TO ALIGN WITH THE FACE OF THE EXISTING WALL FINISHES.
6. ALL CONCRETE BLOCK WALL FIRE RESISTANCE RATINGS ARE CALCULATED USING OBC SB-2 TABLE 2.1.1. REFER TO THE ULC DESIGN NUMBER OF ALL OTHER PARTITIONS UNLESS NOTED OTHERWISE

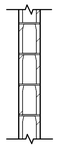


CB-1

INTERIOR CONCRETE BLOCK WALL INFILL

- 16mm IMPACT RESISTANT GYP. BD, (ALIGN FACE WITH EXISTING WALL FINISH), ON,
- 190mm CONCRETE BLOCK
- 16mm IMPACT RESISTANT GYP. BD, (ALIGN FACE WITH EXISTING WALL FINISH),

TOOTH-IN CONCRETE BLOCK TO MATCH EXISTING SIZE AND MORTAR JOINTS



CB-2

CB-2a

INTERIOR NON-LOAD BEARING CONCRETE BLOCK WALL

- 140mm CONCRETE BLOCK

INTERIOR NON-LOAD BEARING CONCRETE BLOCK WALL

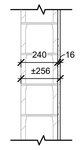
- 140mm CONCRETE BLOCK
- 16mm IMPACT RESISTANT GYP. BD.



CB-3

INTERIOR NON-LOAD BEARING CONCRETE BLOCK WALL

- 190mm CONCRETE BLOCK



GB-1

INTERIOR GYPSUM FURR OUT

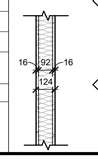
- 16mm IMPACT RESISTANT GYP. BD, ON,
- EXISTING CONCRETE BLOCK

ALIGN FACE OF GYP. BD WITH EXIST. WALL FINISH

FIRE RESISTANCE RATING CALCULATIONS FOR WALLS CONSTRUCTED OF CONCRETE MASONARY UNITS

REFERNCE OBC SB-2 TABLE 2.1.1.

TAG	SIZE	TYPE	EQUIV. THICK.	PROVIDED FRR	REQUIRED FRR
CB-2 CB-2a	140 CMU	N	73mm	1 HOUR	30 MIN (MAX.)
CB-3	190 CMU	N	95mm	1.5 HOUR	30 MIN (MAX.)
CB-1 GB-1	240 CMU (EXIST)	N	113mm	2.0 HOUR	30 MIN (MAX.)



MS-1

MS-1a

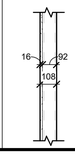
INTERIOR METAL STUD PARTITION
0-HOUR FIRE RATING

- 16mm IMPACT RESISTANT GYP. BD, BOTH SIDES, ON,
- 92mm METAL STUDS @ 400mm O.C. MAX SPACING c/w,
- 89mm SOUND BATT INSULATION

INTERIOR METAL STUD PARTITION

- SAME AS ABOVE EXCEPT SUBSTITUTE 16mm IMPACT REISTANT GYP. BD. WITH 16MM TYPE-X GYP. BD, BOTH SIDES

* USE TILE BACKER BOARD WHERE CERAMIC TILE IS IDENFITIFED ON RFS AND INTERIOR ELEVATIONS. (REFER TO SPEC.)

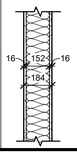


MS-2

INTERIOR METAL STUD PARTITION

- 16mm IMPACT RESISTANT GYP. BD, ON,
- 92mm METAL STUD FRAMING @ 400mm O.C. MAX SPACING

* USE TILE BACKER BOARD WHERE CERAMIC TILE IS IDENFITIFED ON RFS AND INTERIOR ELEVATIONS. (REFER TO SPEC.)



MS-3

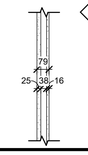
MS-3a

INTERIOR METAL STUD PARTITION

- 16mm IMPACT RESISTANT GYP. BD, ON,
- 152mm METAL STUD FRAMING @ 400mm O.C. MAX SPACING

INTERIOR METAL STUD PARTITION

- SAME AS ABOVE EXCEPT SUBSTITUTE 16mm IMPACT REISTANT GYP. BD. WITH 16MM TYPE-X GYP. BD, BOTH SIDES



SW-1

SHAFT WALL - 1 HOUR F.R.R.
(ULC DESIGN DESIGN No. W452, SYSTEM A)

- 16mm FIRE RATED GYP. BD, ON,
- 64mm C-H METAL STUDS @ 610mm O.C. SPACING c/w
- 25mm GYPSUM LINE PANELS

ROOM FINISH SCHEDULE

LEGEND

ACT1	**ACOUSTIC TILE TYPE 1**	**CM**	**CEILING MATERIAL**	**EXP**	**EXPOSED**	**P**	**PAINT**	**WF**	**WALL FINISH**
ACT2	**ACOUSTIC TILE TYPE 2**	**CONC.**	**POURED CONCRETE**	**FF**	**FLOOR FINISH**	**RB**	**RUBBER BASE**	**WM**	**WALL MATERIAL**
CB	**CONCRETE BLOCK**	**CT**	**CERAMIC TILE**	**FM**	**FLOOR MATERIAL**	**RSF**	**RESILIENT SHEET FLOORING**	**-**	**NOT APPLICABLE**
CF	**CEILING FINISH**	**EX**	**EXISTING**	**GB**	**GYPSUM BOARD**	**TERR**	**TERRAZZO**		

NOTES:

1. COORDINATE THIS SCHEDULE WITH REFLECTED CEILING PLAN, INTERIOR ELEVATIONS, AND FLOOR PLANS.

2. PAINT BOTH SIDES OF ALL NEW AND EXISTING METAL DOORS AND FRAMES ON ALL WALLS RECEIVING NEW PAINT FINISH. COLOUR TO BE SELECTED BY THE ARCHITECT.

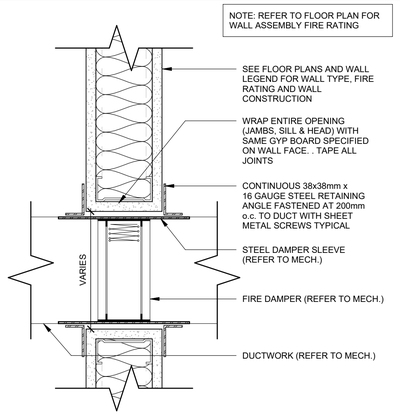
3. ONLY PAINT EXISTING PAINTED SURFACES ON WALLS TO RECEIVE NEW PAINT FINISH.

4. ALL CEILINGS NOTED TO BE EXPOSED (EXP) ARE TO BE PAINTED ENTIRELY INCLUDING DUCTWORK, PIPING, CONDUIT, STRUCTURE, METAL DECK, SPRAY APPLIED FIRE PROOFING, ETC. COLOUR TO BE SELECTED BY THE ARCHITECT.

5. TOOTH-IN NEW BLOCK AND PATCH AND REPAIR PLASTER/GWB FINISH WHERE ELECTRICAL FIXTURES ARE REMOVED & PAINT AS REQUIRED.

6. WHERE EXISTING RADIATORS ARE TO REMAIN, PAINT EXISTING RADIATOR COVERS.

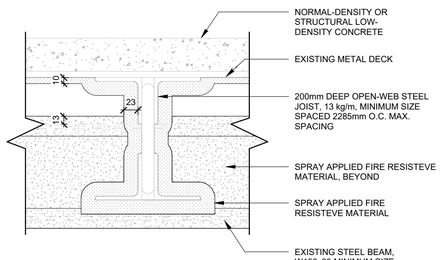
NO.	ROOM NAME	FLOOR			NORTH		EAST		SOUTH		WEST		CEILING		REMARKS
		FM	FF	BASE	WM	WF	WM	WF	WM	WF	WM	WF	CM	CF	
FIRST FLOOR															
313	DRY STORAGE	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
314	BULK STORAGE	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
315	STORAGE ROOM	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	GB	P	
315A	WASHROOM	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	GB	P	
316	REFRIGERATOR	EX	ESF	ESF	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	
317	KITCHEN	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
317A	DIETICIAN	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
319	SERVERY	EX	PT	PT	EX	EX	EX	EX	EX	EX	EX	EX	ACT2	-	PRESSURE WASH ALL EXISTING BLOCK WALLS.
320	DISHWASHING	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
501	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
502	GUIDANCE	EX	EX	EX	EX	P	EX	P	EX	P	EX	P	ACT1	-	
503	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
504	LEADERSHIP RM	EX	EX	EX	EX	P	EX	P	EX	P	EX	P	ACT1	-	
504A	STORAGE	EX	EX	EX	EX	P	EX	P	EX	P	EX	P	ACT1	-	
504B	RADIO	EX	EX	EX	EX	P	EX	P	EX	P	EX	P	ACT1	-	
505	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
506	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	
507	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
810	CORRIDOR	EX	EX	EX	EX	P	EX	P	EX	P	EX	P	ACT1	-	
818	GARBAGE	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	GB	P	
819	CORRIDOR	EX	ESF	ESF	EX	P	EX	P	EX	P	EX	P	ACT2	-	
819A	ELEC.	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	
FIN FLR SECOND FLR OVER SHOP WING															
520	WASHROOMS	EX	PT	PT	GB	P	GB	CT	GB	CT	GB	CT	EX	GB	NORTH WALL: PATCH & REPAIR EXIST. WALL AS REQUIRED AND PAINT.
520A	WR	EX	PT	PT	EX/CB	CT	GB	CT	GB	CT	GB	CT	GB	P	
520B	WR	EX	PT	PT	GB	CT	GB	CT	GB	CT	GB	CT	GB	P	
520C	WR	EX	PT	PT	GB	CT	GB	CT	GB	CT	GB	CT	GB	P	
520D	B.F. WR	EX	PT	PT	GB	CT	GB	CT	EX	CT	GB	CT	GB	P	
520E	B.F. WR	EX	PT	PT	GB	CT	GB	CT	EX	CT	EX	CT	GB	P	
520F	WR	EX	PT	PT	GB	CT	GB	CT	GB	CT	EX	CT	GB	P	
520G	WR	EX	PT	PT	GB	CT	GB	CT	GB	CT	EX	CT	GB	P	
520H	WR	EX	PT	PT	EX/CB	CT	GB	CT	GB	CT	EX	CT	GB	P	
559	CUST./ELEC.	EX	ESF	ESF	GB	P	EX	P	EX	P	GB	P	EX	-	PAINT EXPOSED STRUCTURE
560	RESOURCE	EX	RSF	RB	GB	P	EX	P	GB	P	GB	P	ACT1	-	
561	OFFICE	EX	RSF	RB	EX	P	EX	P	GB	P	GB	P	ACT1	-	PAINT NEW GB BULKHEAD
(1966) T/O SECOND FLOOR															
521	COMPUTER CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
521A	OFFICE	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
522	CLASSROOM	EX	EX	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
523	COMPUTER CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
524	CLASSROOM	EX	EX	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
525	COMPUTER CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
526	CLASSROOM	EX	EX	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
527	CLASSROOM	EX	RSF	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
528	CLASSROOM	EX	EX	RB	EX	P	EX	P	EX	P	EX	P	ACT1	-	PAINT NEW GB BULKHEAD
823	CORRIDOR	EX		EX	EX		EX		EX		EX		ACT1	-	



SMOKE/FIRE DAMPER DETAIL

0 50 200mm
1:5

BXUVC.F816 - 1 HOUR FIRE RESISTANCE RATING	
NORMAL-DENSITY CONCRETE	
DECK:	8mm
OWSJ:	31mm
BEAM:	13mm
LOW-DENSITY CONCRETE	
DECK:	10mm
OWSJ:	31mm
BEAM:	15mm



TYP. SPRAY-APPLIED FIRE PROOFING DETAIL

0 50 200mm
1:5

ABBREVIATIONS

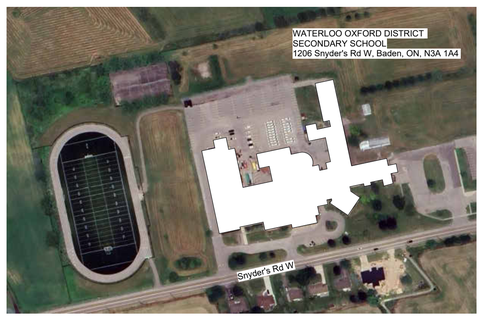
NOTES, LEGENDS, & ABBREVIATIONS ARE APPLICABLE TO ALL DRAWINGS

AFF	ABOVE FINISHED FLOOR	EXIST	EXISTING	O.C	ON CENTRE
ALUM	ALUMINUM	EXT	EXTERIOR	PDO	POWER DOOR OPERATOR
ARCH	ARCHITECTURAL	FEX	FIRE EXTINGUISHER	PREFIN	PREFINISHED
ACT	ACOUSTIC CEILING TILE	F	FRIDGE (OWNER SUPPLIED)	RFHC	RECESSED FIRE HOSE CABINET
A/V	AIR/VAPOUR BARRIER	FG	FLOOR GRILLE	RD	ROOF DRAIN
B.F.	BARRIER FREE	FIN	FINISH	RTU	ROOF TOP UNIT
BLKHD	BULKHEAD	GB	GRAB BAR	RWL	RAIN WATER LEADER
CB	CONCRETE BLOCK	GMWB	GLASS MAT GYPSUM BOARD	SND	SANITARY NAPKIN DISPENSER
CLG	CEILING	GYP BD	GYPSUM BOARD	SPEC	SPECIFICATIONS
CONC	CONCRETE	HM	HOLLOW METAL	STL	STEEL
CONT	CONTINUOUS	INSUL	INSULATION	STRUC	STRUCTURAL
c/w	COMPLETE WITH	LKR	LOCKER	T/O	TOP OF
D	DRYER	MECH	MECHANICAL	TTD	TOILET TISSUE DISPENSER
DIA	DIAMETER	MFG	MANUFACTURER	TV	TELEVISION (OWNER SUPPLIED)
D.F.	DRINKING FOUNTAIN	MICRO	MICROWAVE (OWNER SUPPLIED)	TWF	THROUGH WALL FLASHING
DW	DISH WASHER	MIN	MINIMUM	TYP	TYPICAL
DWG	DRAWING	MIRR	MIRROR	U/S	UNDERSIDE
ECS	EMERGENCY CALL SYSTEM	mm	MILLIMETRES	VCT	VINYL COMPOSITE TILE
ELEC	ELECTRICAL	MW	MILLWORK	W	WASHING MACHINE
EP	ELECTRICAL PANEL	N.I.C	NOT IN CONTRACT	w/	WITH

GENERAL NOTES

THIS LEGEND IS APPLICABLE TO ALL DRAWINGS

1. CONTRACTOR TO VERIFY DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
2. REFER TO FLOOR PLANS FOR FIRE SEPARATION LOCATIONS.CARRY ALL PARTITIONS TO UNDERSIDE OF STRUCTURAL METAL DECK UNLESS NOTED OR DETAILED OTHERWISE.
3. FIRE STOP ALL JOINTS AND PENETRATIONS IN FIRE SEPARATIONS.
4. INTERIOR DIMENSIONS ARE FROM FACE OF WALL FINISH TO FACE OF WALL FINISH.
5. ALL CONCRETE BLOCK TO BE LIGHT WEIGHT.
6. PROVIDE SOLID WOOD BLOCKING BEHIND ALL WASHROOM AND SERVERY ACCESSORIES & DOOR HARDWARE IN METAL STUD PARTITIONS.
7. INFILL ALL EXISTING MECHANICAL OPENINGS WITH NEW BLOCK TO MATCH EXISTING. COORDINATE WITH MECHANICAL DEMOLITION PLANS.
8. USE MOISTURE RESISTANT GMWB IN ALL WASHROOMS, SHOWER ROOMS, AND KITCHEN AREAS.
9. ALL INTERIOR CONCRETE BLOCK CORNERS TO BE BULLNOSED. TYPICAL AT ALL LOCATIONS UNLESS NOTED OTHERWISE.
10. ALL WALLS TO BE CONSTRUCTED AS 0-HOUR FIRE SEPARATIONS UNLESS NOTED OTHERWISE.
11. ALL PARTITIONS TO CARRY OVER OPENINGS UNLESS NOTED OTHERWISE.
12. CONTRACTOR TO RESTORE ALL AREAS DISTURBED BY CONSTRUCTION.
13. TOOTH-IN NEW MASONRY UNITS WITH EXISTING MASONRY UNITS, MASONRY UNIT SIZE AND JOINTS TO MATCH EXISTING MASONRY UNITS.
14. ALL DOORS INSTALLED 100mm FROM WALL ON HINGE SIDE UNLESS DETAILED OTHERWISE.



SITE KEY PLAN

NOT TO SCALE

N
PROJECT NORTH

Name of Practice: Cornerstone Architecture Incorporated
102-320 Thames Street London, ON N6A 0E1
tel (519) 432-6644 fax (519) 432-6737

BUILDING CODE VERSION O.REG. 332/12 LAST AMENDMENT: O.REG. 191/14

Certificate of Practice No. 2677

Name of Project: Waterloo Oxford District Secondary School

Project Location: 1206 Snyder's Road, Baden, ON, N3A 1A4

ITEM	ONTARIO BUILDING CODE DATA MATRIX PART 11	O.B.C. REFERENCE
01	Project Type: ☐ New ☐ Addition ■ Renovation ☐ Change of Use ☐ Addition & Renovation Description: Interior Renovation	PART 11 [A] 1.1.2.
02	Major Occupancy (s): Group 'A' - Division 2 - Assembly Occupancy, School	3.2.2.24.
03	Building Area (m²): Second Floor: Existing: 3,887 m² New: 0 m² Total: 3,887 m² Ground Floor: Existing: 12,003 m² New: 0 m² Total: 12,003 m² Port-A-Pack: Existing: 717 m² New: 0 m² Total: 717 m²	[A] 1.4.1.2.
04	Gross Area: Existing: 16,007 m² New: 0 m² Total: 16,007 m²	
05	Number of Storeys: Above Grade: 2 Below Grade: 0 Height of Building (m): ±9.05 m (Existing)	[A] 1.4.1.2. 3.2.1.1.
06	Number of Streets / Fire Fighters Access Routes: 3 (Existing)	3.2.2.10. & 3.2.5.
07	Building Classification: Renovated: 3.2.2.24 Group A Division 2, up to 6 Storeys Existing: 3.2.2.25 Group A Division 2, up to 2 Storeys	3.2.2.20 - .83
08	Sprinkler System Proposed: ☐ Entire Building ■ Selected Compartments (Existing and Renovated) ☐ Existing Entire Building ☐ In Lieu of Roof Rating ☐ Not Required	3.2.2.20 - .83
09	Standpipe Required: ☐ YES ☐ NO ■ EXISTING	3.2.9.
10	Fire Alarm Required: ☐ YES ☐ NO ■ EXISTING	3.2.4.
11	Water Service/ Supply is Adequate: ☐ YES ☐ NO ■ EXISTING	
12	High Building: ☐ YES ☐ NO ■ EXISTING	
13	Permitted Construction: ☐ COMBUSTIBLE ■ NON-COMBUSTIBLE ☐ BOTH	3.2.2.25.
14	Mezzanine (s) Area m²: N/A (0m²)	
15	Occupant Load based on: ☐ m² / Person ■ Design of building Occupancy: Group 'A' - Division 2 Total Load = 1340 Students	
16	Barrier-free Design: ■ YES ☐ NO (EXPLAIN)	
17	Hazardous Substances: ☐ YES ■ NO (EXPLAIN)	
18	Renovated Required Fire Resistance Rating (FRR): Horizontal Assemblies FRR (Hours) / Listed Design No. or Description (SB-2) Floors: YES 1 Hours — ULC Design No. F816 (1-Hour Fire Rating) Roof: YES 0 Hours Mezzanine: YES 1 Hours — Not Applicable FRR of Supporting Members / Listed Design No. or Description (SB-2) Floors: YES 1 Hours — ULC Design No. F816 (1-Hour Fire Rating) Roof: YES 0 Hours Mezzanine: YES 1 Hours — Not Applicable	3.2.2.24. (Renovated)
19	Existing Required Fire Resistance Rating (FRR): Horizontal Assemblies FRR (Hours) / Listed Design No. or Description (SB-2) Floors: YES 3/4 Hours — ULC Design No. F816 (1-Hour Fire Rating) Roof: YES 3/4 Hours — ULC Design No. F816 (1-Hour Fire Rating) Mezzanine: YES 3/4 Hours — Not Applicable FRR of Supporting Members / Listed Design No. or Description (SB-2) Floors: YES 3/4 Hours — ULC Design No. F816 (1-Hour Fire Rating) Roof: YES 3/4 Hours — ULC Design No. F816 (1-Hour Fire Rating) Mezzanine: YES 3/4 Hours — Not Applicable	3.2.2.25. (Existing)
20	Existing Building Classification: Describe Existing Use: A2 - Secondary School Construction Index: Hazard Index: ■ Not Applicable (no charge in major occupancy)	11.2.1. T 11.2.1.1A T 11.2.1.1B to N
21	Alteration to Existing Building is: ☐ Basic Renovation ■ Extensive Renovation	11.3.3.1. & 11.3.3.2.
22	Occupant Load based on: ☐ m² / Person ■ Design of building Total Occupant Load: EXISTING (no change)	3.1.17
23	Plumbing Fixture Requirements: Ratio: Male/Female = 50/50 Except as noted otherwise RATIO: EXISTING EXISTING / REQUIRED / PROVIDED MALE: EXISTING / EXISTING / EXISTING (no change) FEMALE: EXISTING / EXISTING / EXISTING (no change) NOTE: AS PART OF THE RENOVATION, EIGHT (8) EXISTING PLUMBING FIXTURES ARE TO BE REMOVED AND REPLACED WITH EIGHT (8) NEW PLUMBING FIXTURES. AS SUCH, THERE IS NO CHANGE TO THE OVERALL PLUMBING FIXTURE COUNT.	3.7.4
24	Reduction in Performance Level: Structural: ☐ YES ■ NO By Increase in Occupant Load: ☐ YES ■ NO By Change in Major Occupancy: ☐ YES ■ NO Plumbing: ☐ YES ■ NO Sewage-Systems: ☐ YES ■ NO Extension of Combustible Construction: ☐ YES ■ NO	11.4.2. 11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.4.2.6.
25	Compensating Construction: Structural: ☐ YES ■ NO By Increase in Occupant Load: ☐ YES ■ NO By Change in Major Occupancy: ☐ YES ■ NO Plumbing: ☐ YES ■ NO Sewage-Systems: ☐ YES ■ NO Extension of Combustible Construction: ☐ YES ■ NO	11.4.3. 11.4.3.2. 11.4.3.3. 11.4.3.4. 11.4.3.5. 11.4.3.6. 11.4.3.7.
26	Compliance Alternatives Proposed: ☐ YES ■ NO	11.5.1.
27	Notes:	11.5.1.

Note: All references are to Division B of the OBC unless preceded by [A] for Division A and [C] for Division C

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2026-03-27 ISSUED FOR BID

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo-Oxford District Secondary School

1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

BUILDING ELEMENTS, SCHEDULES, OBC DATA, TYPICAL DETAILS, ABBREVIATIONS & GENERAL NOTES

Plot Date: 2026-03-27
Drawn By: CAI
Project No.: 11167A

A0.01

DOOR & FRAME SCHEDULE

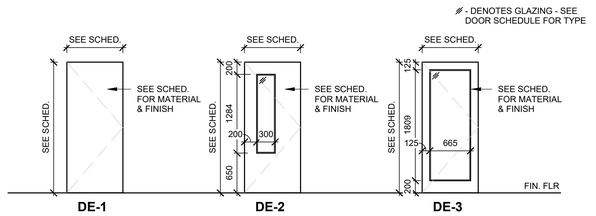
LEGEND

DE	DOOR ELEVATION	FD	FRAME DETAIL	FRR	FIRE RESISTANCE RATING	P	PAINT	TEMP	TEMPERED
DF	DOOR FINISH	FE	FRAME ELEVATION	H	HEIGHT	PDO	POWER DOOR OPERATOR	W	WIDTH
DM	DOOR MATERIAL	FF	FRAME FINISH	HM	HOLLOW METAL	S&V	STAIN AND VARNISH	WD	WOOD
EX	EXISTING	FM	FRAME MATERIAL	min.	MINUTE	T	THICKNESS	-	NOT APPLICABLE

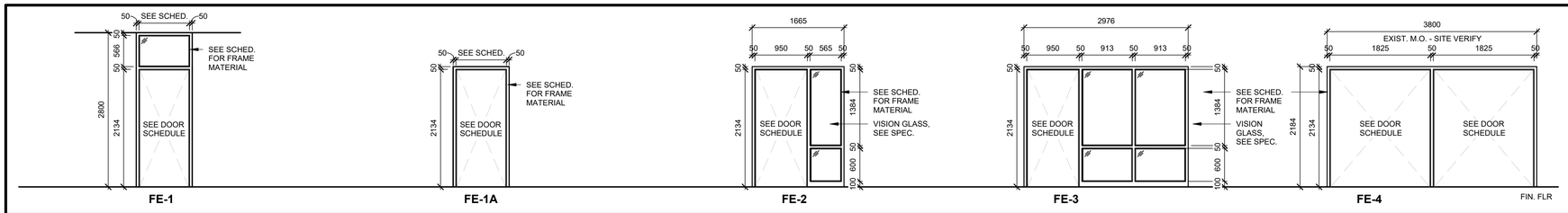
NOTES:

1. SITE CONFIRM DIMENSIONS OF ALL NEW DOORS AND FRAMES

NO.	DOOR				GLASS	LABEL (FRR)	FRAME				HARDWARE			REMARKS
	SIZE	DE	DM	DF			FE	FD	FM	FF	HANDLE	CLOSER	LOCK	
SHOP FLOOR														
901-1	2x915x2134x50	DE-3	ALUM	ANOD	INSUL		FE-4	FD-4	ALUM	ANOD	PULL	YES	YES	PDO
901-2	2x915x2134x50	DE-3	ALUM	ANOD	INSUL		FE-4	FD-4	ALUM	ANOD	PULL	YES	YES	PDO
(1962) T/O SHOP ROOF DECK														
520A-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
520B-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
520C-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
520D-1	950x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	YES	YES	
520E-1	950x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	YES	YES	
520F-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
520G-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
520H-1	860x2134x45	DE-1	HM	P	TEMP		FE-1	FD-2	HM	P	LEVER	NO	YES	
559-1	965x2134x45	DE-1	HM	P	-	3/4 HR	FE-1A	FD-1	HM	P	LEVER	YES	YES	
560-1	950x2134x45	DE-2	HM	P	TEMP		FE-2	FD-1	HM	P	LEVER	YES	YES	
561-1	950x2134x45	DE-2	HM	P	TEMP		FE-3	FD-1	HM	P	LEVER	YES	YES	

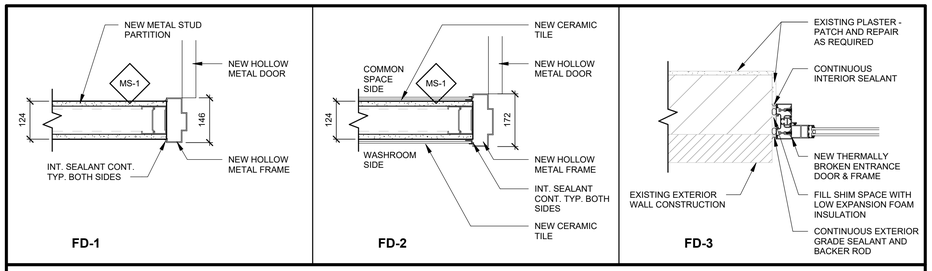


DOOR ELEVATIONS



FRAME ELEVATIONS

- DENOTES GLAZING - SEE DOOR SCHEDULE FOR TYPE



FRAME DETAILS

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ISSUED FOR BID
2026-03-27

WATERLOO REGION DISTRICT SCHOOL BOARD

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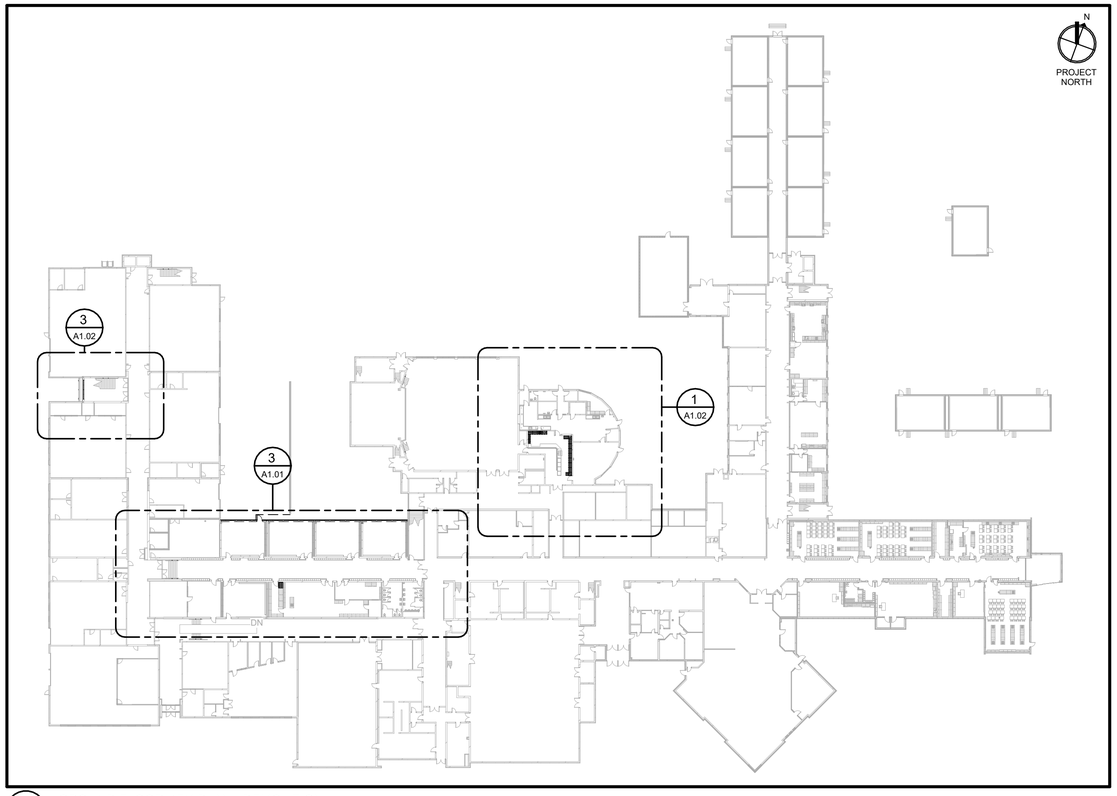
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

DOOR SCHEDULE

Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

A0.02



1 A1.01 GROUND FLOOR KEY PLAN - DEMOLITION

DEMOLITION KEY NOTES

No.	NOTE
1	REMOVE EXIST. VCT FLOOR FINISH c/w ADHESIVES, REMOVE EXIST. RUBBER WALL BASE c/w ADHESIVES, MAKE GOOD SURFACES TO ACCEPT NEW FINISH
2	REMOVE EXIST. ACOUSTIC CEILING TILES AND GRID c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
2A	REMOVE EXIST. GWB CEILING c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
3	REMOVE EXISTING GYPSUM BOARD CEILING AND FURRING CHANNELS AT OWSJ, INCLUDING ALL SUPPORTS AND ATTACHMENTS. PREPARE OWSJ FOR NEW SPRAY-APPLIED FIREPROOFING AND NEW ACT CEILING.
4	REMOVE EXISTING WOOD WINDOW SILLS, INCLUDING ALL FASTENERS AND ACCESSORIES. MAKE GOOD SUBSTRATE TO RECEIVE NEW WINDOW SILLS.
5	REMOVE EXISTING ALUMINUM WINDOW, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, AND ACCESSORIES. PREPARE ROUGH OPENING TO RECEIVE NEW ALUMINUM WINDOW FRAMING.
6	REMOVE EXISTING ALUMINUM DOOR, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, HARDWARE, AND ACCESSORIES. PREPARE OPENING FOR WALL INFILL.
7	REMOVE EXIST. CONCRETE FLOOR STRUCTURE AND ALL SUPPORTS AT EXIST. DOOR LOCATION. REMOVE EXIST. GUARDRAIL AND ALL ASSOCIATED SUPPORTS. CUT BACK CONCRETE TO ADJACENT ASPHALT LEVEL. PREPARE AREA FOR NEW STAIRS TO LOWER GRADE
8A	REMOVE EXIST. CEILING ON FIRST FLOOR BELOW SECOND FLOOR WASHROOMS FOR PLUMBING MODIFICATIONS (REFER TO MECH.). SALVAGE EXISTING LIGHT FIXTURES FOR RESINSTALLATION ON EXPOSED CEILING (REFER TO ELEC.)
9	REMOVE PORTION OF SECOND FLOOR STRUCTURE TO ACCOMMODATE NEW DUCTWORK PENETRATION TO FIRST FLOOR (REFER TO STRUC.).
10	REMOVE EXISTING INTERIOR DOORS, FRAMES, HARDWARE, AND ASSOCIATED ACCESSORIES.
11	REMOVE EXISTING PLUMBING FIXTURES, INCLUDING WATER CLOSETS, WASHFOUNTAIN, & URINALS (REFER TO MECH.)
12	REMOVE EXISTING TOILET PARTITIONS, INCLUDING PANELS, DOORS, ANCHORS, AND ALL ASSOCIATED HARDWARE.
13	REMOVE EXISTING INTERIOR PARTITIONS, INCLUDING STUDS, GYPSUM BOARD, AND ASSOCIATED FINISHES.
14	REMOVE EXISTING CONCRETE BLOCK WALLS AS INDICATED ON DRAWINGS, INCLUDING ALL ASSOCIATED FINISHES.
15	REMOVE PORTION OF EXIST. CONCRETE BLOCK TO SUIT NEW OPENING.
16	REMOVE EXISTING LOUVRE IN ITS ENTIRETY (REFER TO MECH). INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING WHERE INDICATED, OR PREPARE OPENING TO RECEIVE NEW WINDOW AS SHOWN. REFER TO PROPOSED FLOOR PLANS FOR EXTENT OF WORK.
17	CAREFULLY DISCONNECT, SALVAGE, AND PROTECT ALL EXISTING STAINLESS STEEL COUNTERTOPS, WORK SURFACES, DISHWASHING STATIONS, SERVERY UNITS, SHELVING, AND ASSOCIATED STAINLESS STEEL FABRICATIONS, INCLUDING ALL REFRIGERATORS, FREEZERS, WASHER, DRYER, AND ANY OTHER LOOSE OR FIXED EQUIPMENT REQUIRED TO FACILITATE NEW FLOORING INSTALLATION.
18	REMOVE EXISTING MILLWORK IN ITS ENTIRETY, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. DISCONNECT AND COORDINATE REMOVAL OF ANY ASSOCIATED ELECTRICAL OR PLUMBING CONNECTIONS AS REQUIRED. PREPARE WALLS, FLOORS, AND ADJACENT SURFACES TO RECEIVE NEW MILLWORK, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, LEVEL, AND READY FOR INSTALLATION.
18A	REMOVE PORTION OF EXISTING MILLWORK, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. MAKE GOOD SURFACES TO ACCEPT NEW FINISH.
19	CAREFULLY DISCONNECT AND REMOVE EXISTING STAINLESS STEEL KITCHEN EXHAUST HOOD IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED SUPPORTS, BRACKETS, FASTENERS, AND CONNECTIONS. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR DISCONNECTION AND ANY OTHER ASSOCIATED SERVICESS. REMOVE EXISTING STAINLESS STEEL WALL PROTECTION/PANELS BELOW AND ADJACENT TO HOOD AS REQUIRED. PREPARE WALLS AND CEILING SURFACES TO RECEIVE NEW NFPA-COMPLIANT HOOD AND NEW STAINLESS STEEL WALL PROTECTION, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, SMOOTH, AND READY TO ACCEPT NEW FINISHES.
20	REMOVE EXISTING PRE-FINISHED VENTED SOFFIT IN ITS ENTIRETY, INCLUDING ALL TRIM PIECES, FASTENERS, SUPPORTS, AND ASSOCIATED ACCESSORIES. PROTECT EXISTING CANOPY STRUCTURE AND ALL ADJACENT CONSTRUCTION TO REMAIN. PREPARE SUBSTRATE AND SUPPORTING FRAMING AS REQUIRED TO RECEIVE NEW SOFFIT.
21	REMOVE EXISTING METAL FASCIA IN ITS ENTIRETY, INCLUDING ALL FASTENERS, TRIMS, AND ASSOCIATED ACCESSORIES. PROTECT EXISTING FASCIA BOARD AND ADJACENT CONSTRUCTION TO REMAIN. PREPARE EXISTING FASCIA BOARD TO RECEIVE NEW FASCIA.
22	REMOVE EXISTING PRE-FINISHED METAL FLASHING AT GRAVEL STOP IN ITS ENTIRETY, INCLUDING ALL FASTENERS AND ASSOCIATED ACCESSORIES. PROTECT EXISTING GRAVEL STOP, WOOD BLOCKING, ROOF MEMBRANE, AND ALL ADJACENT CONSTRUCTION TO REMAIN. PREPARE EXISTING SUBSTRATE TO RECEIVE NEW PRE-FINISHED METAL FLASHING
23	REMOVE EXISTING WOOD VALANCE IN ITS ENTIRETY c/w WOOD BLOCKING AS REQUIRED. MAKE GOOD SURFACES TO ACCEPT NEW FINISH.
24	REMOVE EXIST. ROOFTOP UNIT ITS ENTIRETY c/w CURB. (REFER TO MECH.) PATCH AND REPAIR EXIST ROOF TO MATCH EXIST. CONSTRUCTION.
25	MODIFY EXISTING TACKBOARD/CHALKBOARD FRAME TO SUIT INSTALLATION OF NEW CONSOLE UNIT/TEACHERS CLOSET. REFER TO INTERIOR ELEVATIONS FOR CONSOLE UNIT LOCATION.

DEMOLITION NOTES

THESE NOTES ARE APPLICABLE TO ALL DRAWINGS

1. CONTRACTOR TO VERIFY ALL DIMENSION ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. DEMOLITION PLANS ARE TO BE READ IN CONJUNCTION WITH FLOOR PLANS.
3. CONFIRM THE REMOVAL OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.
4. CONFIRM THE REMOVAL OF ALL ELECTRICAL EQUIPMENT WITH ELECTRICAL DRAWINGS.
5. CONFIRM THE EXTENT AND DIMENSION OF ALL AREAS TO BE REMOVED WITH FLOOR PLANS.
6. WORK TO BE PERFORMED BY THE FOLLOWING TERMS:
   - 'REMOVE' - ITEM SHALL BE REMOVED AND DISCARDED.
   - 'RELOCATE' - ITEM SHALL BE CAREFULLY REMOVED AND RELOCATED AS INDICATED.
   - 'RTO' - ITEM SHALL BE CAREFULLY REMOVED AND RETURNED TO OWNER.
   - 'SALVAGE' - ITEM SHALL BE CAREFULLY REMOVED AND PROTECTED/ STORED FOR REINSTALLATION.
8. WHERE EXISTING FLOOR FINISHES ARE TO BE REMOVED INCLUDE THE REMOVAL OF EXISTING WALL BASE AND ALL ADHESIVES.
9. WHERE EXISTING WALLS ARE TO BE REMOVED INCLUDE THE REMOVAL OF TERRAZZO WALL BASE IF APPLICABLE.
10. SALVAGE EXISTING ACCESSORIES, INCLUDING SOAP DISPENSERS, PAPER TOWEL DISPENSERS, ETC.
11. SALVAGE ALL KITCHEN EQUIPMENT, REFRIGERATOR, FREEZER, WASHER, DRYER, RANGE-OVEN, DISHWASHER, MICROWAVE AND RETURN TO OWNER
12. REFER TO ASBESTOS REPORT FOR LOCATIONS OF ASBESTOS PRODUCTS.
13. OWNER TO REMOVE ALL SMARTBOARDS, PROJECTORS AND ELECTRONIC DEVICES PRIOR TO ANY WORK COMMENCING.
14. WHERE CEILINGS ARE BEING DEMOLISHED INCLUDE THE REMOVAL OF ALL LOOSE OR FALLEN DEBRIS ABOVE, COORDINATE REMOVAL WITH ASBESTOS AUDIT REPORT, REFER TO SPECIFICATIONS.

FIRE RATING LEGEND

- 0 HR Fire Rating
- 3/4 HR Fire Rating
- 1 HR Fire Rating
- 2 HR Fire Rating

NOTES:
FIRESTOP ALL PENETRATIONS TO SUIT REQUIRED RATING.

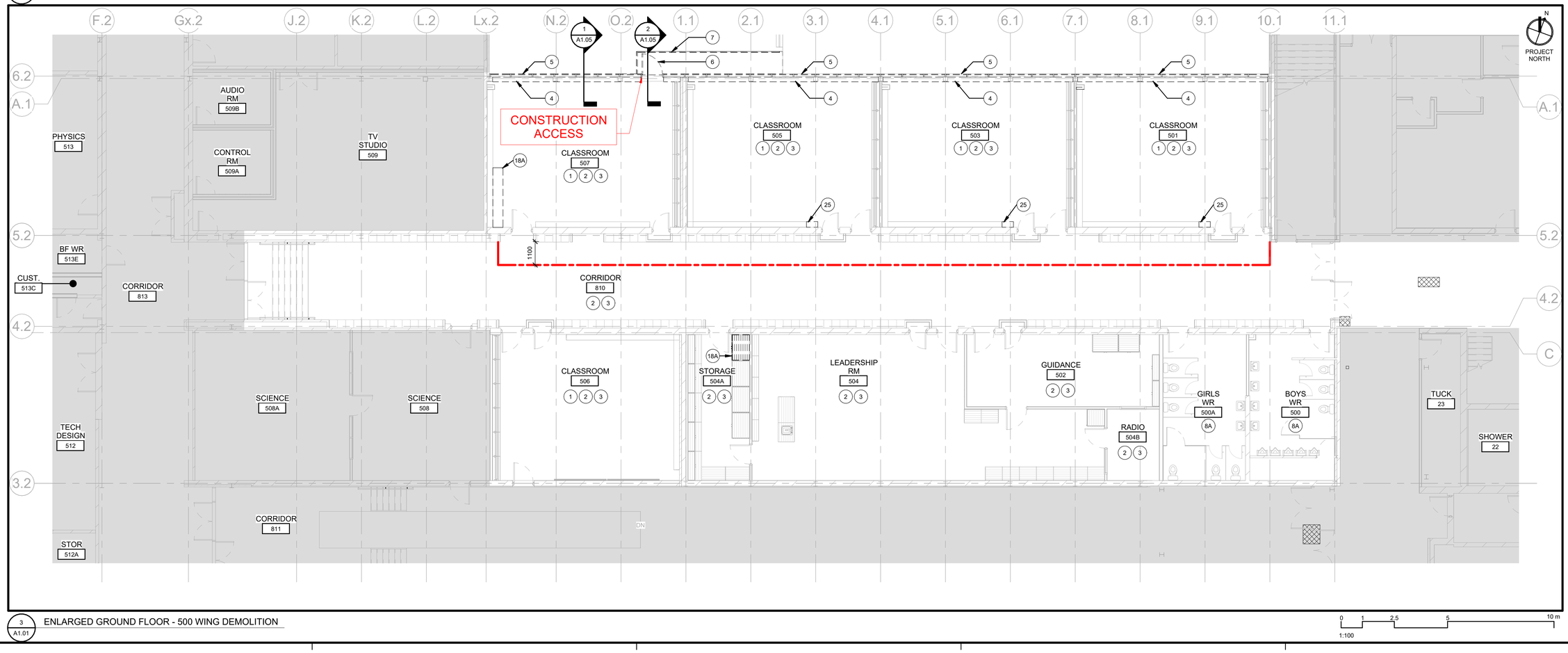
0 HOUR SEPARATION TO BE SMOKE SEALED ONLY.

ALL FIRE RATINGS NOTED ON THESE DRAWINGS ARE EXISTING FIRE RESISTANT RATINGS OF EXISTING FIRE SEPARATIONS

DEMOLITION LEGEND

APPLICABLE TO ALL DRAWINGS

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE DEMOLISHED
	BREAK OUT NEW OPENINGS IN EXISTING WALL
	EXISTING DOOR TO REMAIN
	REMOVE EXISTING DOOR & FRAME, SALVAGE ALL DOOR HARDWARE. (HINGES, LOCKSETS, & CLOSURES)
	REMOVE, RELOCATE OR SALVAGE EXISTING MILLWORK c/w SINKS, FITTINGS & ACCESSORIES AS INDICATED
NOTE	INDICATES EXTENT OF AREA OF REMOVAL OR SALVAGE WORK SCOPE AS NOTED
	INDICATES REMOVAL AREA OF FLOOR SLAB TO SUIT NEW STRUCTURAL WORK. (REFER TO STRUC.)
	REMOVE, RELOCATE, OR SALVAGE EXISTING ELECTRICAL PANEL AS INDICATED, COORDINATE WITH ELECTRICAL DRAWINGS.
	INDICATES TEMPORARY CONSTRUCTION MEASURES INCLUDING HOARDING WALL AND CONSTRUCTION ACCESS.



3 A1.01 ENLARGED GROUND FLOOR - 500 WING DEMOLITION

0 1 2.5 5 10 m
1:100

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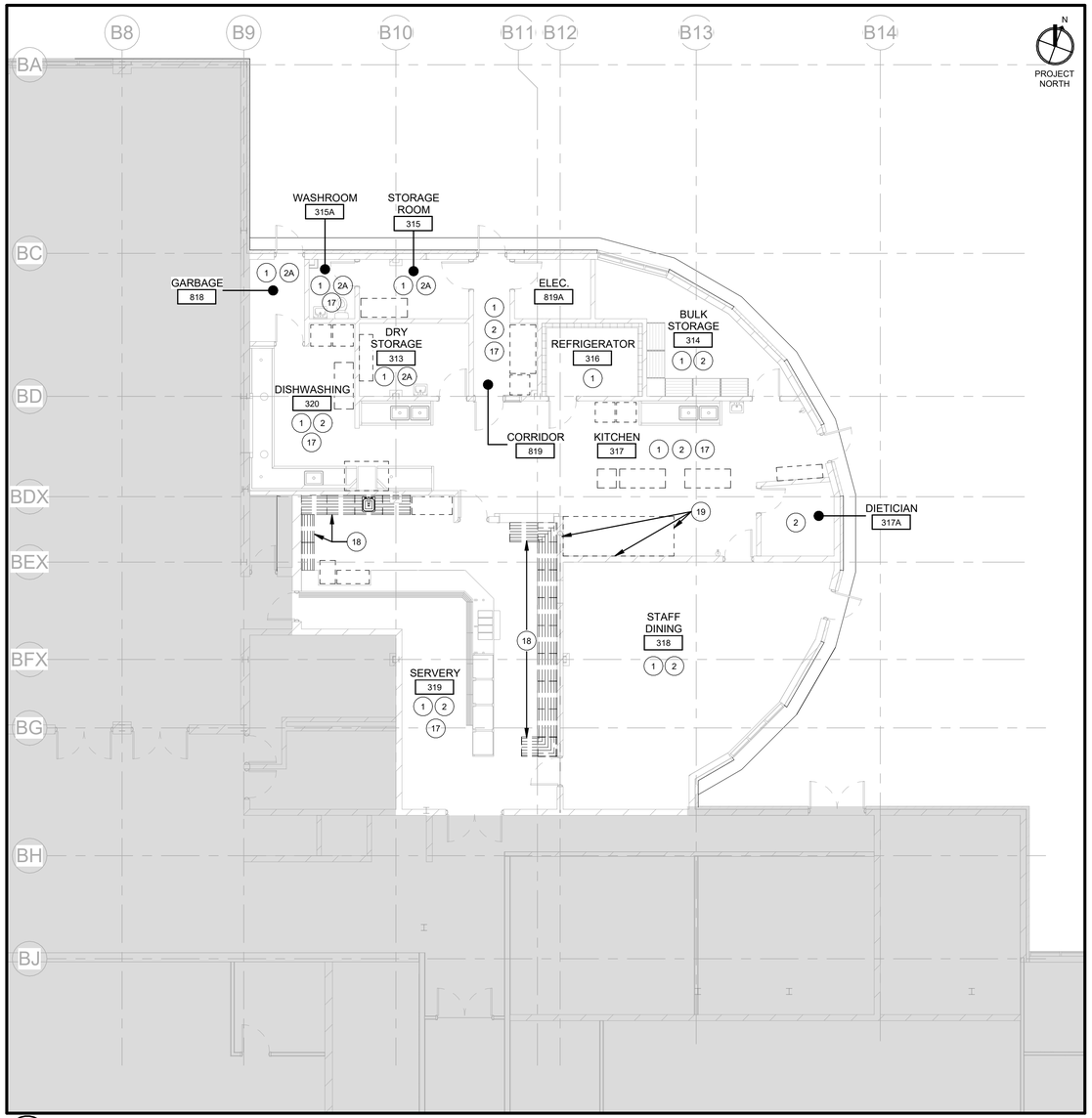
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

DEMOLITION KEY PLANS, PARTIAL GROUND FLOOR DEMOLITION

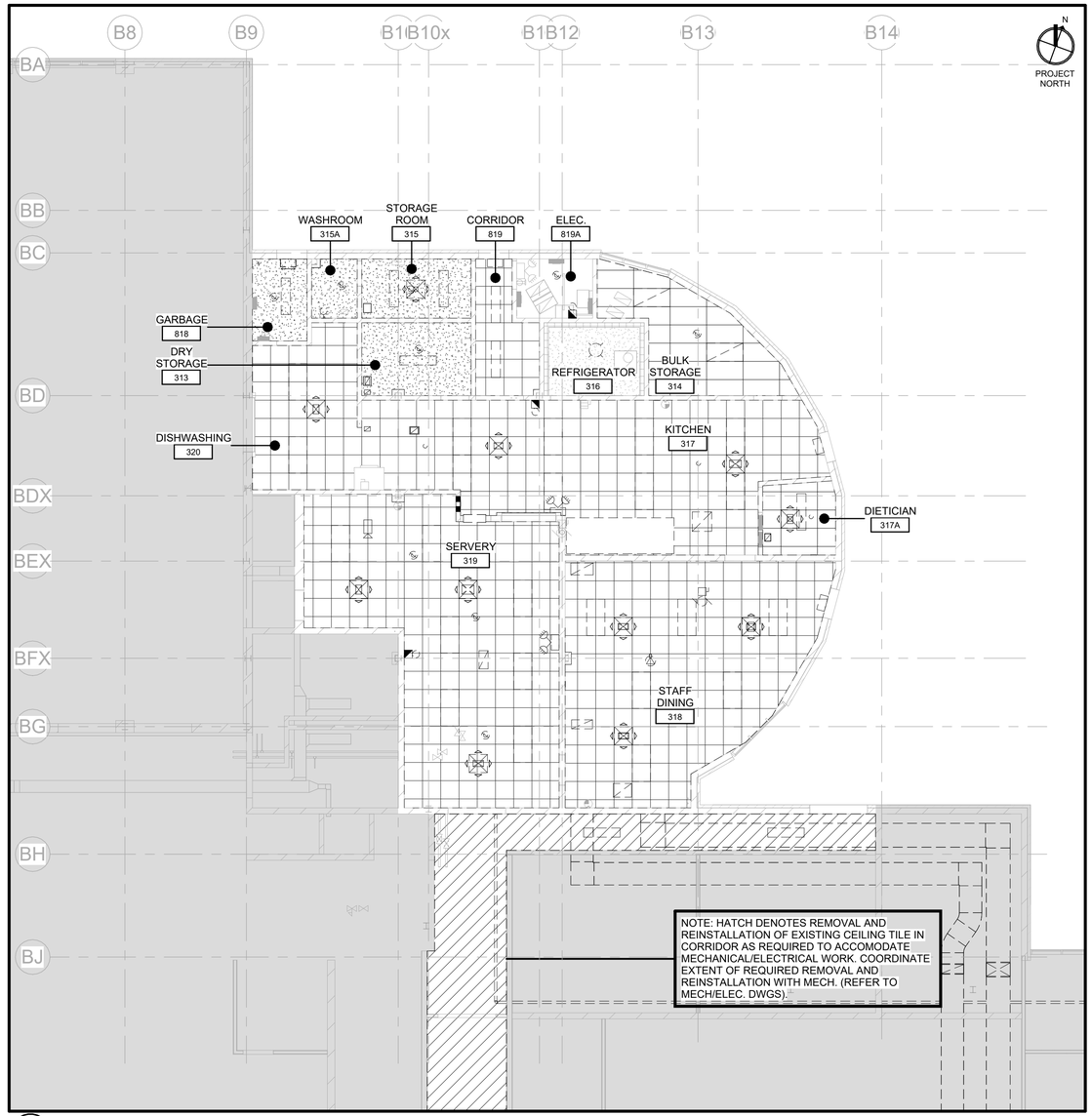
Plot Date:	2026-03-27
Drawn By:	CAI
Project No.:	1167A

A1.01



1 A1.02 ENLARGED GROUND FLOOR - CAFETERIA KITCEHN DEMOLITION

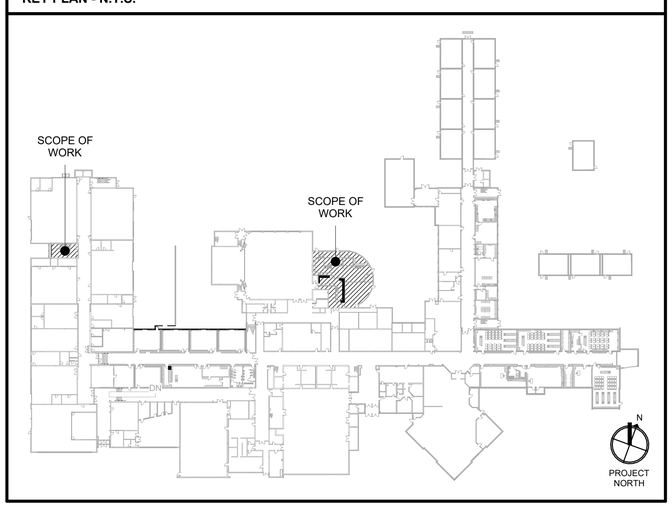
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1:100

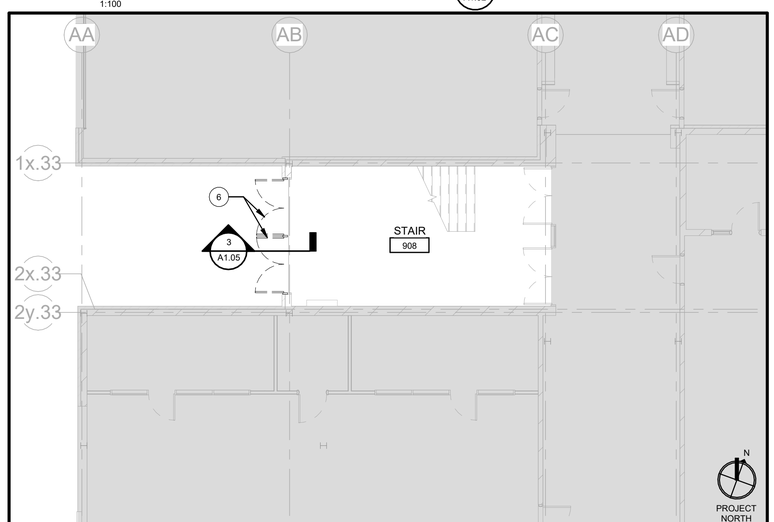


2 A1.02 ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - CAFETERIA KITCHEN DEMOLITION

0 1 2.5 5 10 m
1:100

KEY PLAN - N.T.S.





3 A1.02 ENLARGED GROUND FLOOR - STAIR 908 DEMOLITION

0 1 2.5 5 10 m
1:100

DEMOLITION KEY NOTES

No.	NOTE
1	REMOVE EXIST. VCT FLOOR FINISH c/w ADHESIVES, REMOVE EXIST. RUBBER WALL BASE c/w ADHESIVES, MAKE GOOD SURFACES TO ACCEPT NEW FINISH
2	REMOVE EXIST. ACOUSTIC CEILING TILES AND GRID c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
2A	REMOVE EXIST. GWB CEILING c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
3	REMOVE EXISTING GYPSUM BOARD CEILING AND FURRING CHANNELS AT OWSJ, INCLUDING ALL SUPPORTS AND ATTACHMENTS, PREPARE OWSJ FOR NEW SPRAY-APPLIED FIREPROOFING AND NEW ACT CEILING.
4	REMOVE EXISTING WOOD WINDOW SILLS, INCLUDING ALL FASTENERS AND ACCESSORIES. MAKE GOOD SUBSTRATE TO RECEIVE NEW WINDOW SILLS.
5	REMOVE EXISTING ALUMINUM WINDOW, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, AND ACCESSORIES. PREPARE ROUGH OPENING TO RECEIVE NEW ALUMINUM WINDOW FRAMING.
6	REMOVE EXISTING ALUMINUM DOOR, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, HARDWARE, AND ACCESSORIES. PREPARE OPENING FOR WALL INFILL.
7	REMOVE EXIST. CONCRETE FLOOR STRUCTURE AND ALL SUPPORTS AT EXIST. DOOR LOCATION. REMOVE EXIST. GUARDRAIL AND ALL ASSOCIATED SUPPORTS. CUT BACK CONCRETE TO ADJACENT ASPHALT LEVEL. PREPARE AREA FOR NEW STAIRS TO LOWER GRADE.
8A	REMOVE EXIST. CEILING ON FIRST FLOOR BELOW SECOND FLOOR WASHROOMS FOR PLUMBING MODIFICATIONS (REFER TO MECH.). SALVAGE EXISTING LIGHT FIXTURES FOR RESINSTALLATION ON EXPOSED CEILING (REFER TO ELEC.)
9	REMOVE PORTION OF SECOND FLOOR STRUCTURE TO ACCOMMODATE NEW DUCTWORK PENETRATION TO FIRST FLOOR (REFER TO STRUC.).
10	REMOVE EXISTING INTERIOR DOORS, FRAMES, HARDWARE, AND ASSOCIATED ACCESSORIES.
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12	REMOVE EXISTING TOILET PARTITIONS, INCLUDING PANELS, DOORS, ANCHORS, AND ALL ASSOCIATED HARDWARE.
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14	REMOVE EXISTING CONCRETE BLOCK WALLS AS INDICATED ON DRAWINGS, INCLUDING ALL ASSOCIATED FINISHES.
15	REMOVE PORTION OF EXIST. CONCRETE BLOCK TO SUIT NEW OPENING.
16	REMOVE EXISTING LOUVRE IN ITS ENTIRETY (REFER TO MECH). INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING WHERE INDICATED, OR PREPARE OPENING TO RECEIVE NEW WINDOW AS SHOWN. REFER TO PROPOSED FLOOR PLANS FOR EXTENT OF WORK.
17	CAREFULLY DISCONNECT, SALVAGE, AND PROTECT ALL EXISTING STAINLESS STEEL COUNTERTOPS, WORK SURFACES, DISHWASHING STATIONS, SERVERY UNITS, SHELVING, AND ASSOCIATED STAINLESS STEEL FABRICATIONS, INCLUDING ALL REFRIGERATORS, FREEZERS, WASHER, DRYER, AND ANY OTHER LOOSE OR FIXED EQUIPMENT REQUIRED TO FACILITATE NEW FLOORING INSTALLATION.
18	REMOVE EXISTING MILLWORK IN ITS ENTIRETY, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. DISCONNECT AND COORDINATE REMOVAL OF ANY ASSOCIATED ELECTRICAL OR PLUMBING CONNECTIONS AS REQUIRED. PREPARE WALLS, FLOORS, AND ADJACENT SURFACES TO RECEIVE NEW MILLWORK, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, LEVEL, AND READY FOR INSTALLATION.
18A	REMOVE PORTION OF EXISTING MILLWORK, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. MAKE GOOD SURFACES TO ACCEPT NEW FINISH.
19	CAREFULLY DISCONNECT AND REMOVE EXISTING STAINLESS STEEL KITCHEN EXHAUST HOOD IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED SUPPORTS, BRACKETS, FASTENERS, AND CONNECTIONS. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR DISCONNECTION AND ANY OTHER ASSOCIATED SERVICESS. REMOVE EXISTING STAINLESS STEEL WALL PROTECTION/PANELS BELOW AND ADJACENT TO HOOD AS REQUIRED. PREPARE WALLS AND CEILING SURFACES TO RECEIVE NEW NFPA-COMPLIANT HOOD AND NEW STAINLESS STEEL WALL PROTECTION, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, SMOOTH, AND READY TO ACCEPT NEW FINISHES.
20	REMOVE EXISTING PRE-FINISHED VENTED SOFFIT IN ITS ENTIRETY, INCLUDING ALL TRIM PIECES, FASTENERS, SUPPORTS, AND ASSOCIATED ACCESSORIES. PROTECT EXISTING CANOPY STRUCTURE AND ALL ADJACENT CONSTRUCTION TO REMAIN. PREPARE SUBSTRATE AND SUPPORTING FRAMING AS REQUIRED TO RECEIVE NEW SOFFIT.
21	REMOVE EXISTING METAL FASCIA IN ITS ENTIRETY, INCLUDING ALL FASTENERS, TRIMS, AND ASSOCIATED ACCESSORIES. PROTECT EXISTING FASCIA BOARD AND ADJACENT CONSTRUCTION TO REMAIN. PREPARE EXISTING FASCIA BOARD TO RECEIVE NEW FASCIA.
22	REMOVE EXISTING PRE-FINISHED METAL FLASHING AT GRAVEL STOP IN ITS ENTIRETY, INCLUDING ALL FASTENERS AND ASSOCIATED ACCESSORIES. PROTECT EXISTING GRAVEL STOP, WOOD BLOCKING, ROOF MEMBRANE, AND ALL ADJACENT CONSTRUCTION TO REMAIN. PREPARE EXISTING SUBSTRATE TO RECEIVE NEW PRE-FINISHED METAL FLASHING
23	REMOVE EXISTING WOOD VALANCE IN ITS ENTIRETY c/w WOOD BLOCKING AS REQUIRED. MAKE GOOD SURFACES TO ACCEPT NEW FINISH.
24	REMOVE EXIST. ROOFTOP UNIT ITS ENTIRETY c/w CURB. (REFER TO MECH.) PATCH AND REPAIR EXIST ROOF TO MATCH EXIST. CONSTRUCTION.
25	MODIFY EXISTING TACKBOARD/CHALKBOARD FRAME TO SUIT INSTALLATION OF NEW CONSOLE UNIT/TEACHERS CLOSET. REFER TO INTERIOR ELEVATIONS FOR CONSOLE UNIT LOCATION.

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Waterloo-Oxford District Secondary School

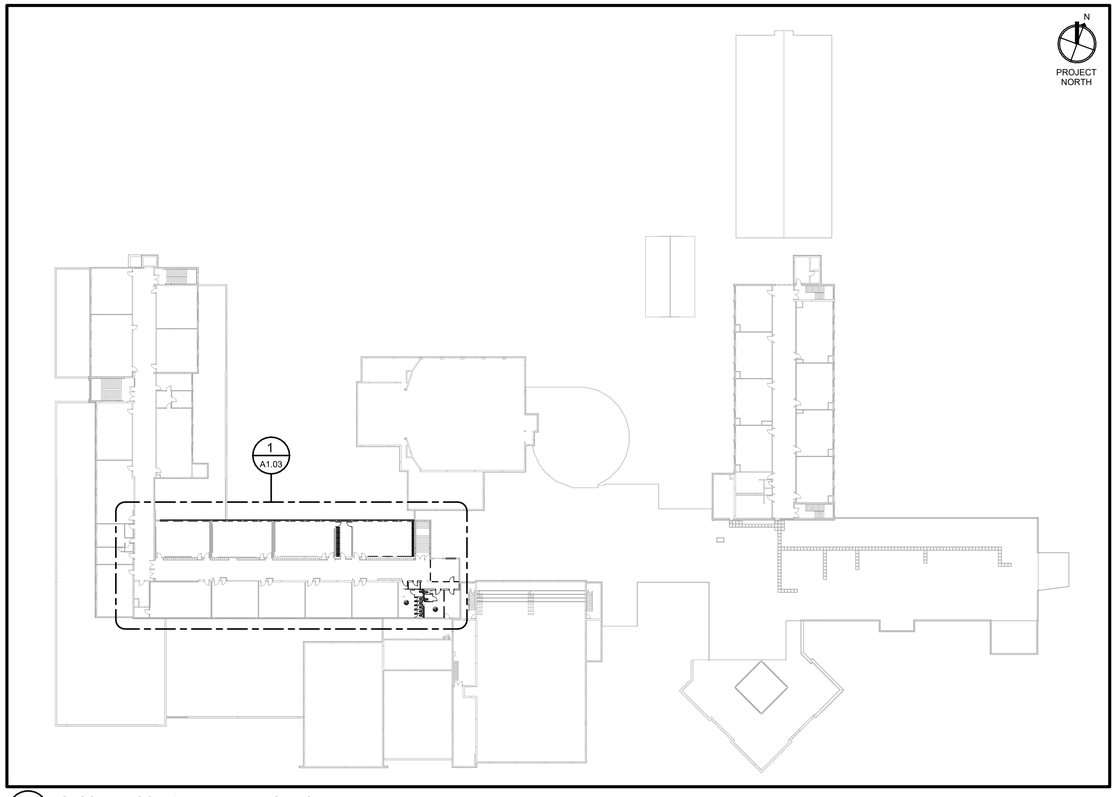
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

ENLARGED DEMOLITION FLOOR PLAN & REFLECTED CEILING PLAN

Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

A1.02



2 A1.03 SECOND FLOOR KEY PLAN - DEMOLITION

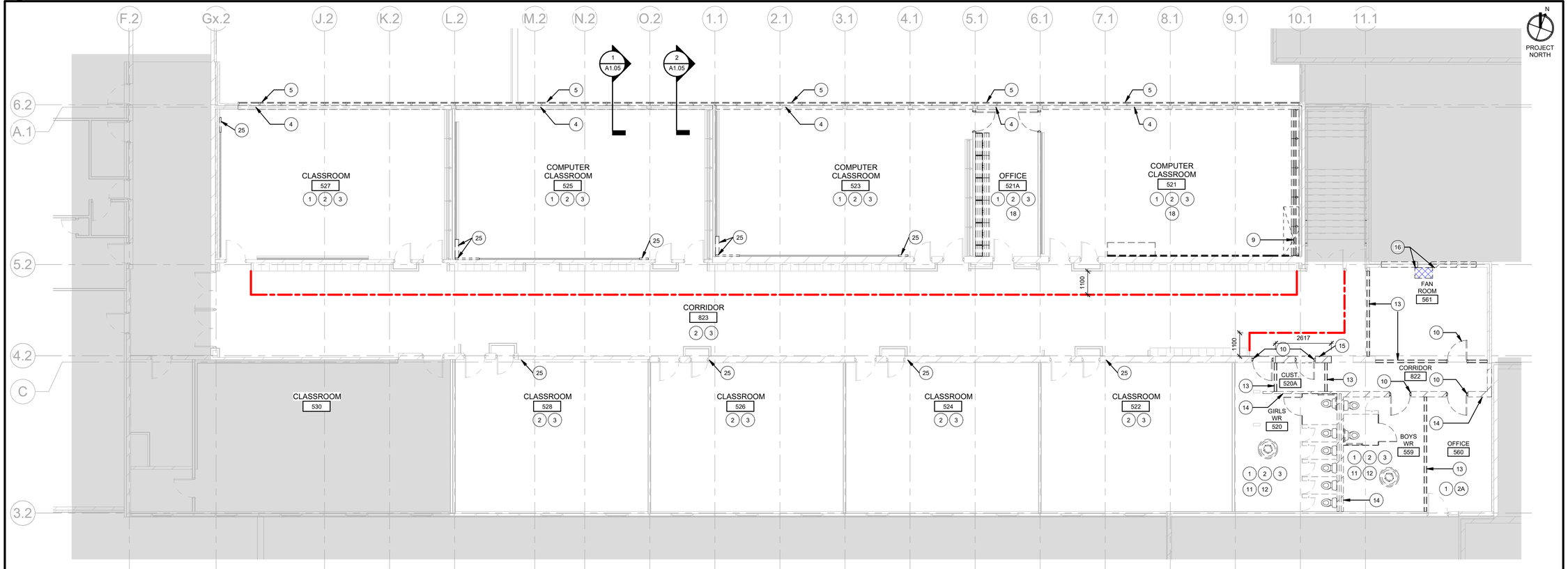
DEMOLITION KEY NOTES

No.	NOTE
1	REMOVE EXIST. VCT FLOOR FINISH c/w ADHESIVES, REMOVE EXIST. RUBBER WALL BASE c/w ADHESIVES, MAKE GOOD SURFACES TO ACCEPT NEW FINISH
2	REMOVE EXIST. ACOUSTIC CEILING TILES AND GRID c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
2A	REMOVE EXIST. GWB CEILING c/w EXIST. LIGHT FIXTURES AND ELEC. DEVICES (REFER TO ELEC.)
3	REMOVE EXISTING GYPSUM BOARD CEILING AND FURRING CHANNELS AT OWSJ, INCLUDING ALL SUPPORTS AND ATTACHMENTS. PREPARE OWSJ FOR NEW SPRAY-APPLIED FIREPROOFING AND NEW ACT CEILING.
4	REMOVE EXISTING WOOD WINDOW SILLS, INCLUDING ALL FASTENERS AND ACCESSORIES. MAKE GOOD SUBSTRATE TO RECEIVE NEW WINDOW SILLS.
5	REMOVE EXISTING ALUMINUM WINDOW, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, AND ACCESSORIES. PREPARE ROUGH OPENING TO RECEIVE NEW ALUMINUM WINDOW FRAMING.
6	REMOVE EXISTING ALUMINUM DOOR, INCLUDING ALL INTERIOR AND EXTERIOR SEALANTS, FLASHINGS, FASTENERS, HARDWARE, AND ACCESSORIES. PREPARE OPENING FOR WALL INFILL.
7	REMOVE EXIST. CONCRETE FLOOR STRUCTURE AND ALL SUPPORTS AT EXIST. DOOR LOCATION. REMOVE EXIST. GUARDRAIL AND ALL ASSOCIATED SUPPORTS. CUT BACK CONCRETE TO ADJACENT ASPHALT LEVEL. PREPARE AREA FOR NEW STAIRS TO LOWER GRADE
8A	REMOVE EXIST. CEILING ON FIRST FLOOR BELOW SECOND FLOOR WASHROOMS FOR PLUMBING MODIFICATIONS (REFER TO MECH.). SALVAGE EXISTING LIGHT FIXTURES FOR RESINSTALLATION ON EXPOSED CEILING (REFER TO ELEC.)
9	REMOVE PORTION OF SECOND FLOOR STRUCTURE TO ACCOMMODATE NEW DUCTWORK PENETRATION TO FIRST FLOOR (REFER TO STRUC.).
10	REMOVE EXISTING INTERIOR DOORS, FRAMES, HARDWARE, AND ASSOCIATED ACCESSORIES.
11	REMOVE EXISTING PLUMBING FIXTURES, INCLUDING WATER CLOSETS, WASHFOUNTAIN, & URINALS (REFER TO MECH.)
12	REMOVE EXISTING TOILET PARTITIONS, INCLUDING PANELS, DOORS, ANCHORS, AND ALL ASSOCIATED HARDWARE.
13	REMOVE EXISTING INTERIOR PARTITIONS, INCLUDING STUDS, GYPSUM BOARD, AND ASSOCIATED FINISHES.
14	REMOVE EXISTING CONCRETE BLOCK WALLS AS INDICATED ON DRAWINGS, INCLUDING ALL ASSOCIATED FINISHES.
15	REMOVE PORTION OF EXIST. CONCRETE BLOCK TO SUIT NEW OPENING.
16	REMOVE EXISTING LOUVRE IN ITS ENTIRETY (REFER TO MECH). INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING WHERE INDICATED, OR PREPARE OPENING TO RECEIVE NEW WINDOW AS SHOWN. REFER TO PROPOSED FLOOR PLANS FOR EXTENT OF WORK.
17	CAREFULLY DISCONNECT, SALVAGE, AND PROTECT ALL EXISTING STAINLESS STEEL COUNTERTOPS, WORK SURFACES, DISHWASHING STATIONS, SERVERY UNITS, SHELVING, AND ASSOCIATED STAINLESS STEEL FABRICATIONS, INCLUDING ALL REFRIGERATORS, FREEZERS, WASHER, DRYER, AND ANY OTHER LOOSE OR FIXED EQUIPMENT REQUIRED TO FACILITATE NEW FLOORING INSTALLATION.
18	REMOVE EXISTING MILLWORK IN ITS ENTIRETY, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. DISCONNECT AND COORDINATE REMOVAL OF ANY ASSOCIATED ELECTRICAL OR PLUMBING CONNECTIONS AS REQUIRED. PREPARE WALLS, FLOORS, AND ADJACENT SURFACES TO RECEIVE NEW MILLWORK, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, LEVEL, AND READY FOR INSTALLATION.
18A	REMOVE PORTION OF EXISTING MILLWORK, c/w ALL ASSOCIATED FASTENERS AND SUPPORTS. MAKE GOOD SURFACES TO ACCEPT NEW FINISH.
19	CAREFULLY DISCONNECT AND REMOVE EXISTING STAINLESS STEEL KITCHEN EXHAUST HOOD IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED SUPPORTS, BRACKETS, FASTENERS, AND CONNECTIONS. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR DISCONNECTION AND ANY OTHER ASSOCIATED SERVICESS. REMOVE EXISTING STAINLESS STEEL WALL PROTECTION/PANELS BELOW AND ADJACENT TO HOOD AS REQUIRED. PREPARE WALLS AND CEILING SURFACES TO RECEIVE NEW NFPA-COMPLIANT HOOD AND NEW STAINLESS STEEL WALL PROTECTION, INCLUDING PATCHING, MAKING GOOD, AND LEAVING SURFACES CLEAN, SMOOTH, AND READY TO ACCEPT NEW FINISHES.
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25	MODIFY EXISTING TACKBOARD/CHALKBOARD FRAME TO SUIT INSTALLATION OF NEW CONSOLE UNIT/TEACHERS CLOSET. REFER TO INTERIOR ELEVATIONS FOR CONSOLE UNIT LOCATION.

DEMOLITION LEGEND

APPLICABLE TO ALL DRAWINGS

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE DEMOLISHED
	BREAK OUT NEW OPENINGS IN EXISTING WALL
	EXISTING DOOR TO REMAIN
	REMOVE EXISTING DOOR & FRAME, SALVAGE ALL DOOR HARDWARE. (HINGES, LOCKSETS, & CLOSURES)
	REMOVE, RELOCATE OR SALVAGE EXISTING MILLWORK c/w SINKS, FITTINGS & ACCESSORIES AS INDICATED
NOTE	INDICATES EXTENT OF AREA OF REMOVAL OR SALVAGE WORK SCOPE AS NOTED
	INDICATES REMOVAL AREA OF FLOOR SLAB TO SUIT NEW STRUCTURAL WORK. (REFER TO STRUC.)
	REMOVE, RELOCATE, OR SALVAGE EXISTING ELECTRICAL PANEL AS INDICATED, COORDINATE WITH ELECTRICAL DRAWINGS.
	INDICATES TEMPORARY CONSTRUCTION MEASURES INCLUDING HOARDING WALL AND CONSTRUCTION ACCESS.



1 A1.03 ENLARGED SECOND FLOOR - 500 WING DEMOLITION

0 1 2.5 5 10 m
1:100

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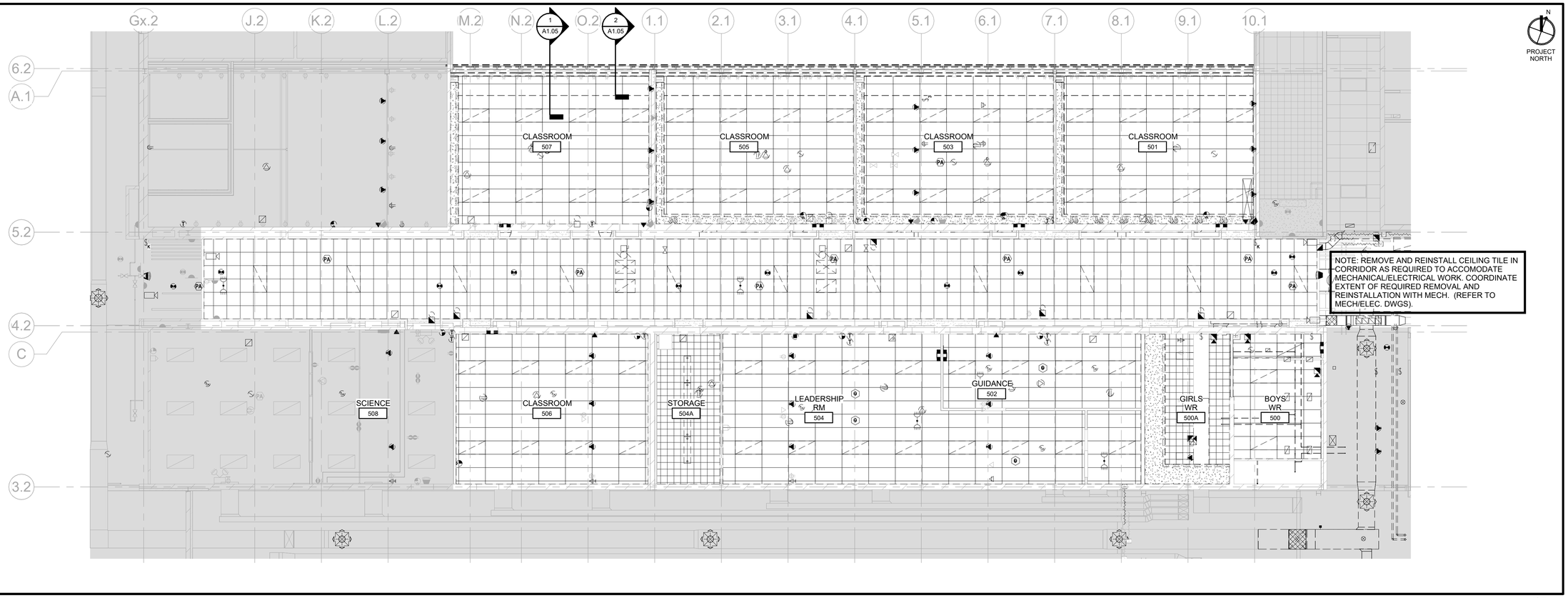
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

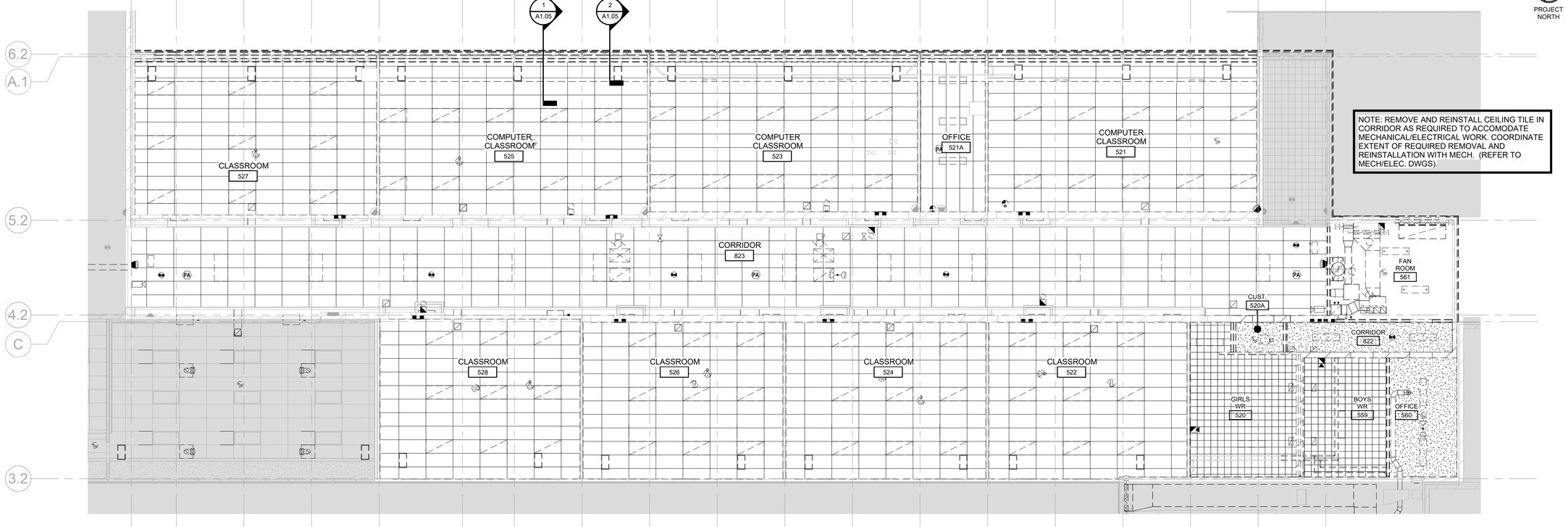
ENLARGED DEMOLITION FLOOR PLANS

A1.03



1 A1.04 ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - 500 WING DEMOLITION

0 1 2.5 5 10 m
1:100



2 A1.04 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - 500 WING DEMOLITION

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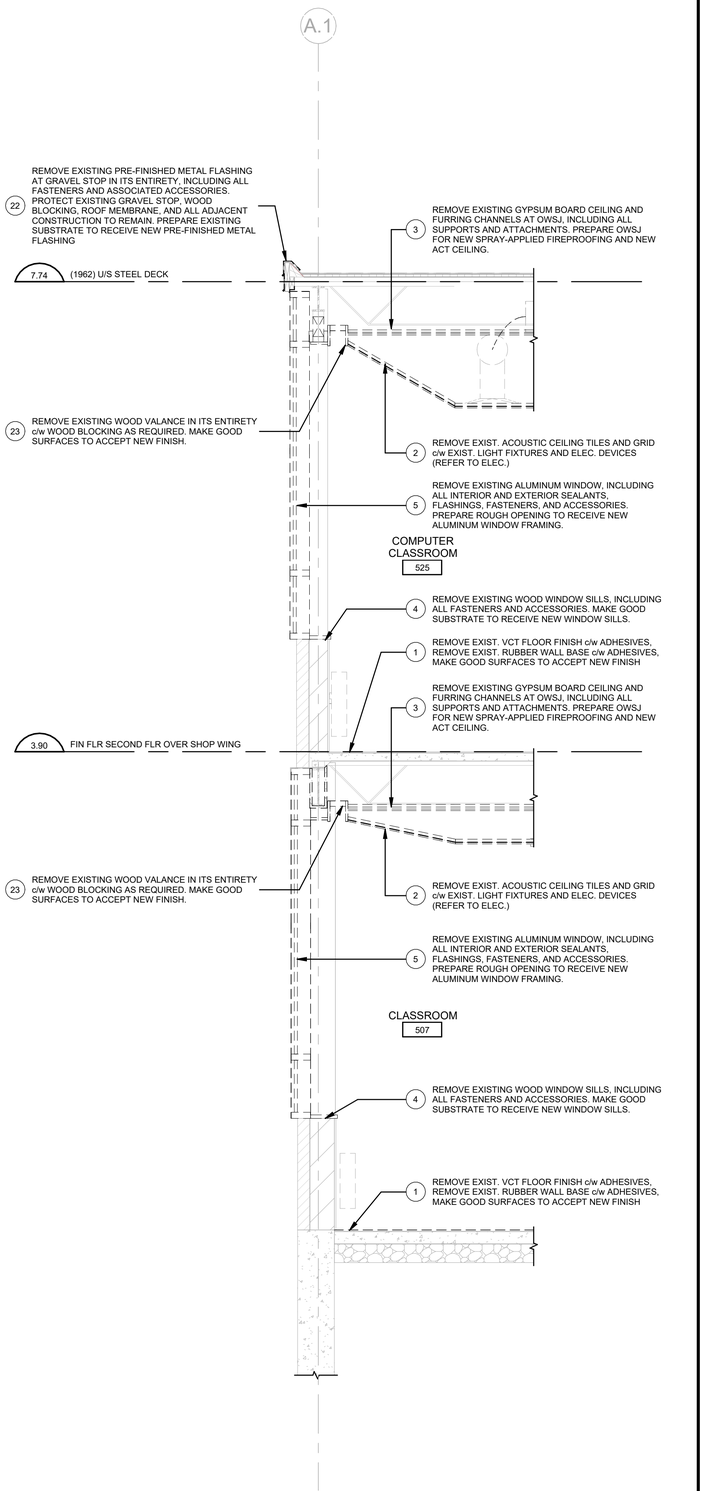
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

DEMOLITION REFLECTED CEILING PLAN

Plot Date:	2026-03-27
Drawn By:	CAI
Project No.:	1167A

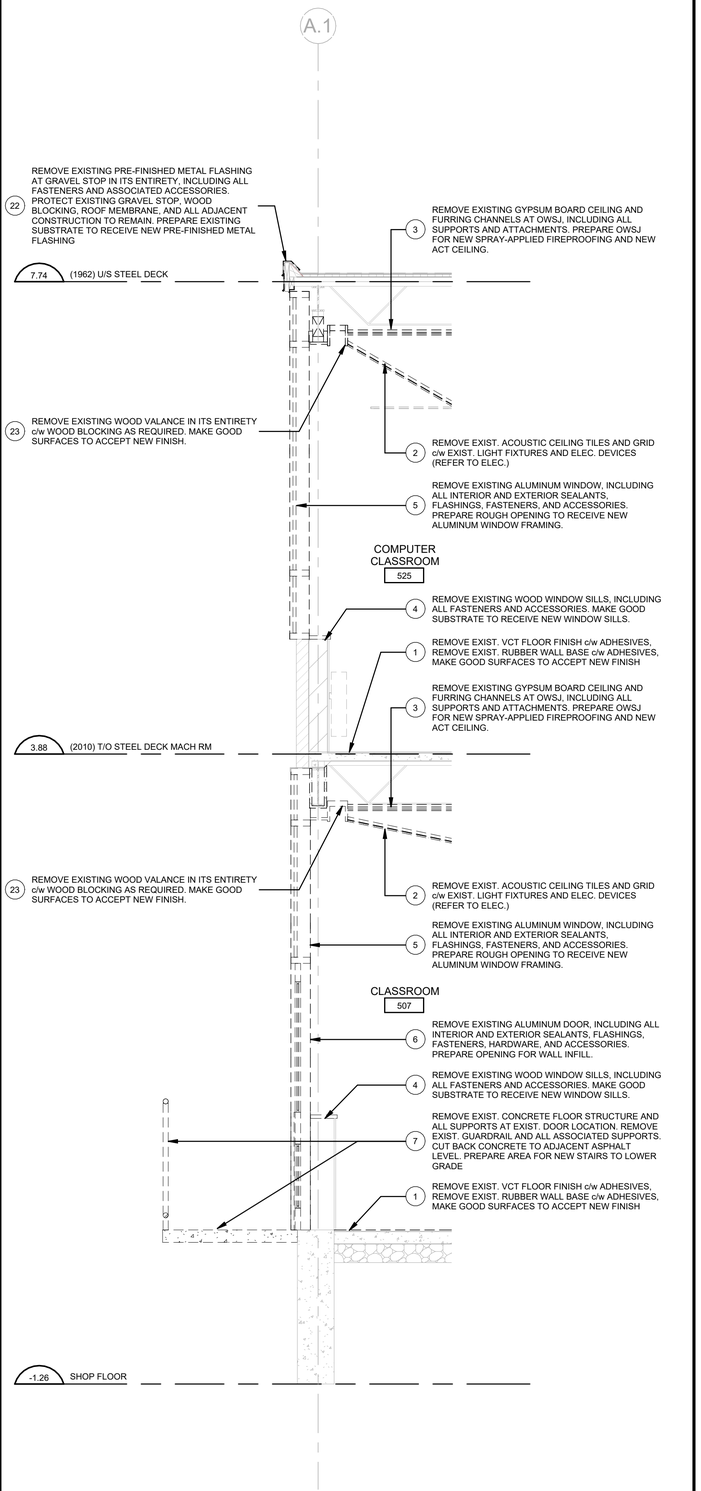
A1.04



1 A1.05 WALL SECTION - 500 WING DEMOLITION

0 250 500 1000 2500 mm

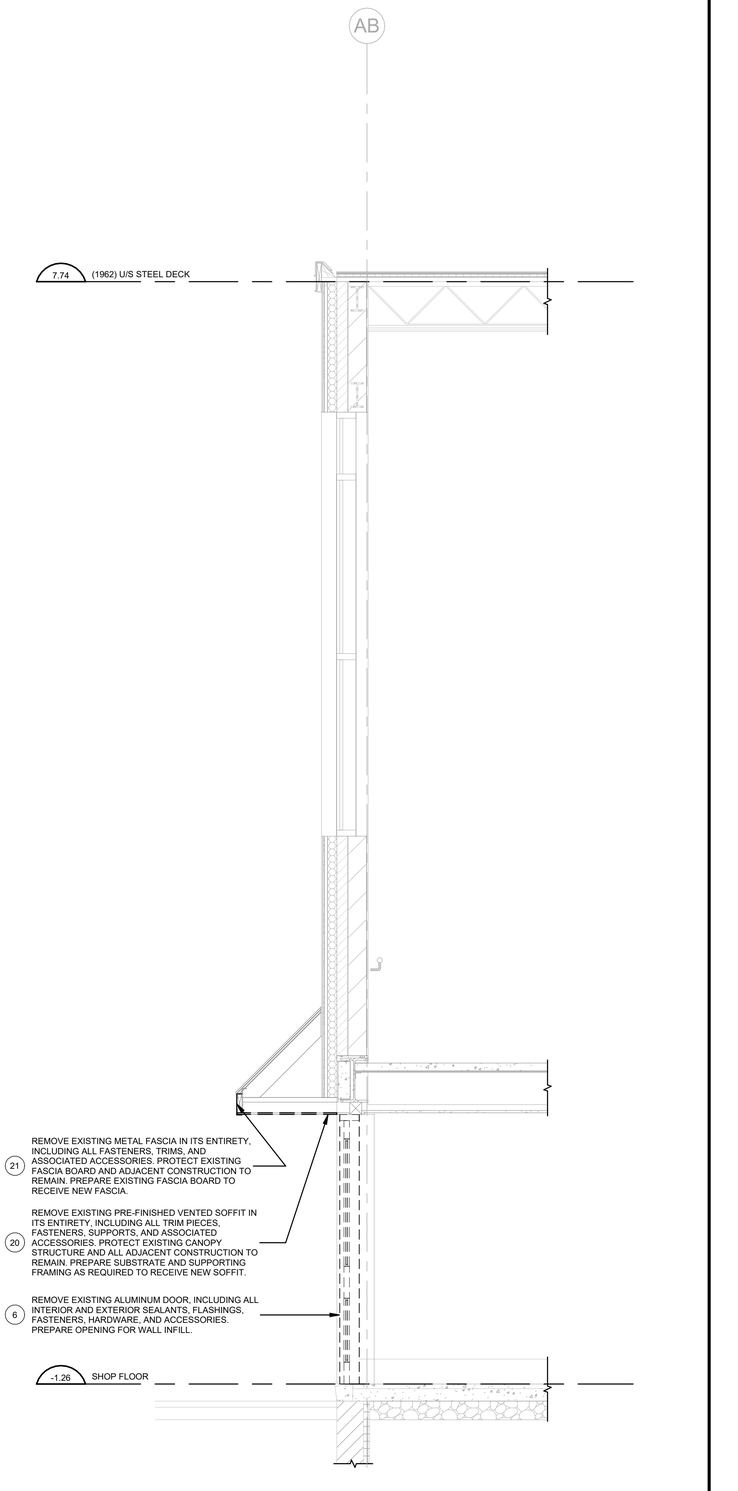
1:25



2 A1.05 WALL SECTION - 500 WING DEMOLITION @ DOOR

0 250 500 1000 2500 mm

1:25



3 A1.05 WALL SECTION - STAIR 908 DEMOLITION

0 250 500 1000 2500 mm

1:25

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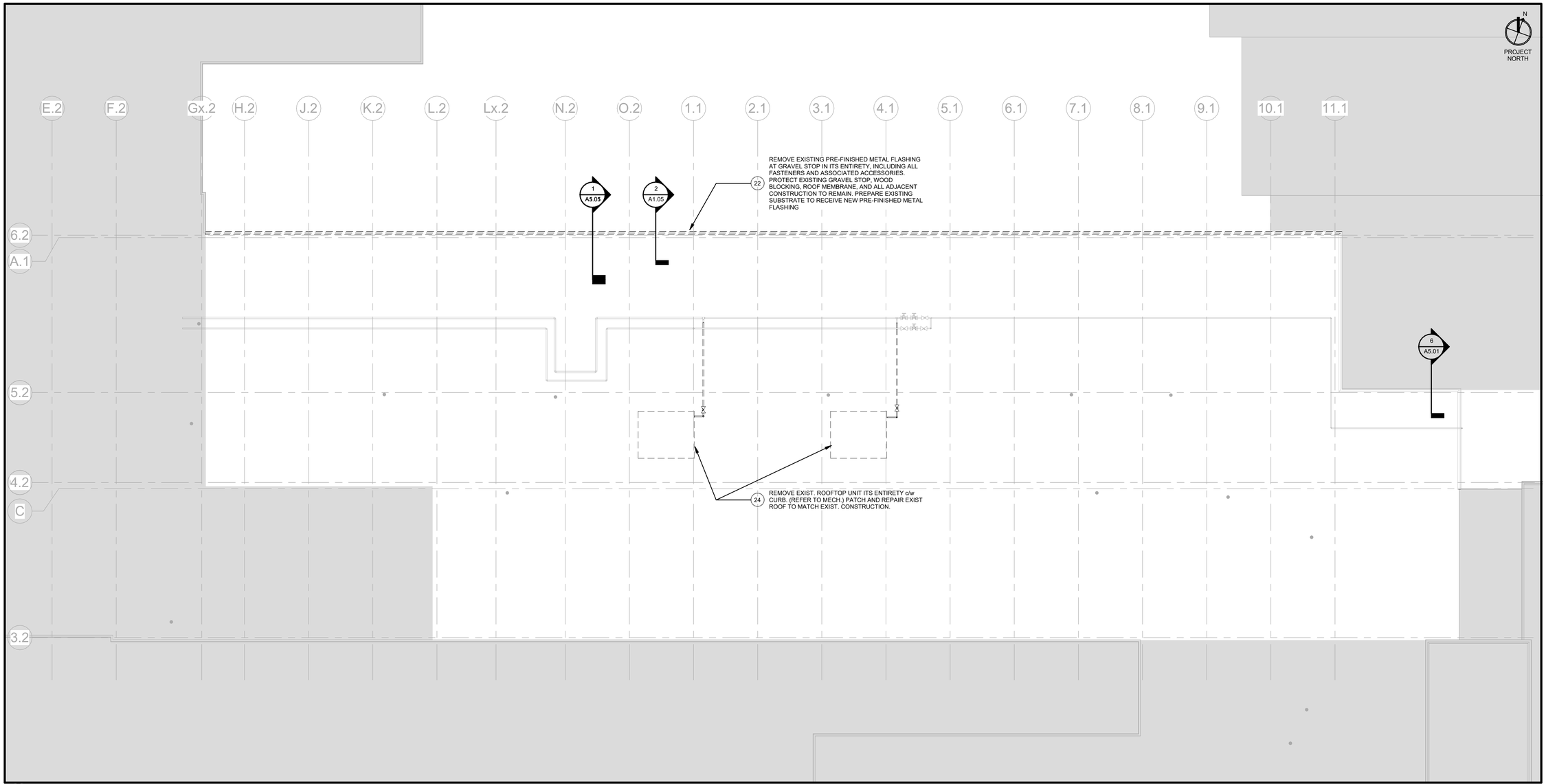
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1200 Snyder's Rd W, Baden, ON N3A 1A4

Plot Date: 2026-03-27
Drawn By: CAI
Project No.: 1167A

DEMOLITION WALL SECTIONS

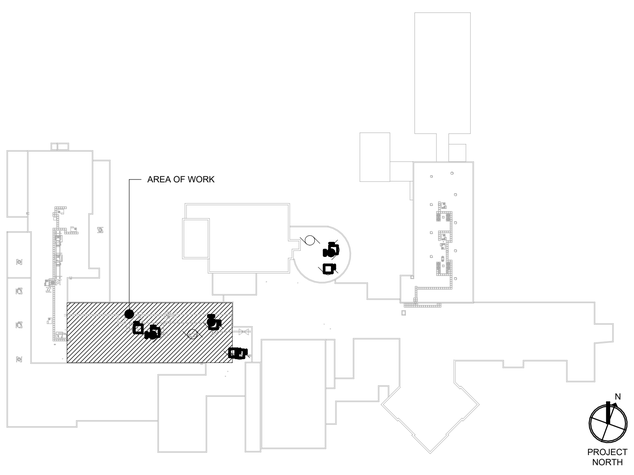
A1.05



1 A1.06 ENLARGED DEMOLITION ROOF PLAN - 500 WING

0 1 2.5 5 10 m
1:100

KEY PLAN - N.T.S.



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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

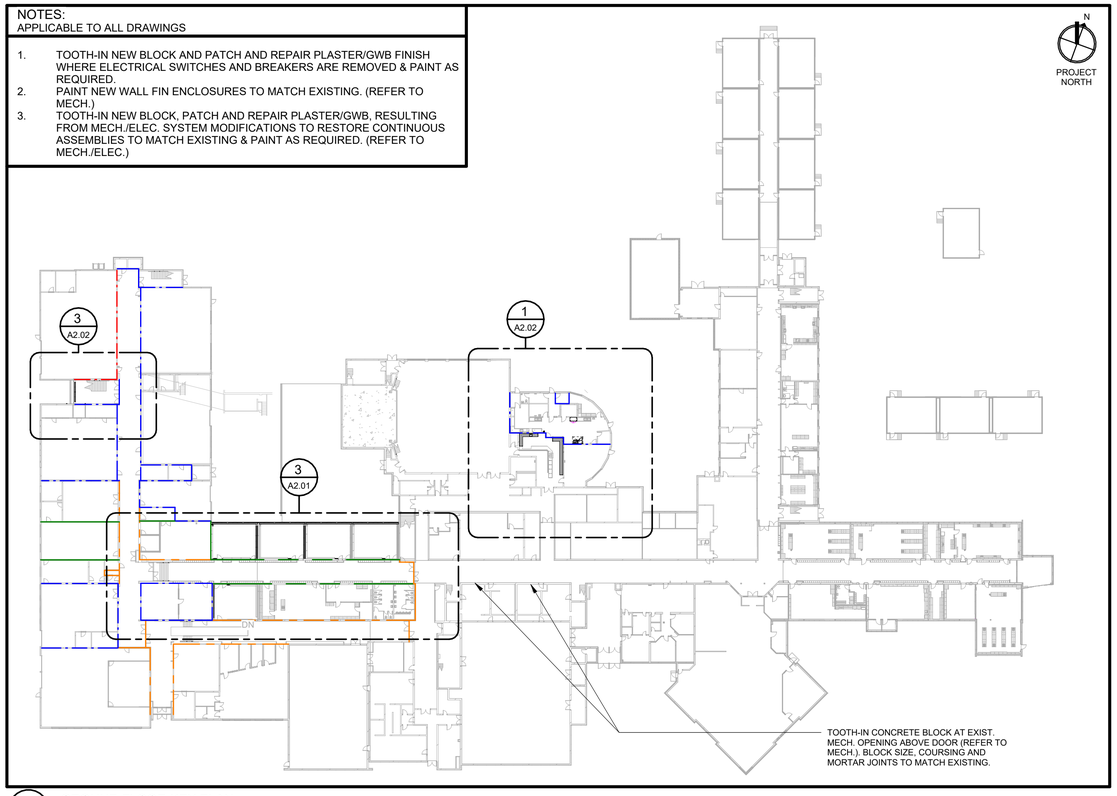
DEMOLITION ROOF PLAN

Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

A1.06

NOTES:
APPLICABLE TO ALL DRAWINGS

1. TOOTH-IN NEW BLOCK AND PATCH AND REPAIR PLASTER/GWB FINISH WHERE ELECTRICAL SWITCHES AND BREAKERS ARE REMOVED & PAINT AS REQUIRED.
2. PAINT NEW WALL FIN ENCLOSURES TO MATCH EXISTING. (REFER TO MECH.)
3. TOOTH-IN NEW BLOCK, PATCH AND REPAIR PLASTER/GWB, RESULTING FROM MECH./ELEC. SYSTEM MODIFICATIONS TO RESTORE CONTINUOUS ASSEMBLIES TO MATCH EXISTING & PAINT AS REQUIRED. (REFER TO MECH./ELEC.)



1 A2.01 GROUND FLOOR KEY PLAN

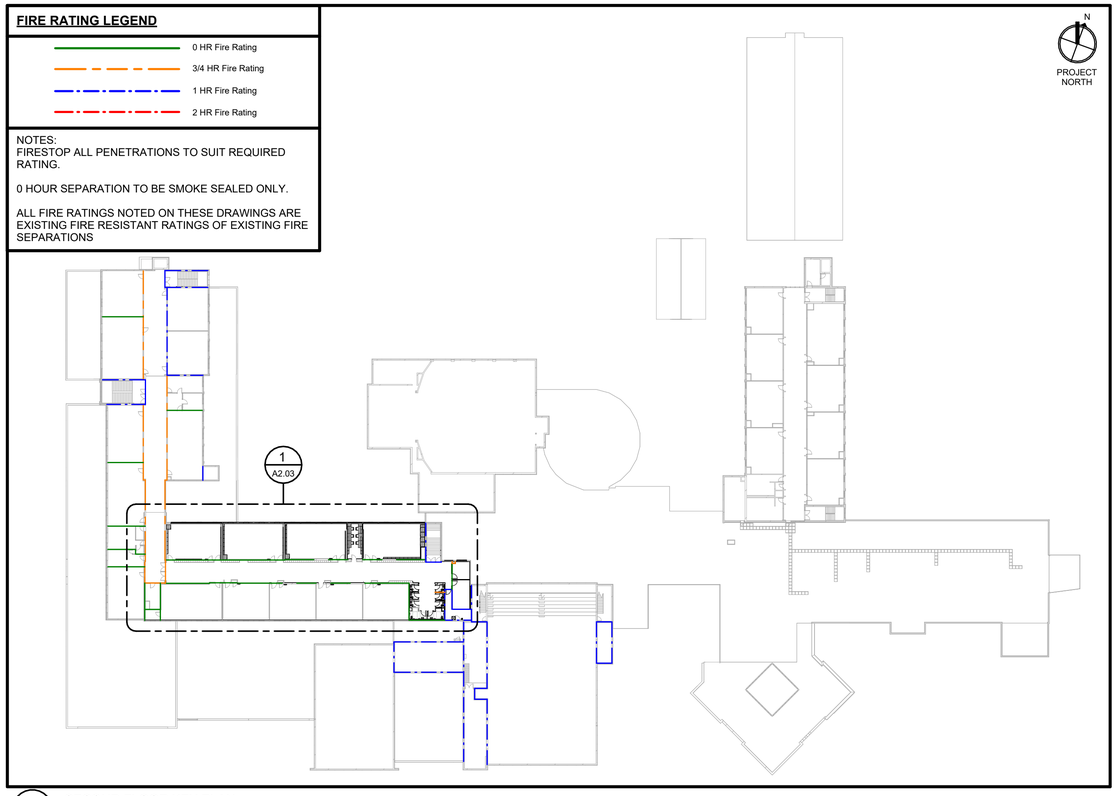
FIRE RATING LEGEND

- 0 HR Fire Rating
- 3/4 HR Fire Rating
- 1 HR Fire Rating
- 2 HR Fire Rating

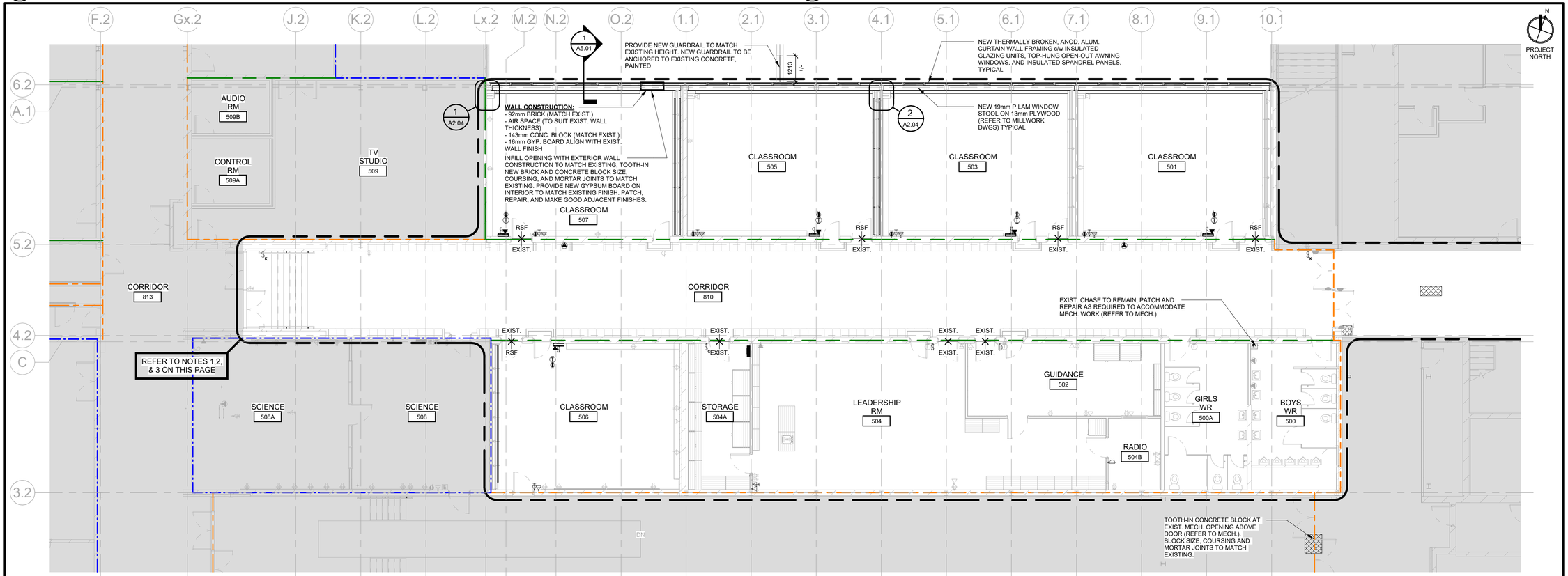
NOTES:
FIRESTOP ALL PENETRATIONS TO SUIT REQUIRED RATING.

0 HOUR SEPARATION TO BE SMOKE SEALED ONLY.

ALL FIRE RATINGS NOTED ON THESE DRAWINGS ARE EXISTING FIRE RESISTANT RATINGS OF EXISTING FIRE SEPARATIONS



2 A2.01 SECOND FLOOR KEY PLAN



3 A2.01 ENLARGED GROUND FLOOR - 500 WING

0 1 2.5 5 10 m
1:100

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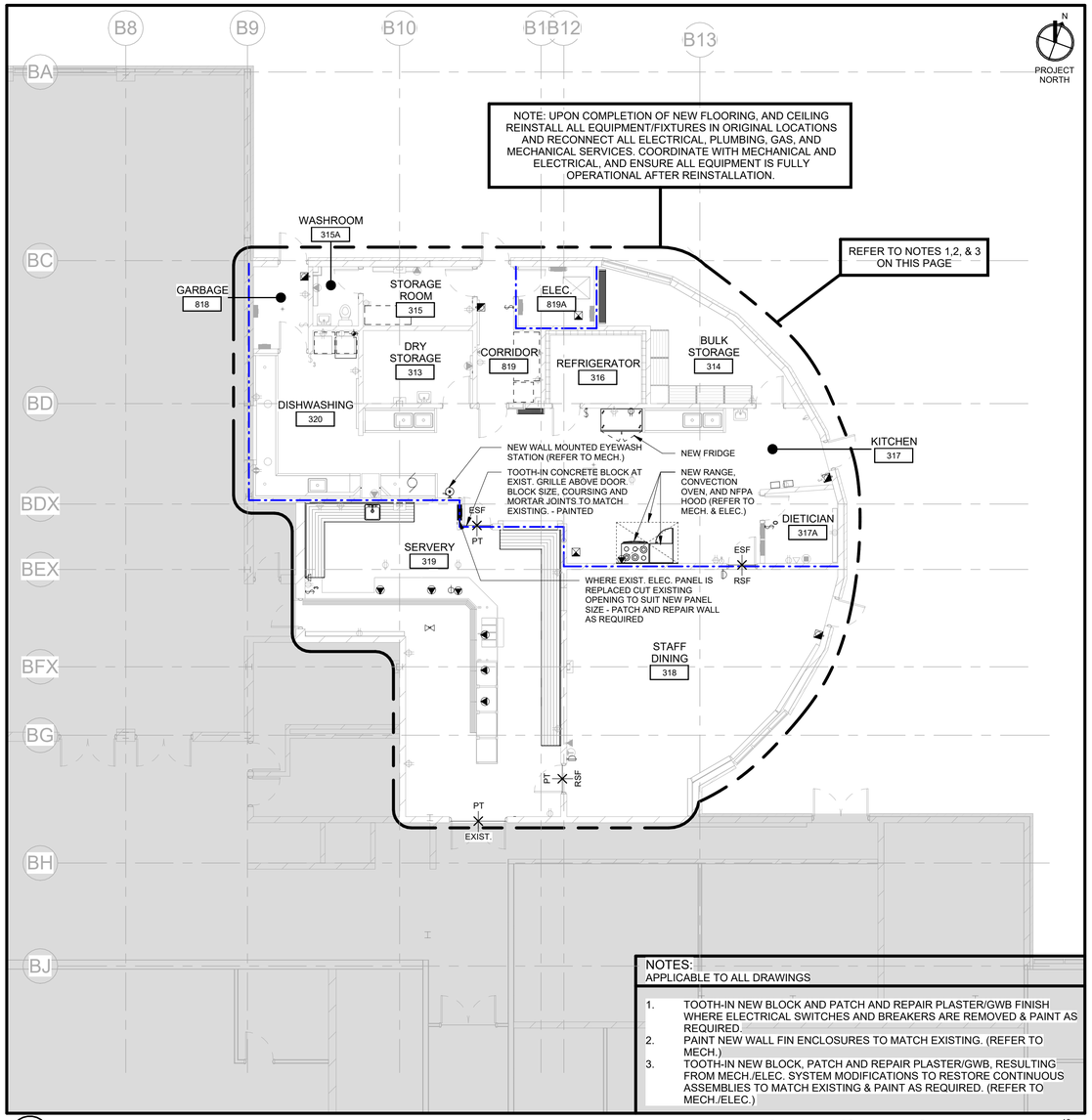
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1200 Snyder's Rd W, Baden, ON N3A 1A4

Plot Date:	2026-03-27
Drawn By:	CAI
Project No.:	1167A

KEY PLANS, PARTIAL GROUND FLOOR PLAN

A2.01

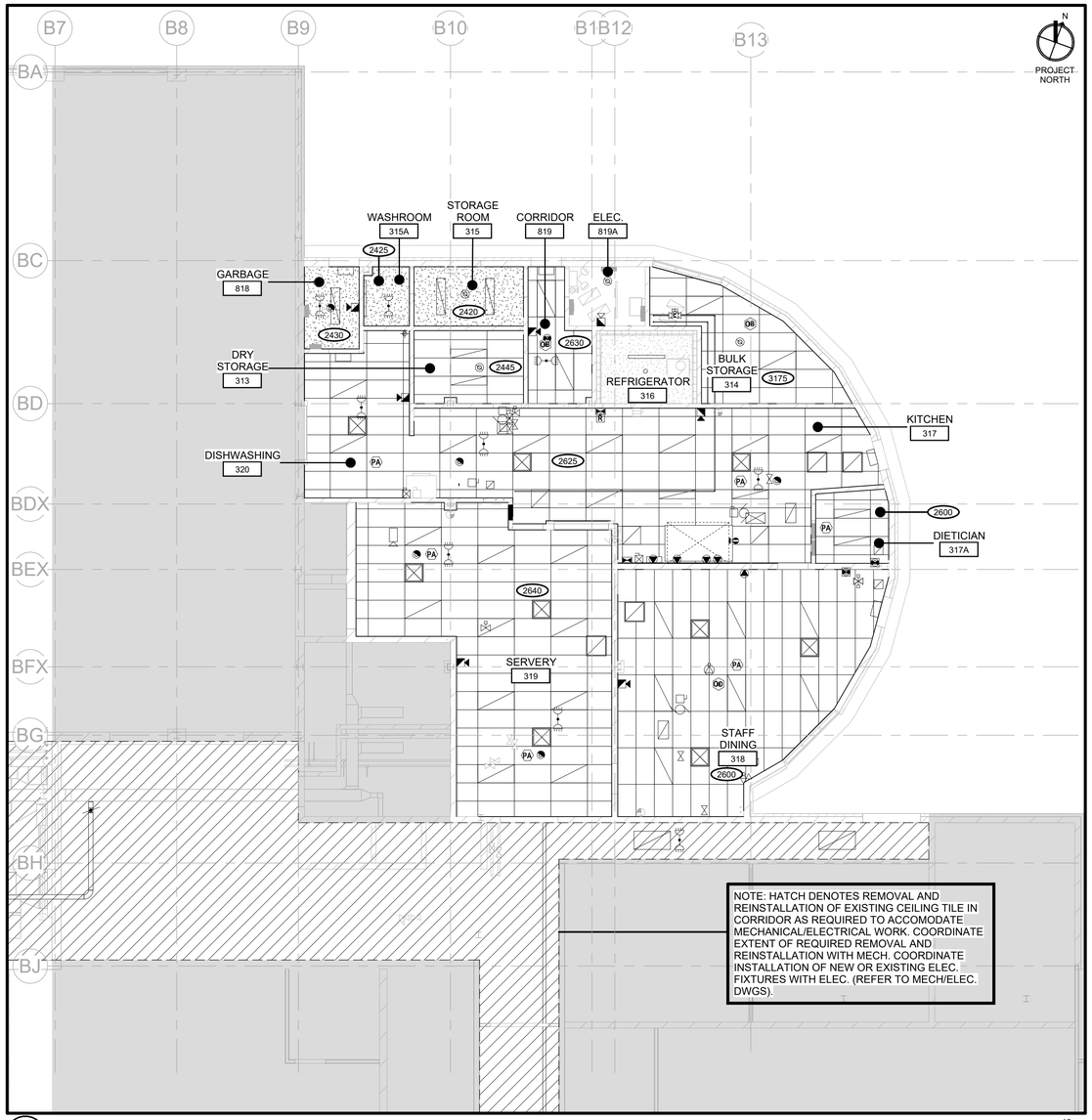


NOTES:
APPLICABLE TO ALL DRAWINGS

1. TOOTH-IN NEW BLOCK AND PATCH AND REPAIR PLASTER/GWB FINISH WHERE ELECTRICAL SWITCHES AND BREAKERS ARE REMOVED & PAINT AS REQUIRED.
2. PAINT NEW WALL FIN ENCLOSURES TO MATCH EXISTING. (REFER TO MECH.)
3. TOOTH-IN NEW BLOCK, PATCH AND REPAIR PLASTER/GWB, RESULTING FROM MECH./ELEC. SYSTEM MODIFICATIONS TO RESTORE CONTINUOUS ASSEMBLIES TO MATCH EXISTING & PAINT AS REQUIRED. (REFER TO MECH./ELEC.)

1 / A2.02 ENLARGED GROUND FLOOR - CAFETERIA KITCEHN

0 1 2.5 5 10 m
1:100

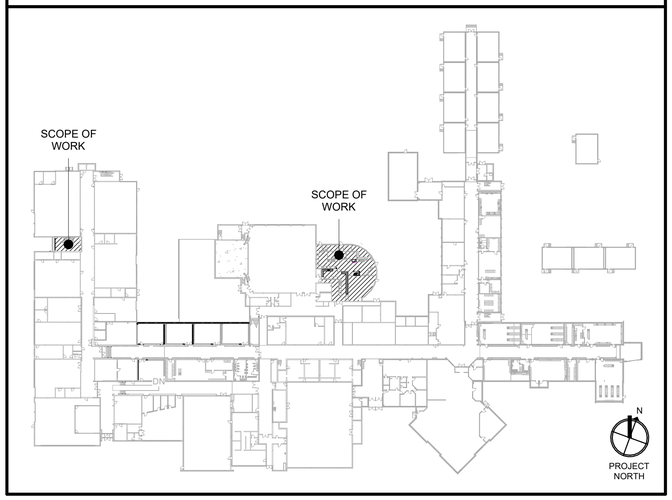


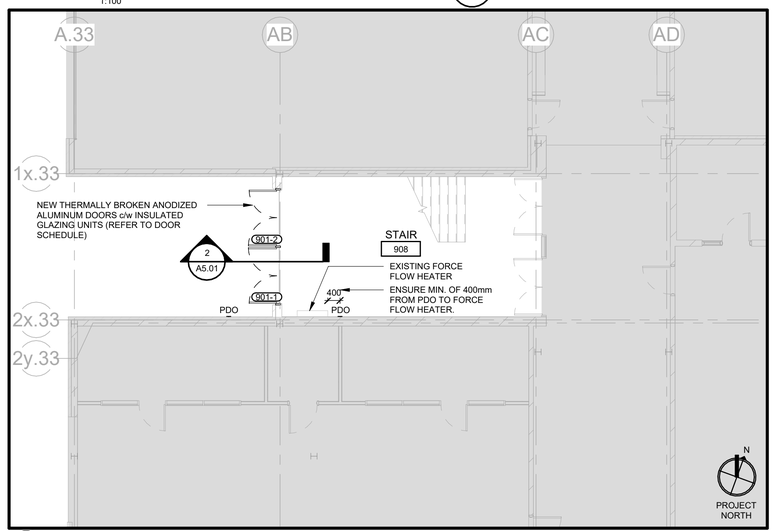
NOTE: HATCH DENOTES REMOVAL AND REINSTALLATION OF EXISTING CEILING TILE IN CORRIDOR AS REQUIRED TO ACCOMODATE MECHANICAL/ELECTRICAL WORK. COORDINATE EXTENT OF REQUIRED REMOVAL AND REINSTALLATION WITH MECH. COORDINATE INSTALLATION OF NEW OR EXISTING ELEC. FIXTURES WITH ELEC. (REFER TO MECH/ELEC. DWGS).

2 / A2.02 ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - CAFETERIA KITCHEN

0 1 2.5 5 10 m
1:100

KEY PLAN - N.T.S.





3 / A2.02 ENLARGED GROUND FLOOR PLAN - STAIR 908

0 1 2.5 5 10 m
1:100

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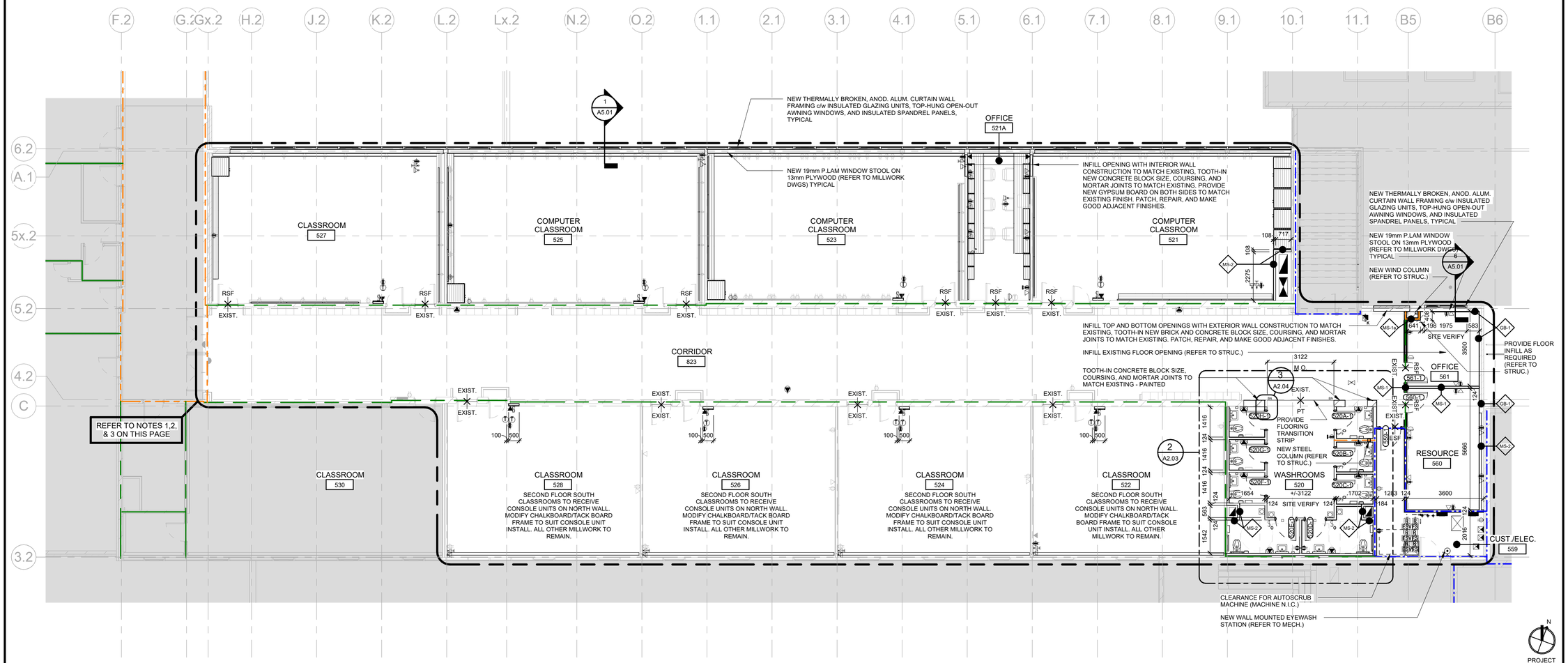
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

ENLARGED FLOOR PLAN & REFLECTED CEILING PLAN

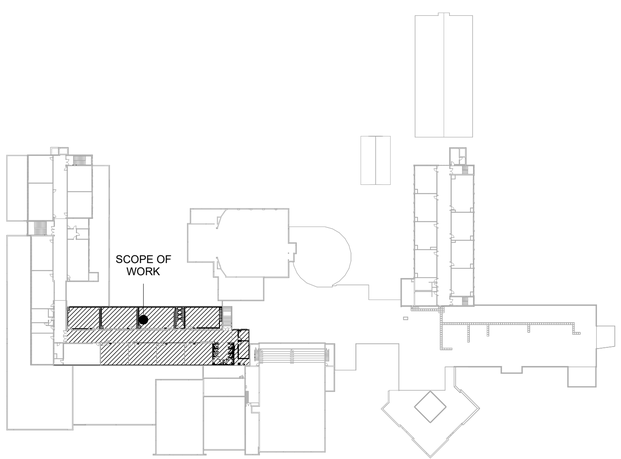
A2.02



1 A2.03 ENLARGED SECOND FLOOR PLAN - 500 WING

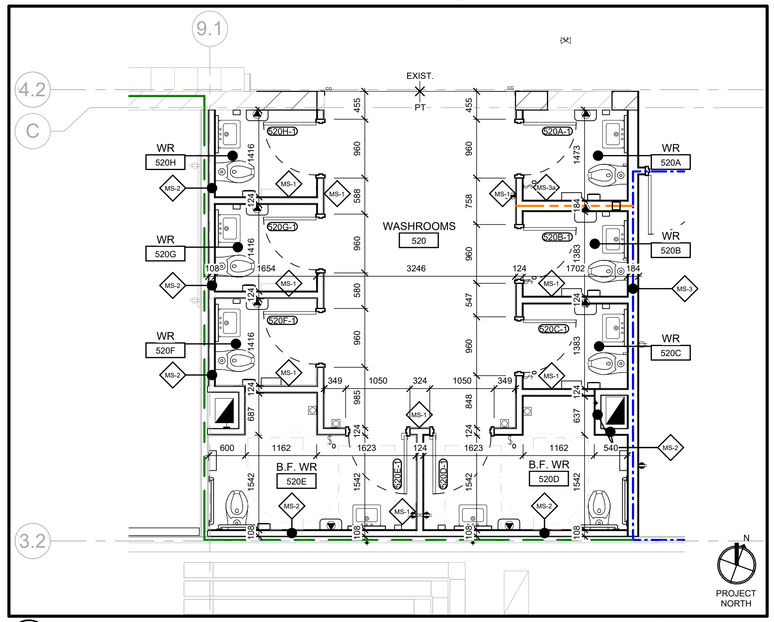
0 1 2.5 5 10 m
1:100

KEY PLAN - N.T.S.



NOTES:
APPLICABLE TO ALL DRAWINGS

1. TOOTH-IN NEW BLOCK AND PATCH AND REPAIR PLASTER/GWB FINISH WHERE ELECTRICAL SWITCHES AND BREAKERS ARE REMOVED & PAINT AS REQUIRED.
2. PAINT NEW WALL FIN ENCLOSURES TO MATCH EXISTING. (REFER TO MECH.)
3. TOOTH-IN NEW BLOCK, PATCH AND REPAIR PLASTER/GWB, RESULTING FROM MECH./ELEC. SYSTEM MODIFICATIONS TO RESTORE CONTINUOUS ASSEMBLIES TO MATCH EXISTING & PAINT AS REQUIRED. (REFER TO MECH./ELEC.)



2 A2.03 ENLARGED SECOND FLOOR PLAN - 500 WING - WASHROOMS

0 500 1000 2000mm
1:50

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CORNERSTONE ARCHITECTURE

2026-03-27	ISSUED FOR BID

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo-Oxford District Secondary School

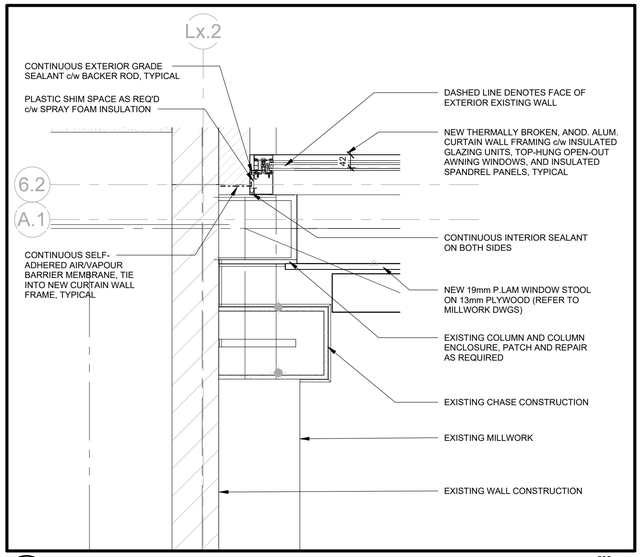
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

ENLARGED FLOOR PLANS

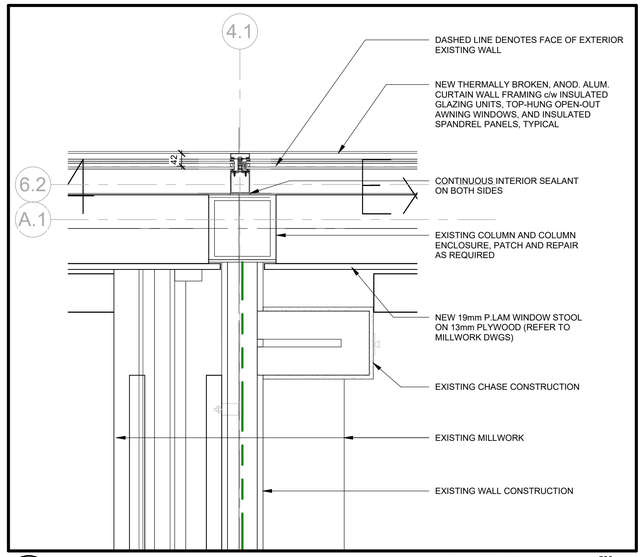
Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

A2.03



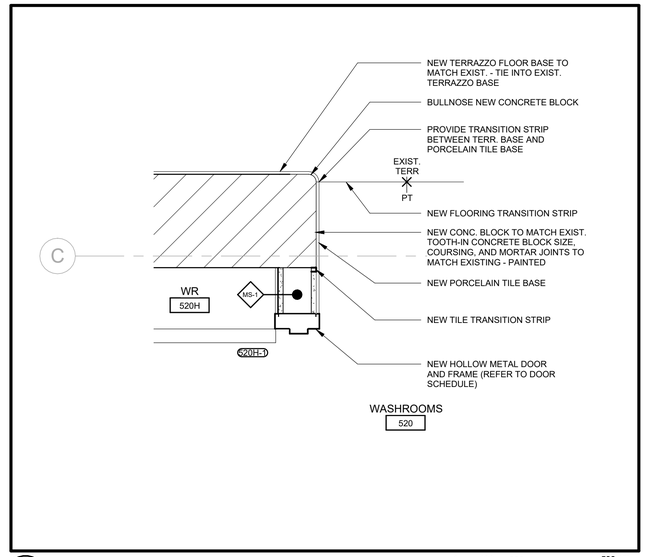
1 A2.04 PLAN DETAIL

0 100 200 500mm
1:10



2 A2.04 PLAN DETAIL

0 100 200 500mm
1:10



3 A2.04 PLAN DETAIL

0 100 200 500mm
1:10

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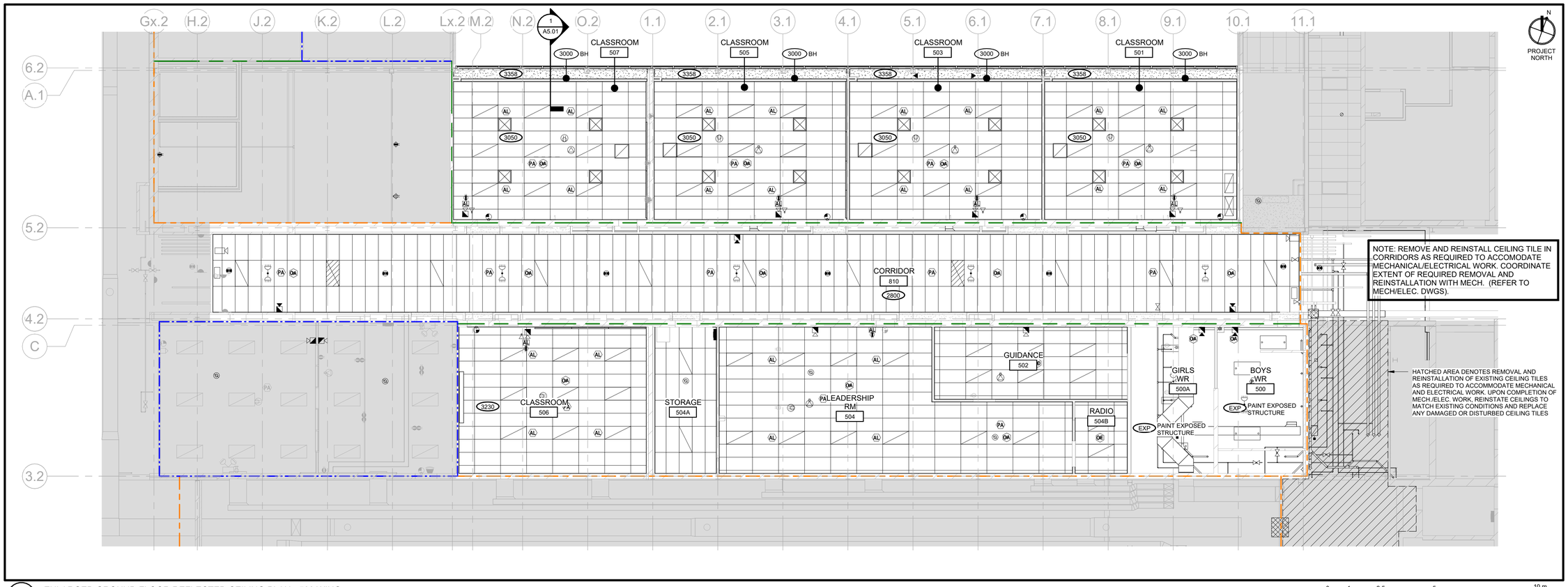
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

PLAN DETAILS

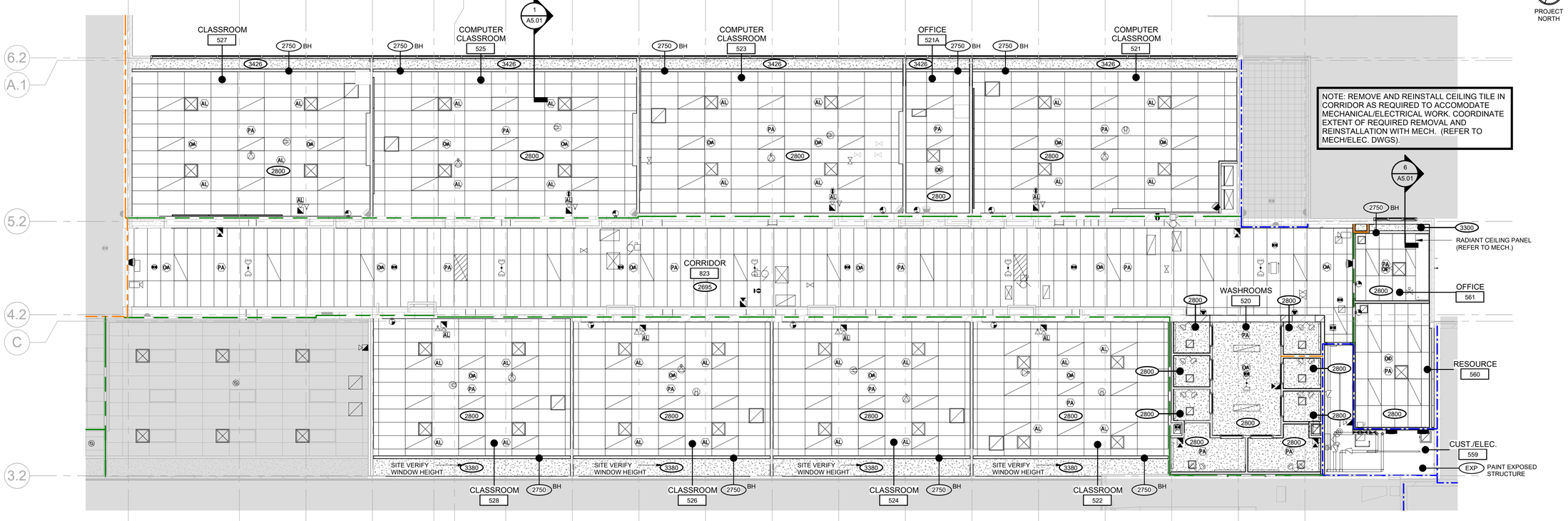
Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

A2.04



1 A3.01 ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - 500 WING

1:100



2 A3.01 ENLARGED SECOND FLOOR REFLECTED CEILING PLAN - 500 WING

1:100

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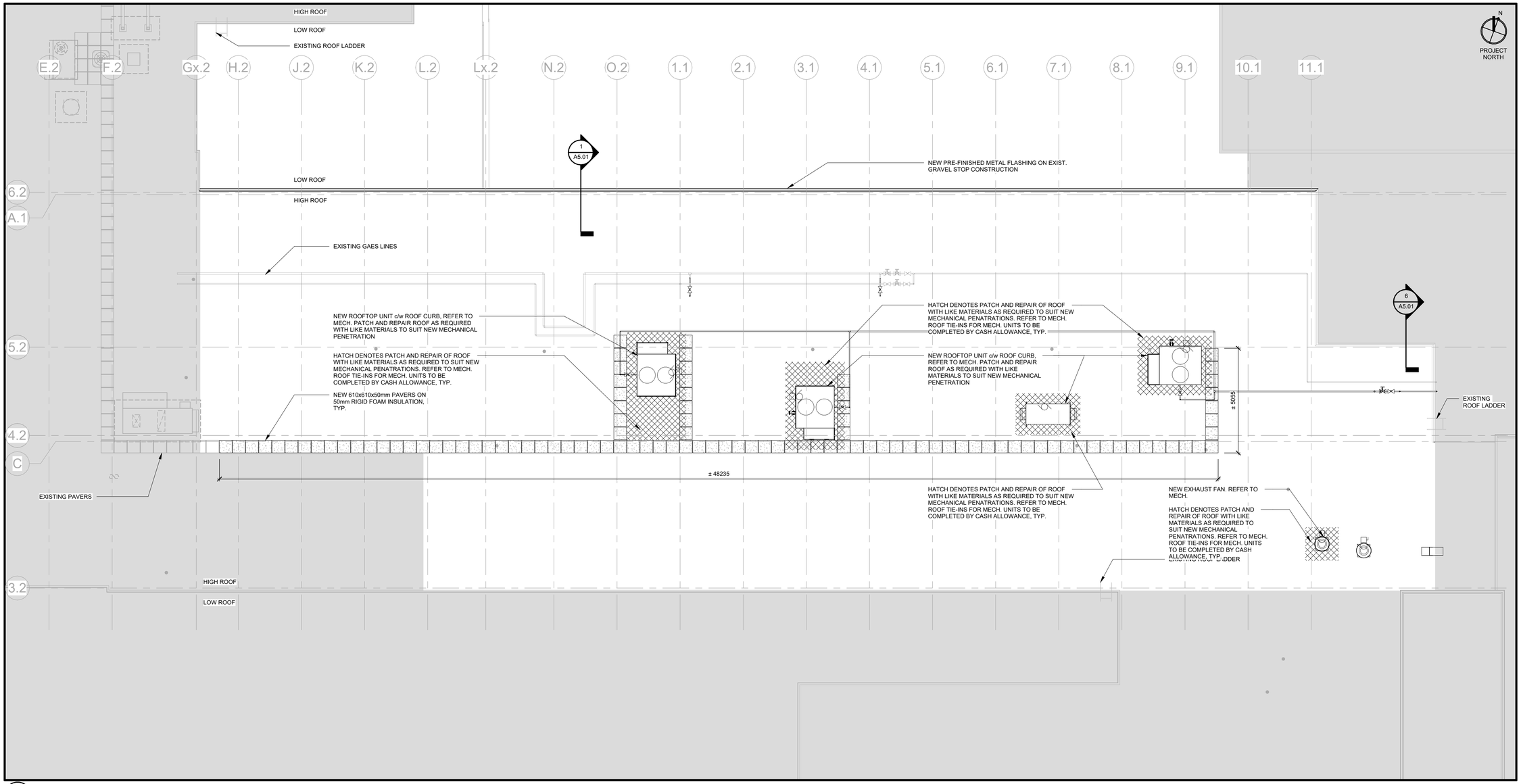
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

REFLECTED CEILING PLAN

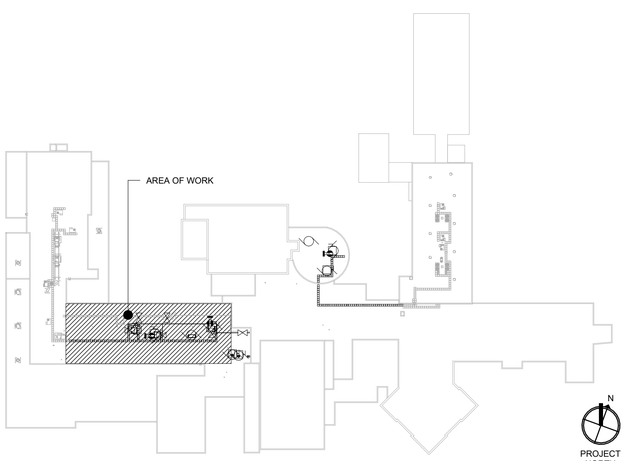
A3.01



1 / A3.02 ENLARGED ROOF PLAN - 500 WING

0 1 2.5 5 10 m
1:100

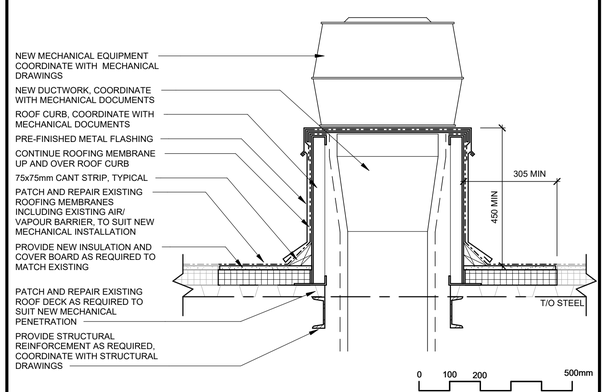
KEY PLAN - N.T.S.



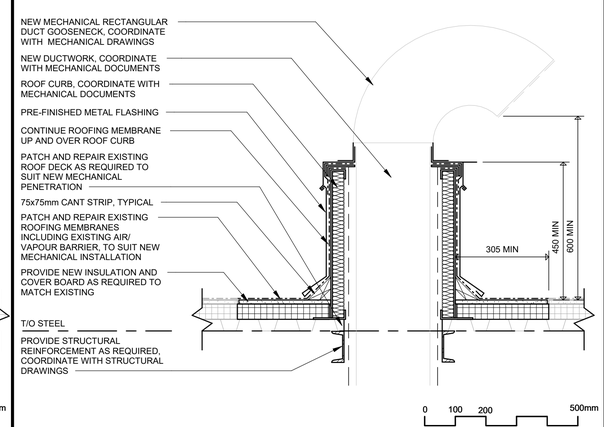
GENERAL ROOF PLAN NOTES

1. CONTRACTOR TO VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
2. CONTRACTOR TO COORDINATE DEMOLITION WITH ASBESTOS AUDIT. REFER TO SPECIFICATIONS.
3. REFER TO FLOOR PLANS FOR FIRE SEPARATION LOCATIONS.
4. REFER TO SPECIFICATION FOR ROOF CONSTRUCTION AND PATCHING.
5. COORDINATE ALL ROOFTOP MECHANICAL EQUIPMENT AND ROOF DRAINS WITH MECHANICAL DOCUMENTS.
6. PROVIDE CRICKETS AT ALL NEW ROOF EXHAUST LOCATIONS. CONFIRM QUANTITIES WITH MECHANICAL DRAWINGS.
7. WHERE SLOPED INSULATION IS REQUIRED FOR PATCHING OR CRICKETS, SLOPE TO BE 1.5% MINIMUM.
8. SITE CONFIRM QUANTITY OF CONCRETE ROOF PAVERS REQUIRED.
9. CONTRACTOR TO RESTORE ANY ROOF AREAS DISTURBED BY CONSTRUCTION TO EXISTING CONDITION.
10. CONTRACTOR TO REMOVE AND DISPOSE OF ALL LOOSE DEBRIS ON ROOF.

NEW MECHANICAL PENETRATION



NEW MECHANICAL GOOSENECK



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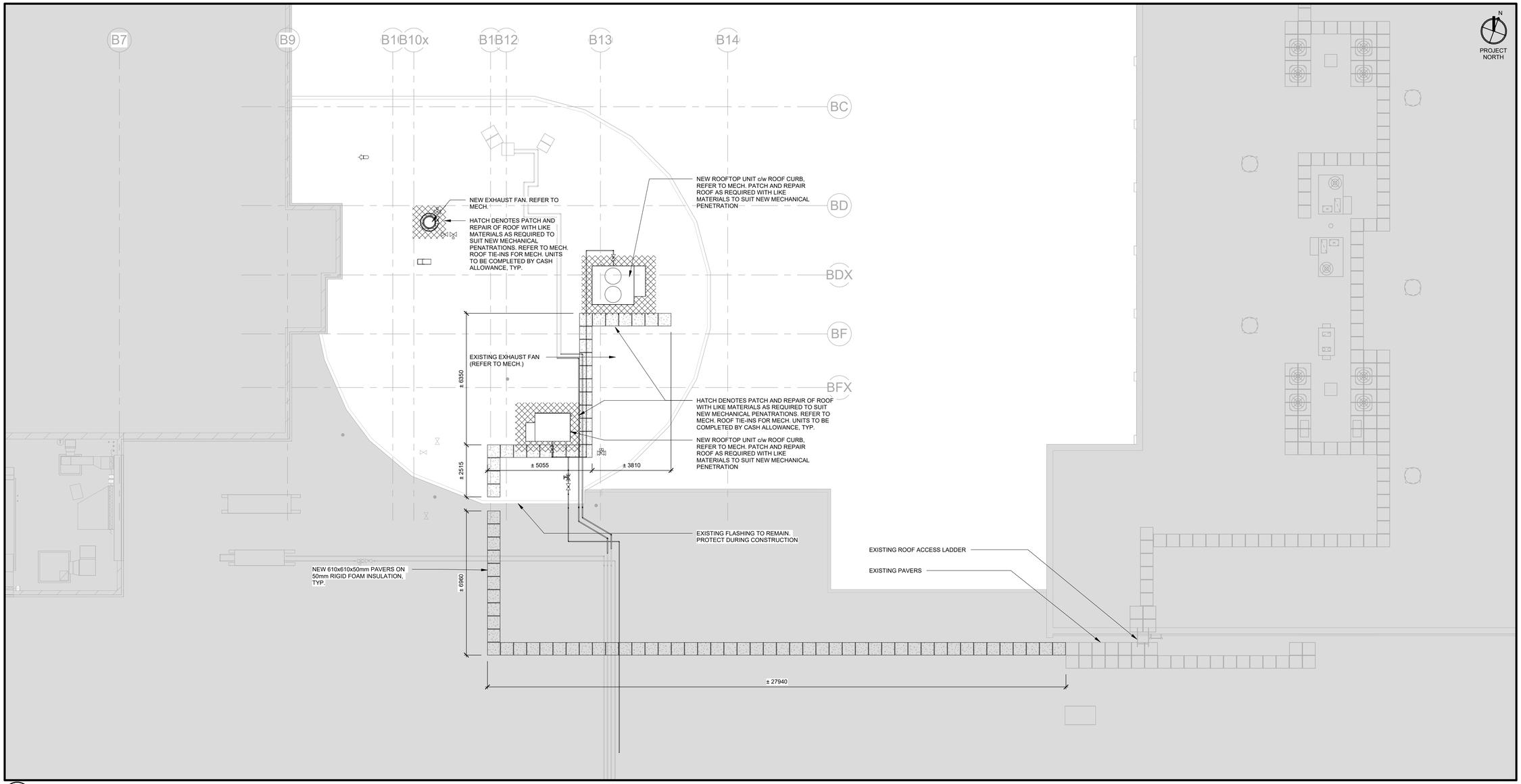
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

ENLARGED ROOF PLAN

Plot Date:	2026-03-27
Drawn By:	CAI
Project No.:	1167A

A3.02

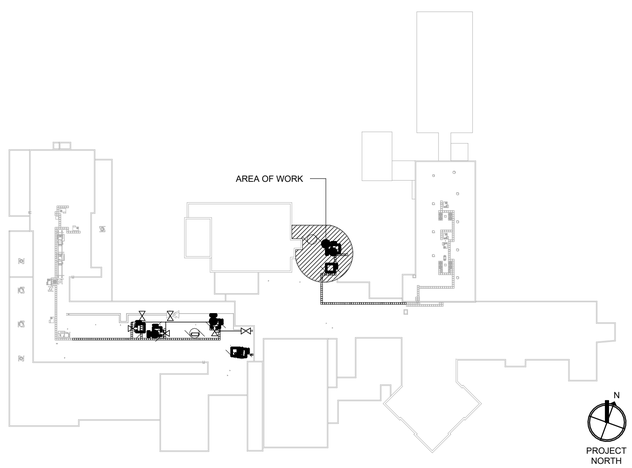


1 / A3.03 ENLARGED ROOF PLAN - CAFETERIA KITCHEN

0 1 2.5 5 10 m

1:100

KEY PLAN - N.T.S.



GENERAL ROOF PLAN NOTES

1. CONTRACTOR TO VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING.
2. CONTRACTOR TO COORDINATE DEMOLITION WITH ASBESTOS AUDIT. REFER TO SPECIFICATIONS.
3. REFER TO FLOOR PLANS FOR FIRE SEPARATION LOCATIONS.
4. REFER TO SPECIFICATION FOR ROOF CONSTRUCTION AND PATCHING.
5. COORDINATE ALL ROOFTOP MECHANICAL EQUIPMENT AND ROOF DRAINS WITH MECHANICAL DOCUMENTS.
6. PROVIDE CRICKETS AT ALL NEW ROOF EXHAUST LOCATIONS. CONFIRM QUANTITIES WITH MECHANICAL DRAWINGS.
7. WHERE SLOPED INSULATION IS REQUIRED FOR PATCHING OR CRICKETS, SLOPE TO BE 1.5% MINIMUM.
8. SITE CONFIRM QUANTITY OF CONCRETE ROOF PAVERS REQUIRED.
9. CONTRACTOR TO RESTORE ANY ROOF AREAS DISTURBED BY CONSTRUCTION TO EXISTING CONDITION.
10. CONTRACTOR TO REMOVE AND DISPOSE OF ALL LOOSE DEBRIS ON ROOF.

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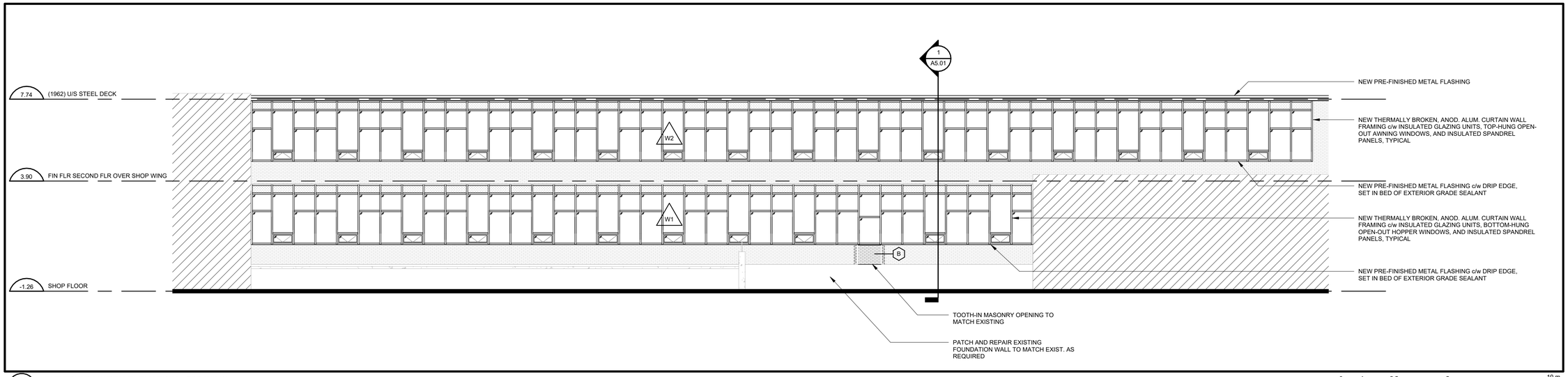
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

ENLARGED ROOF PLAN

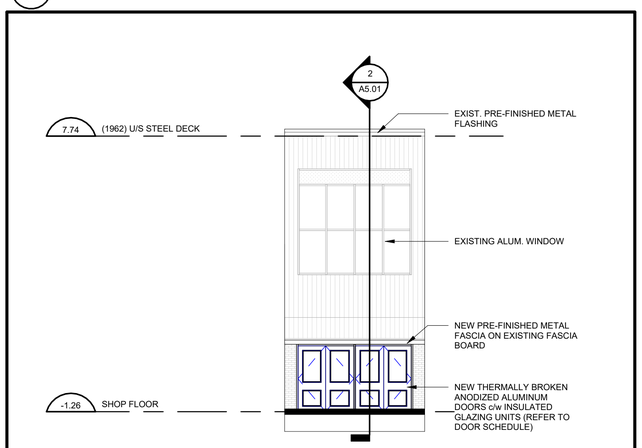
Plot Date:	2026-03-27
Drawn By:	CAI
Project No.:	1167A

A3.03



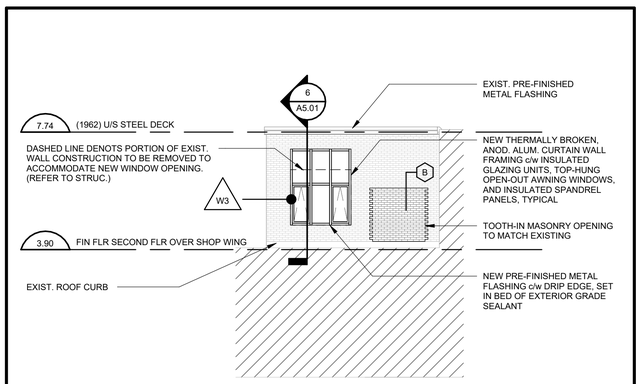
1 A4.01 EXTERIOR NORTH ELEVATION - 500 WING

0 1 2.5 5 10 m
1:100



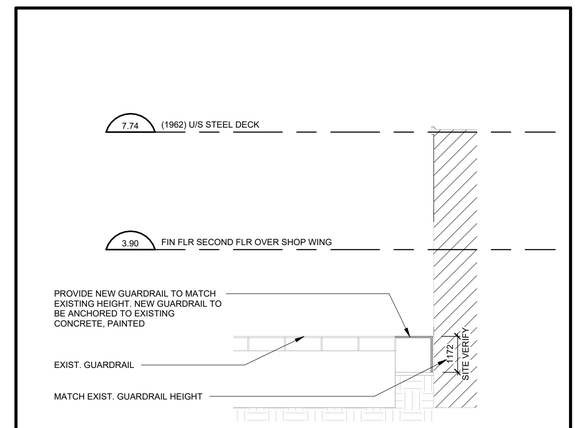
2 A4.01 EXTERIOR WEST ELEVATION - STAIR 908

0 1 2.5 5 10 m
1:100



3 A4.01 EXTERIOR NORTH ELEVATION - 500 WING OFFICE

0 1 2.5 5 10 m
1:100



4 A4.01 EXTERIOR EAST ELEVATION - 500 WING

0 1 2.5 5 10 m
1:100

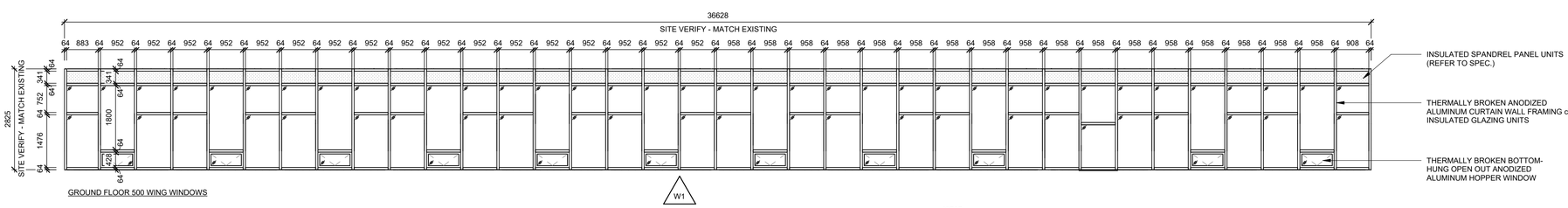
ELEVATION LEGEND
APPLICABLE TO ALL DRAWINGS

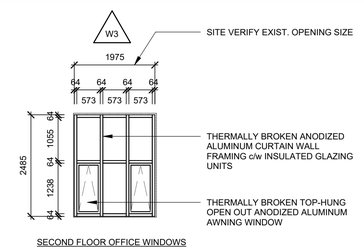
B	BRICK VENEER, TO MATCH EXISTING, (REFER TO SPEC)
	EXISTING VERTICAL METAL SIDING
	VISION GLASS (REFER TO SPEC), REFER TO WINDOW ELEVATIONS
	INSULATED SPANDREL PANEL - COLOUR 1 (REFER TO SPEC), REFER TO WINDOW ELEVATIONS
W-	WINDOW NUMBER, REFER TO WINDOW ELEVATIONS

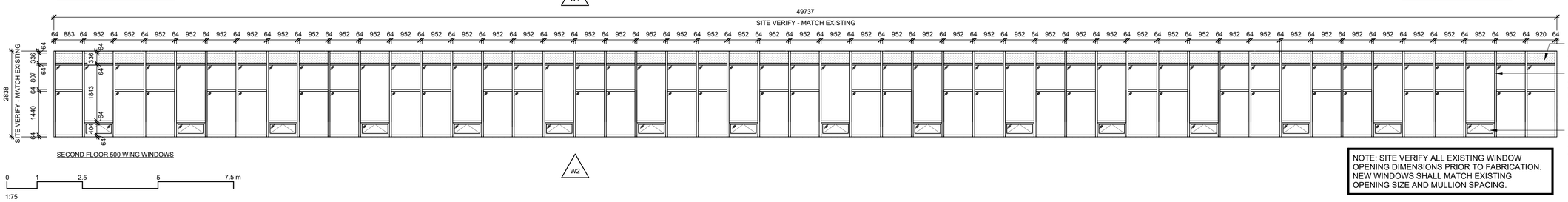
EXTERIOR ELEVATION NOTES
APPLICABLE TO ALL DRAWINGS

1. ELEVATIONS ARE SHOWN PERPENDICULAR TO EACH BUILDING, i.e. ANGLED VIEWS ARE IGNORED.
2. ALL GLAZING IS FIXED UNLESS NOTED OTHERWISE, REFER TO WINDOW ELEVATIONS
3. VERIFY ACTUAL ROUGH OPENING (RO) SIZES ON SITE, PRIOR TO FABRICATION.

WINDOW ELEVATIONS







0 1 2.5 5 7.5 m
1:75

NOTE: SITE VERIFY ALL EXISTING WINDOW OPENING DIMENSIONS PRIOR TO FABRICATION. NEW WINDOWS SHALL MATCH EXISTING OPENING SIZE AND MULLION SPACING.

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Waterloo-Oxford District Secondary School

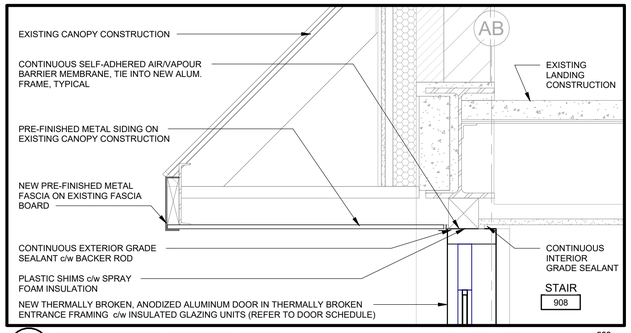
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

EXTERIOR ELEVATIONS & WINDOW ELEVATIONS

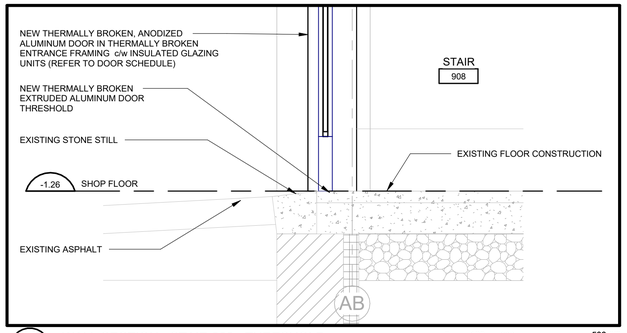
Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

A4.01



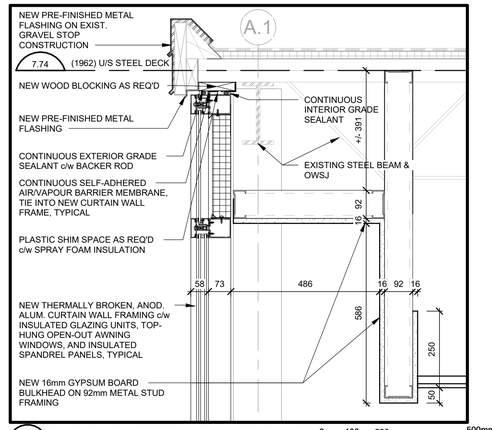
9 A5.01 WALL SECTION - STAIR 908 - HEAD

0 100 200 500mm
1:10



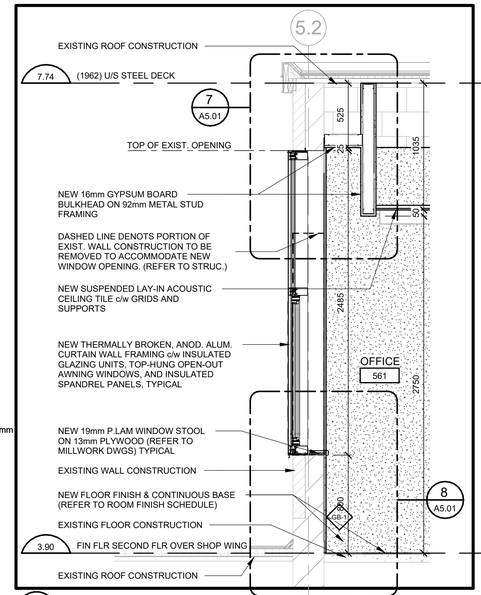
10 A5.01 WALL SECTION - STAIR 908 - THRESHOLD

0 100 200 500mm
1:10



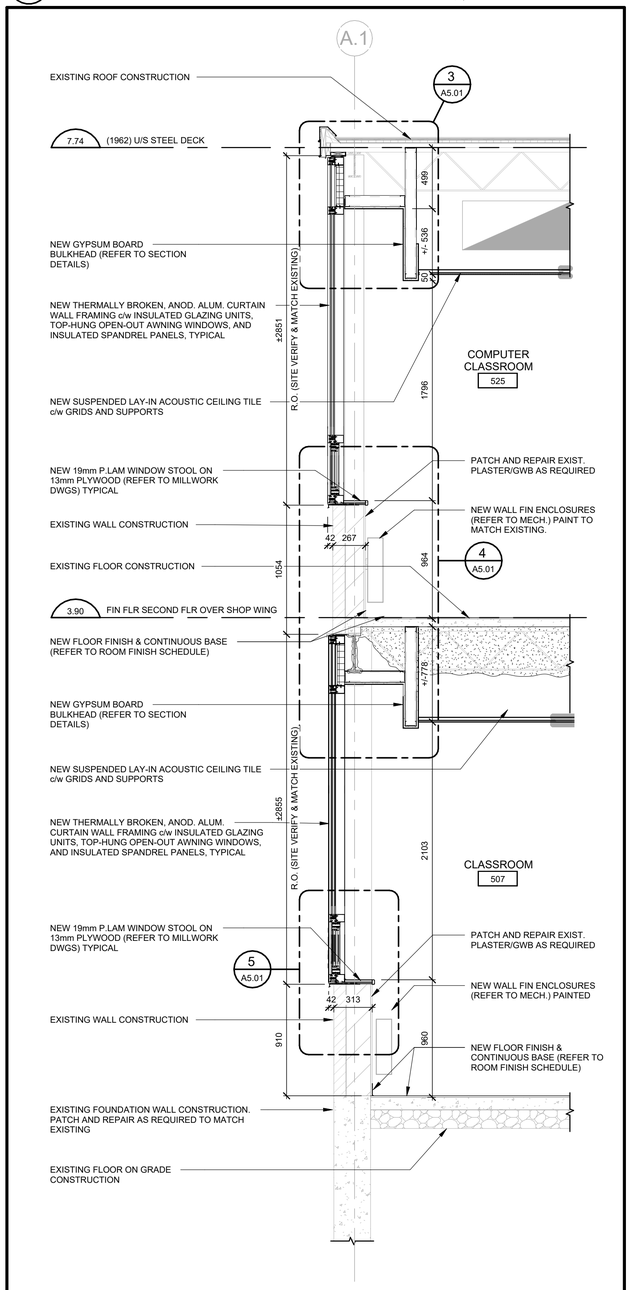
3 A5.01 SECTION DETAIL - 500 WING - PARAPET

0 100 200 500mm
1:10



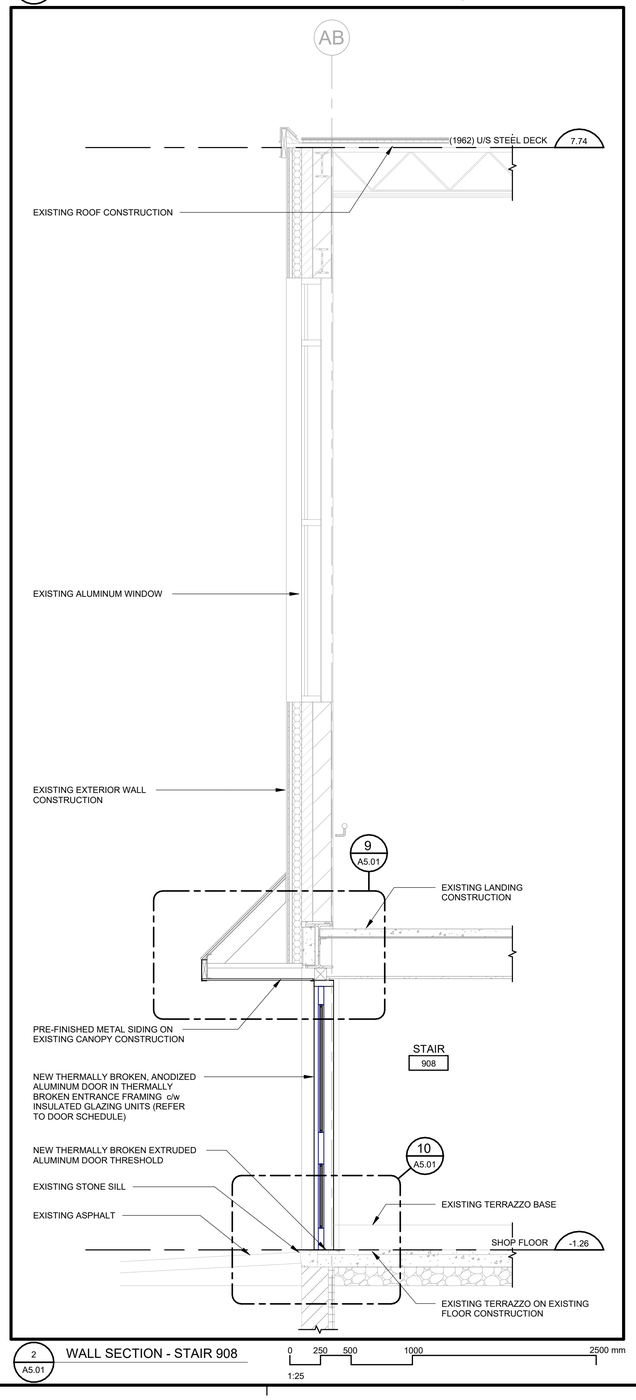
6 A5.01 WALL SECTION - 500 WING OFFICE

0 250 500 1000
1:25



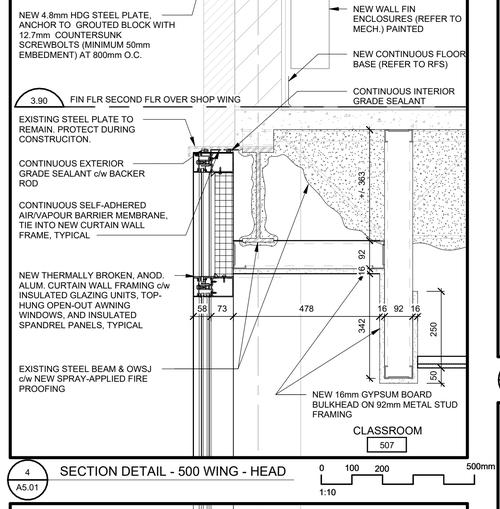
1 A5.01 TYPICAL WALL SECTION - 500 WING

0 250 500 1000 2500 mm
1:25



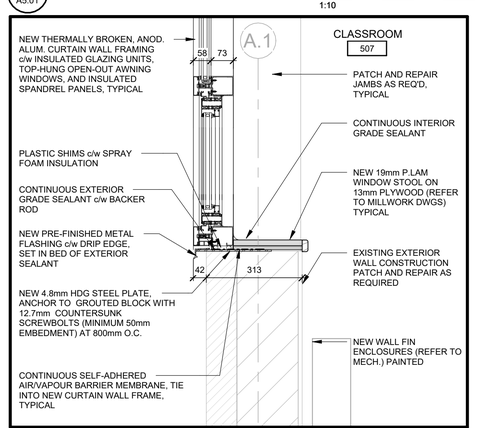
2 A5.01 WALL SECTION - STAIR 908

0 250 500 1000 2500 mm
1:25



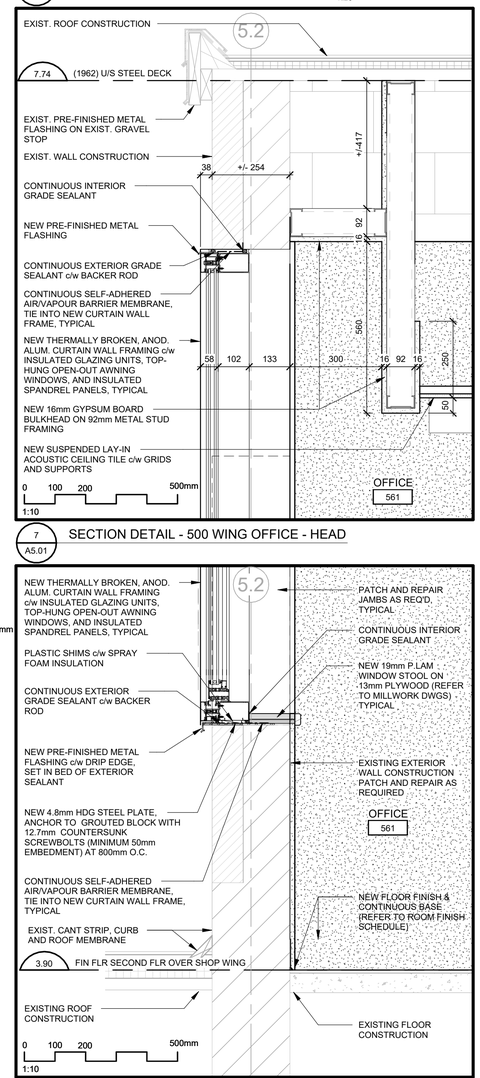
4 A5.01 SECTION DETAIL - 500 WING - HEAD

0 100 200 500mm
1:10



5 A5.01 SECTION DETAIL - 500 WING - SILL

0 100 200 500mm
1:10



7 A5.01 SECTION DETAIL - 500 WING OFFICE - HEAD

0 100 200 500mm
1:10

8 A5.01 SECTION DETAIL - 500 WING OFFICE - SILL

0 100 200 500mm
1:10

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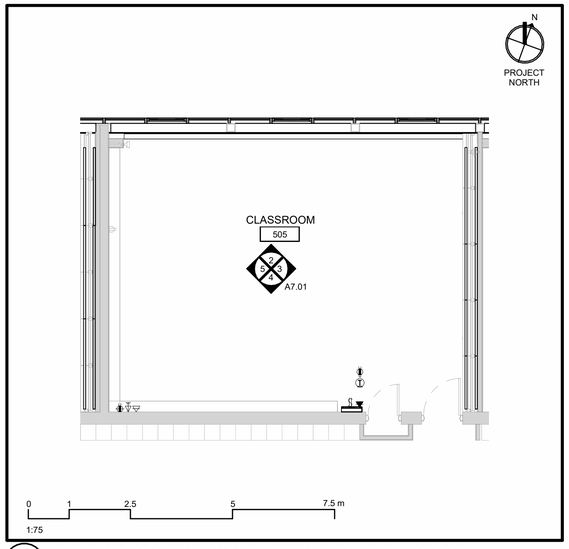
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

WALL SECTIONS & SECTION DETAILS

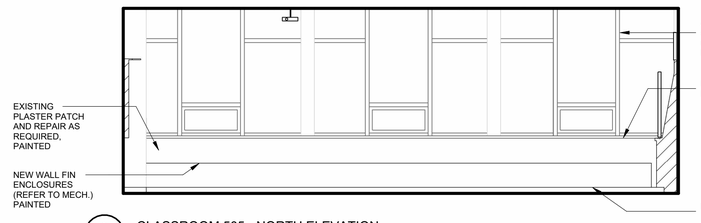
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1167A	CAI	2026-03-27

A5.01

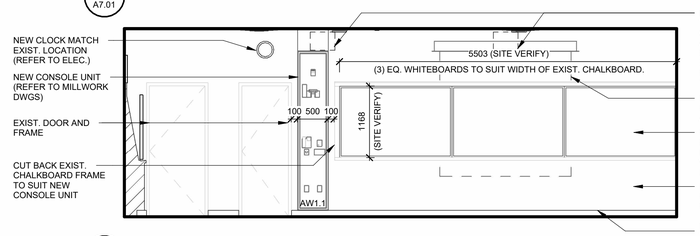


1 A7.01 ENLARGED GROUND FLOOR - 500 WING - TYPICAL CLASSROOM

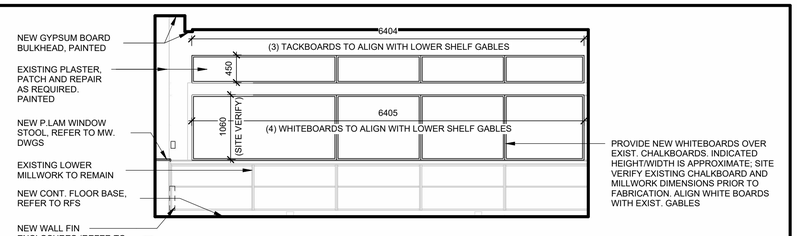
CLASSROOMS 501 & 503 SIM.



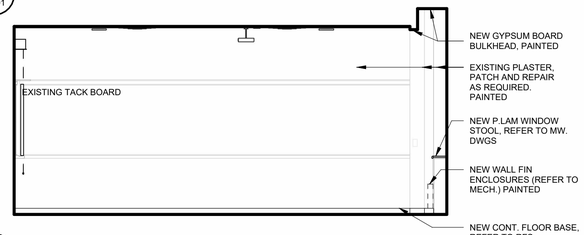
2 A7.01 CLASSROOM 505 - NORTH ELEVATION



4 A7.01 CLASSROOM 505 - SOUTH ELEVATION

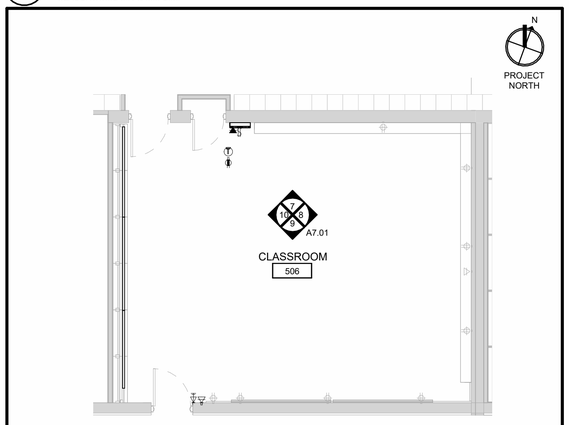


3 A7.01 CLASSROOM 505 - EAST ELEVATION

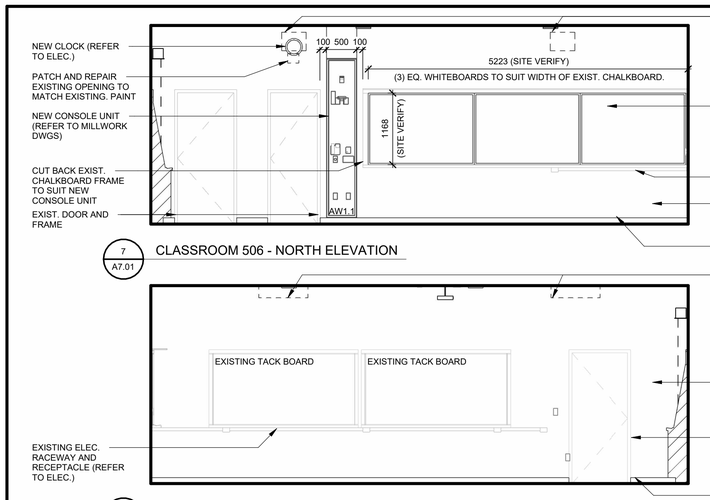


5 A7.01 CLASSROOM 505 - WEST ELEVATION

0 0.5 1 2.5 5m
1:50

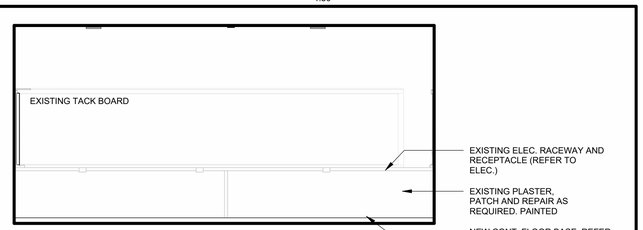


6 A7.01 ENLARGED GROUND FLOOR - 500 WING - CLASSROOM 506

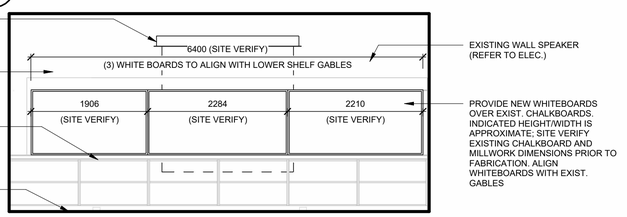


7 A7.01 CLASSROOM 506 - NORTH ELEVATION

9 A7.01 CLASSROOM 506 - SOUTH ELEVATION

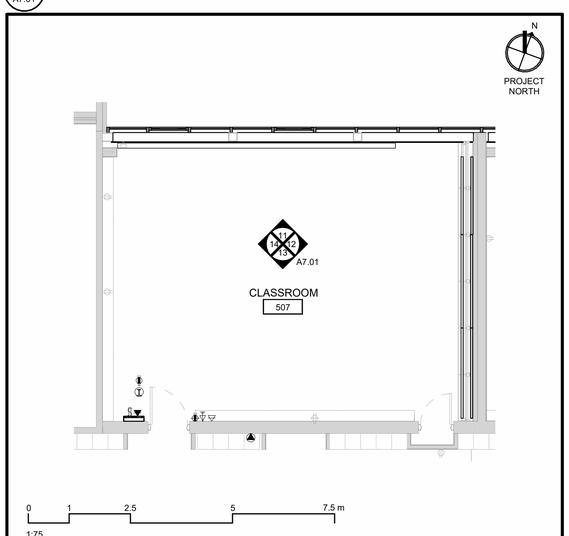


8 A7.01 CLASSROOM 506 - EAST ELEVATION

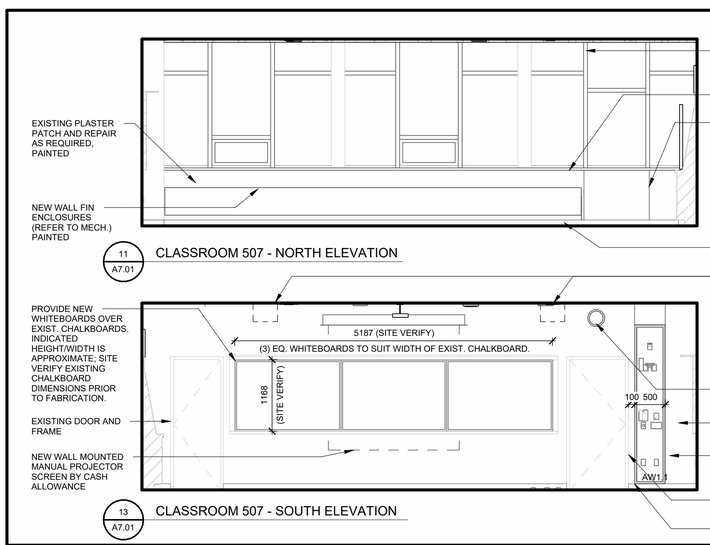


10 A7.01 CLASSROOM 506 - WEST ELEVATION

0 0.5 1 2.5 5m
1:50

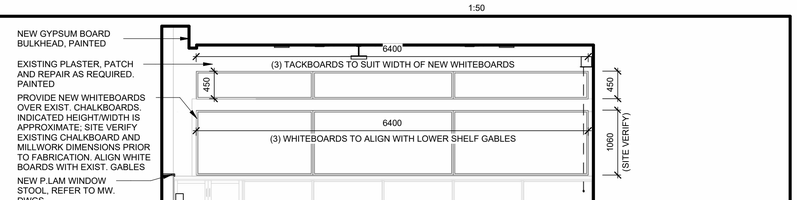


100 A7.01 ENLARGED GROUND FLOOR - 500 WING - CLASSROOM 507



11 A7.01 CLASSROOM 507 - NORTH ELEVATION

13 A7.01 CLASSROOM 507 - SOUTH ELEVATION



12 A7.01 CLASSROOM 507 - WEST ELEVATION



14 A7.01 CLASSROOM 507 - WEST ELEVATION

0 0.5 1 2.5 5m
1:50

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ISSUED FOR BID 2026-03-27

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo-Oxford District Secondary School

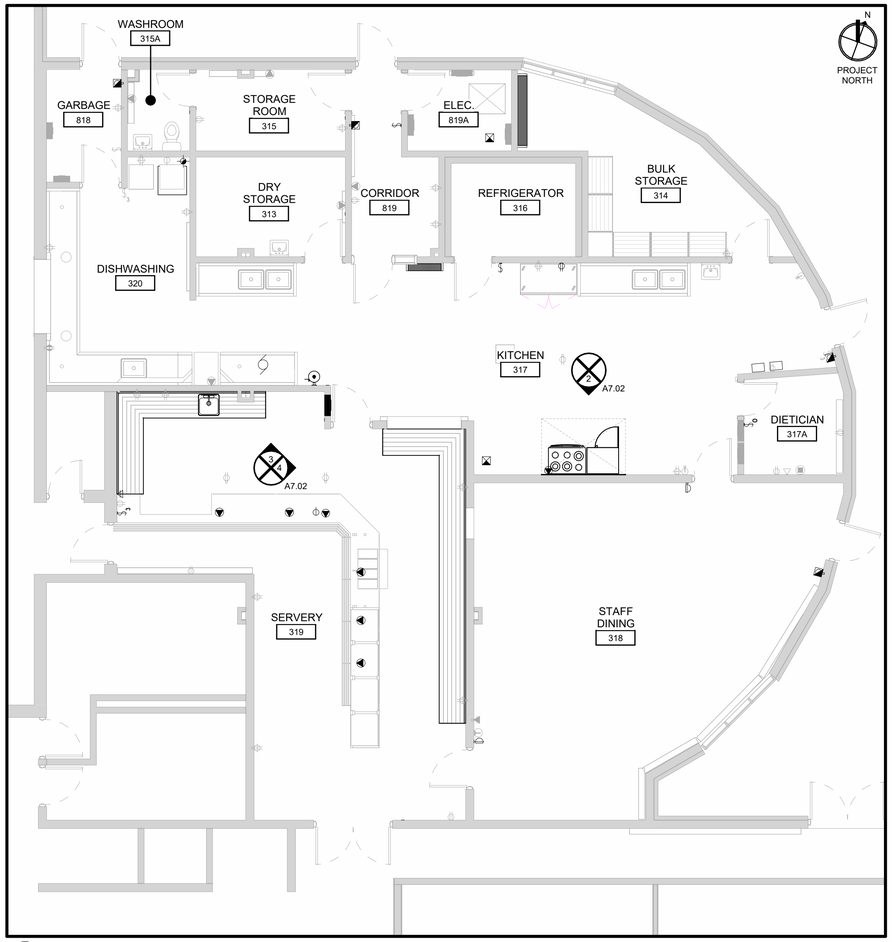
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyders Rd W, Baden, ON N3A 1A4

Project No.:	Drawn By:	Plot Date:
1167A	CAI	2026-03-27

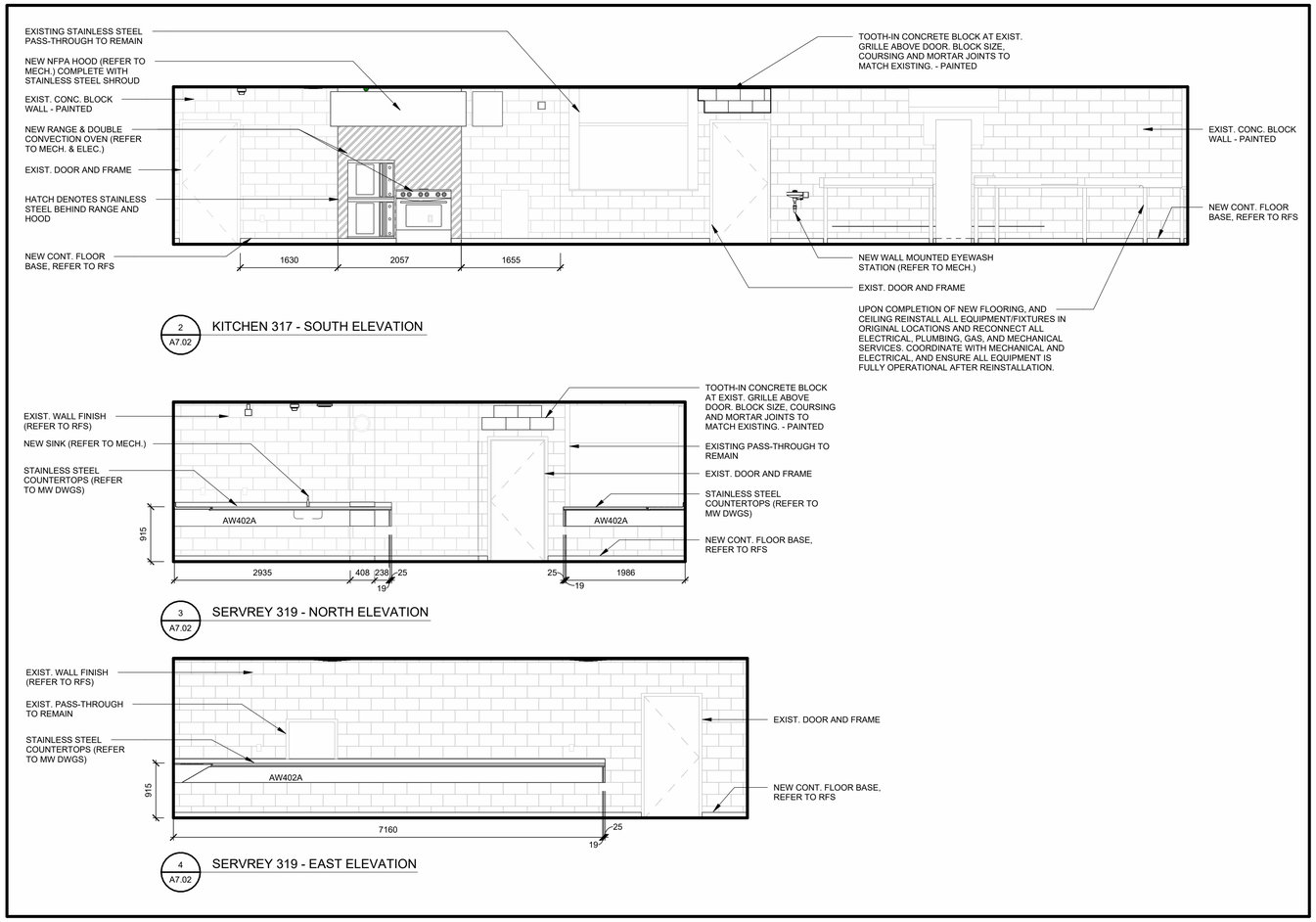
INTERIOR ELEVATIONS

A7.01



1 A7.02 ENLARGED GROUND FLOOR - CAFETERIA KITCHEN

1:75



2 A7.02 KITCHEN 317 - SOUTH ELEVATION

3 A7.02 SERVREY 319 - NORTH ELEVATION

4 A7.02 SERVREY 319 - EAST ELEVATION

1:50

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

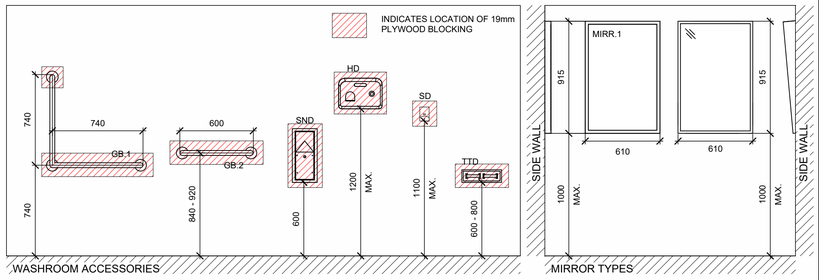
INTERIOR ELEVATIONS

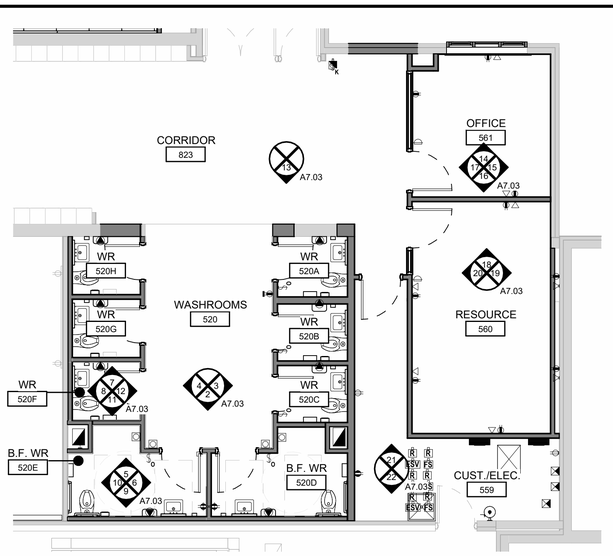
Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

A7.02

WASHROOM ACCESSORY MOUNTING HEIGHTS

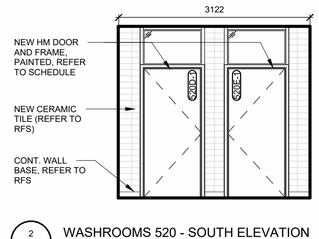
NOTE: ACCESSORIES TO BE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR





1 A7.03 ENLARGED SECOND FLOOR PLAN - 500 WING - WASHROOMS/OFFICES

0 1 2.5 5 7.5 m
1:75



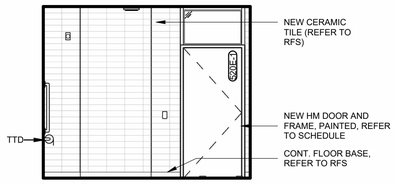
2 A7.03 WASHROOMS 520 - SOUTH ELEVATION



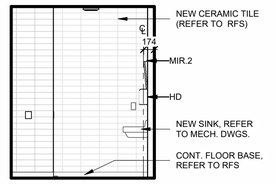
3 A7.03 WASHROOMS 520 - EAST ELEVATION



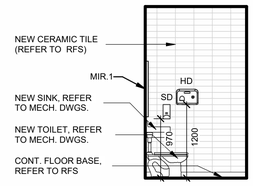
4 A7.03 WASHROOMS 520 - WEST ELEVATION



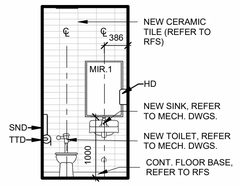
5 A7.03 B.F. WR 520E - NORTH ELEVATION



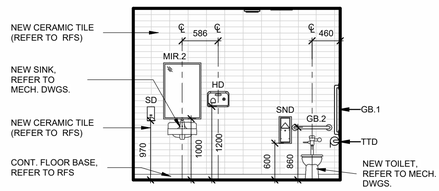
6 A7.03 B.F. WR 520E - EAST ELEVATION



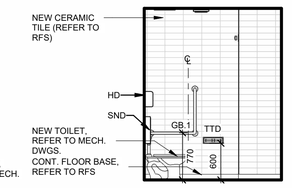
7 A7.03 WR 520F - NORTH ELEVATION



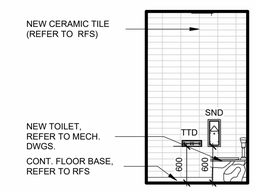
8 A7.03 WR 520F - WEST ELEVATION



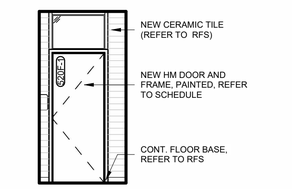
9 A7.03 B.F. WR 520E - SOUTH ELEVATION



10 A7.03 B.F. WR 520E - WEST ELEVATION

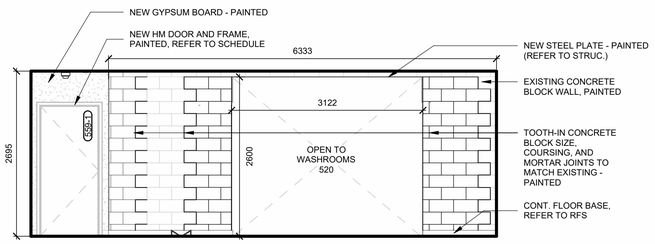


11 A7.03 WR 520F - SOUTH ELEVATION

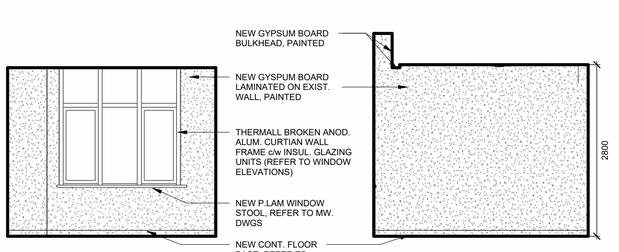


12 A7.03 WR 520F - EAST ELEVATION

0 0.5 1 2.5 5m
1:50

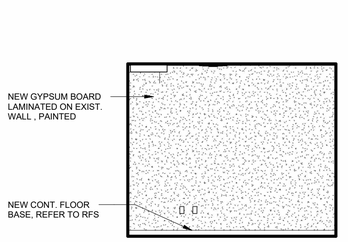


13 A7.03 500 WING CORRIDOR 823 - SOUTH ELEVATION

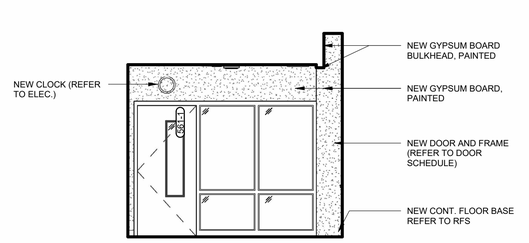


14 A7.03 OFFICE 561 - NORTH ELEVATION

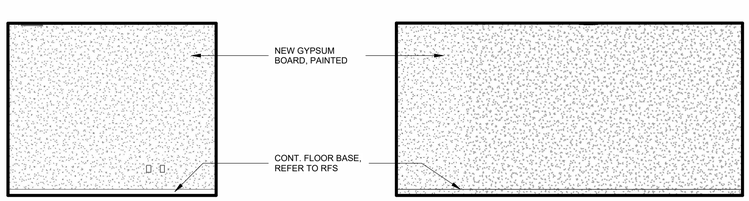
15 A7.03 OFFICE 561 - EAST ELEVATION



16 A7.03 OFFICE 561 - SOUTH ELEVATION

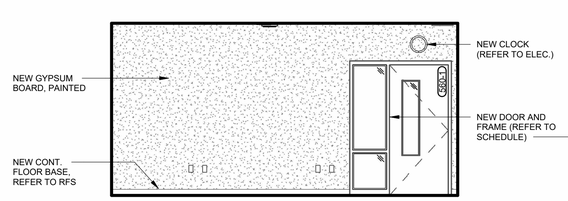


17 A7.03 OFFICE 561 - WEST ELEVATION

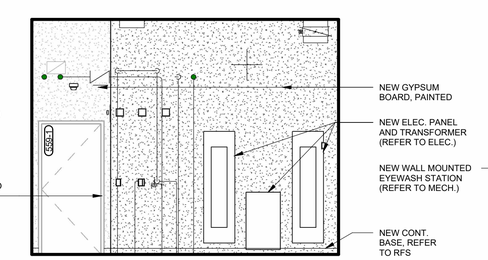


18 A7.03 RESOURCE ROOM 560 - NORTH ELEVATION

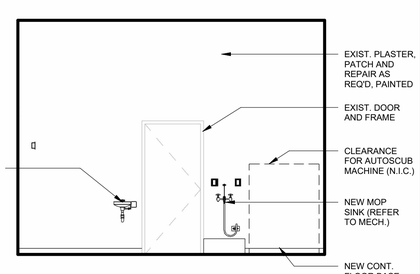
19 A7.03 RESOURCE ROOM 815 - EAST ELEVATION



20 A7.03 RESOURCE ROOM 560 - WEST ELEVATION



21 A7.03 CUSTODIAL 559 - NORTH ELEVATION



22 A7.03 CUSTODIAL 559 - SOUTH ELEVATION

0 0.5 1 2.5 5m
1:50

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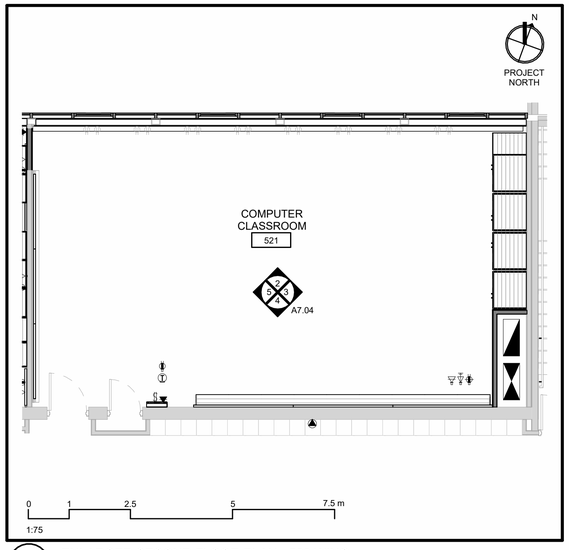
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

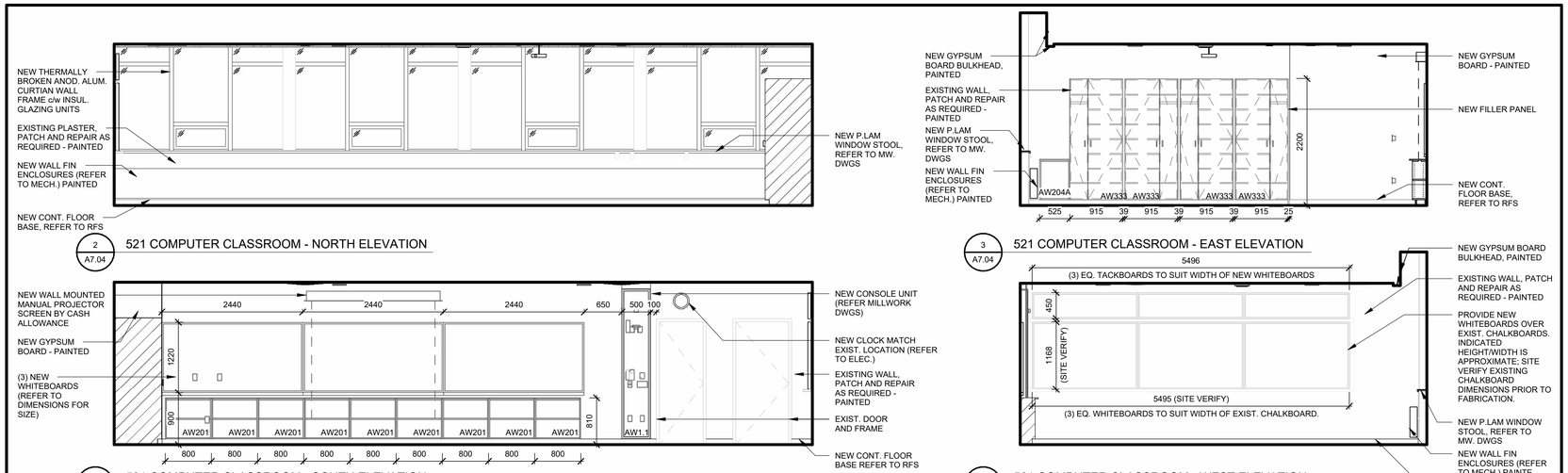
INTERIOR ELEVATIONS

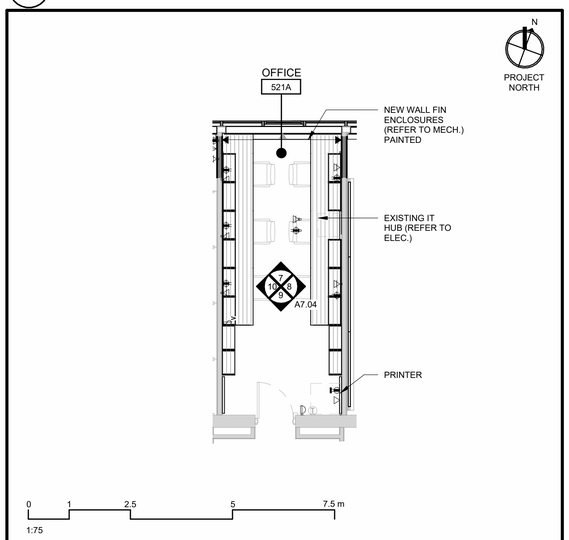
Project No.:	1167A
Drawn By:	CAI
Plot Date:	2026-03-27

A7.03

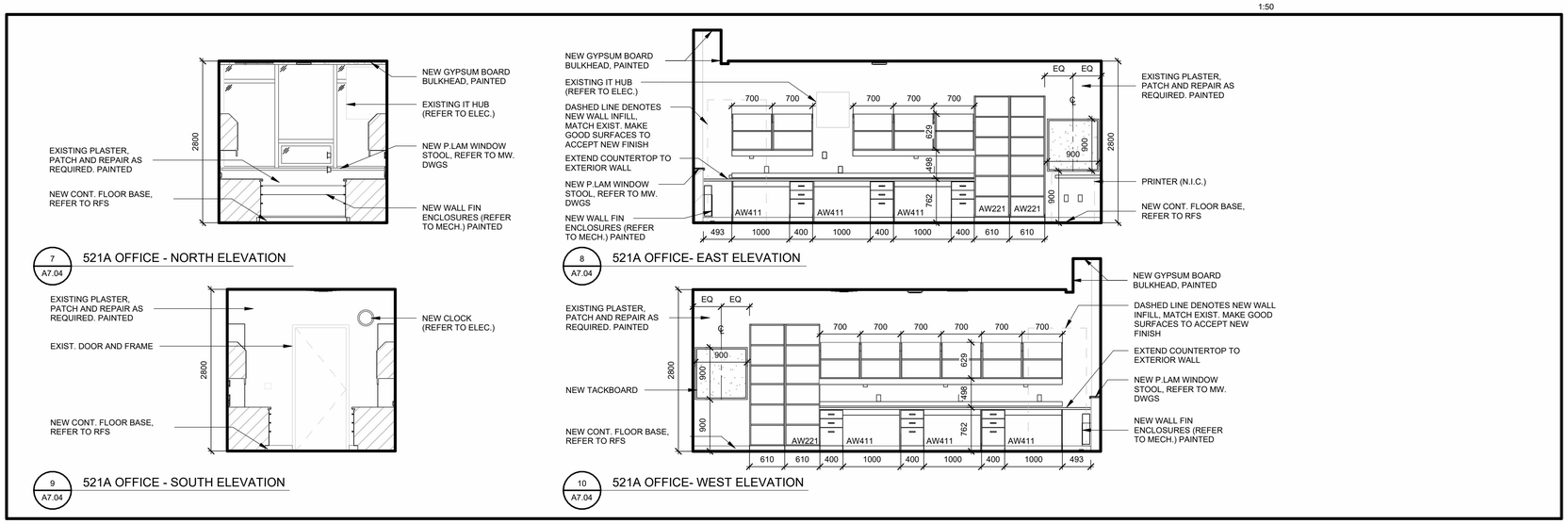


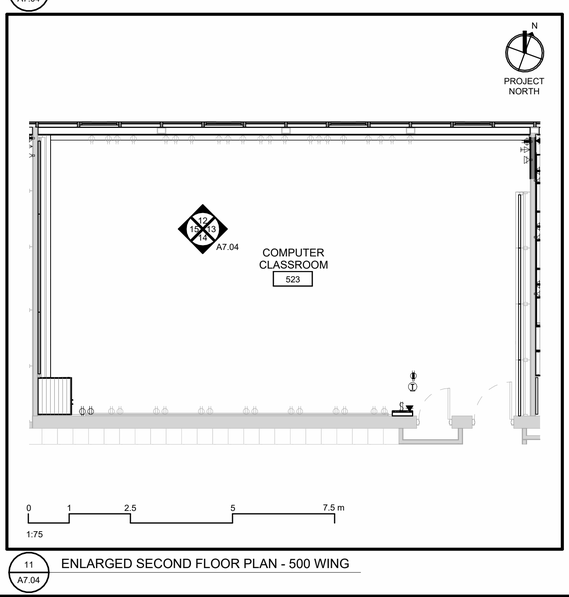
1 A7.04 ENLARGED SECOND FLOOR PLAN - 500 WING



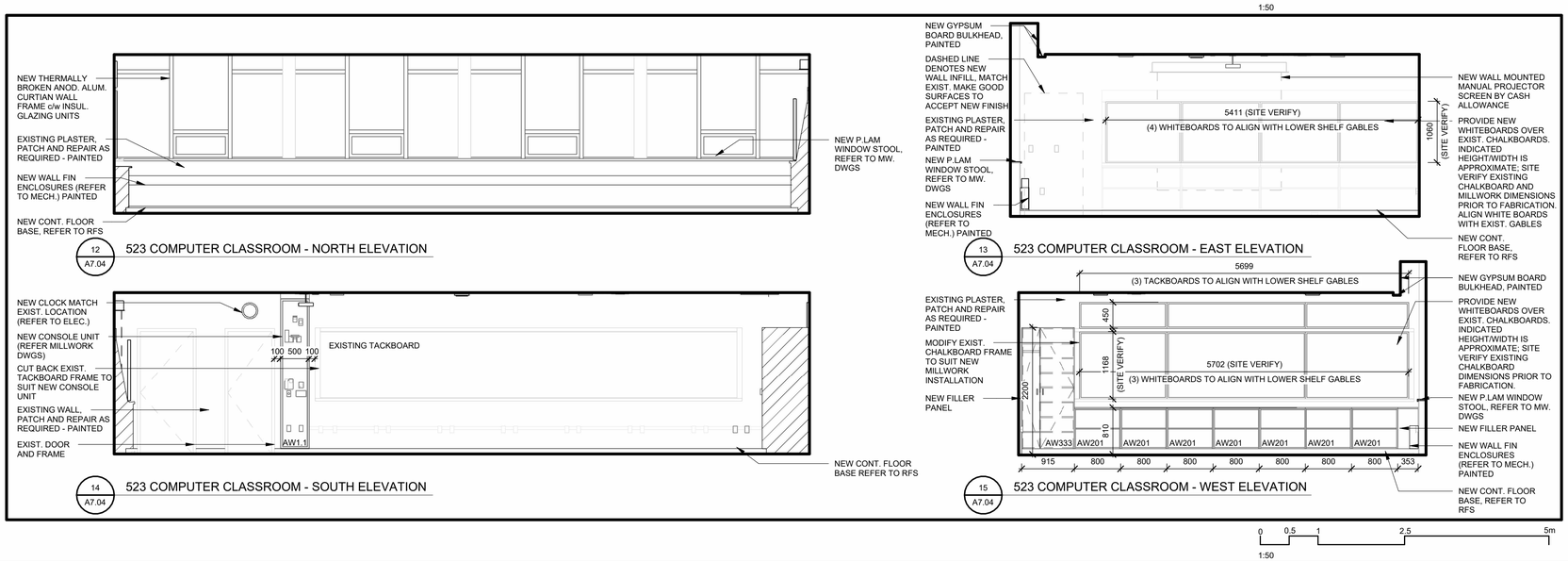


6 A7.04 ENLARGED SECOND FLOOR PLAN - 500 WING





11 A7.04 ENLARGED SECOND FLOOR PLAN - 500 WING



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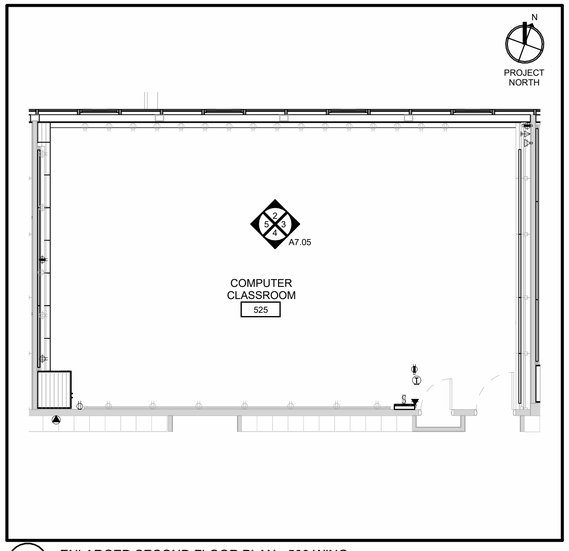
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

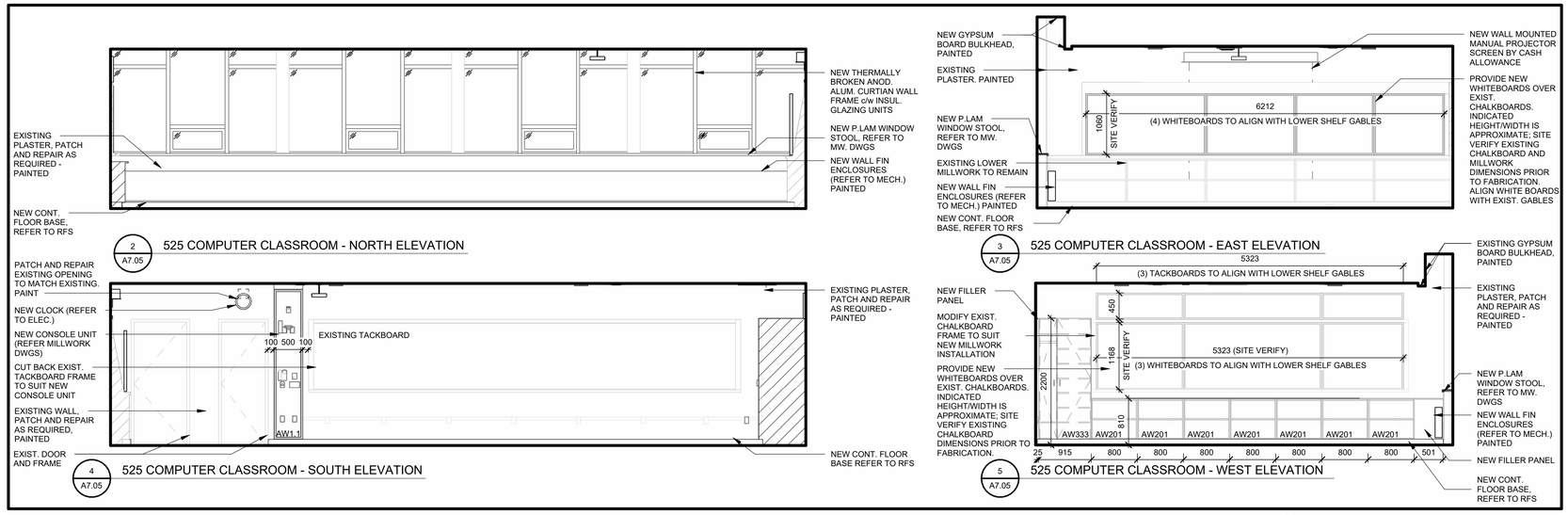
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Drawn By:	CAI
Plot Date:	2026-03-27

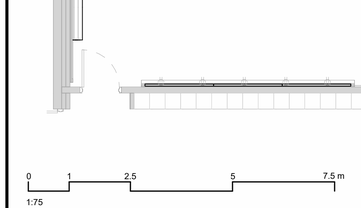
INTERIOR ELEVATIONS

A7.04

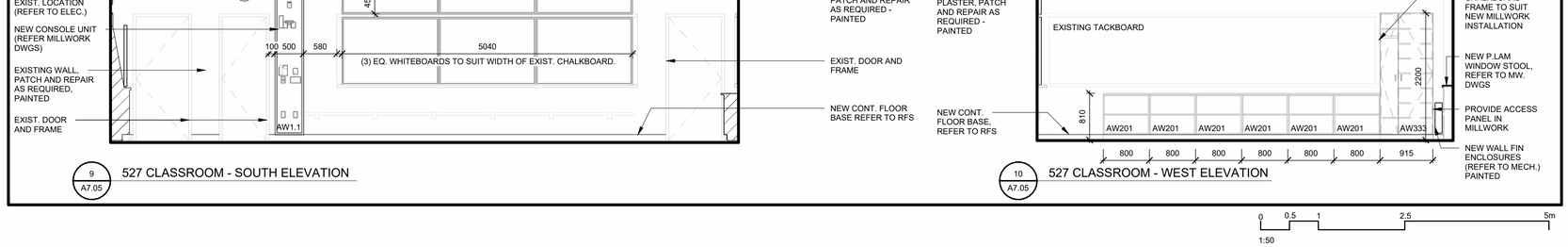


1 A7.05 ENLARGED SECOND FLOOR PLAN - 500 WING





6 A7.05 ENLARGED SECOND FLOOR PLAN - 500 WING



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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

INTERIOR ELEVATIONS

Plot Date: 2026-03-27
Drawn By: CAI
Project No.: 1167A

A7.05

LINTEL SCHEDULES

GENERAL PURPOSE LINTELS

STEEL LINTELS

MAXIMUM CLEAR SPAN	MATERIAL	MASONRY TYPE
1400mm	L–89 x 89 x 6.4	90 BRICK OR 90 BLOCK PER WYTHE
1800mm	L–127 x 89 x 6.4 LLV	
2200mm	L–127 x 89 x 7.9 LLV	
2800mm	L–152 x 102 x 9.5 LLV	
2000mm	2 L–89 x 64 x 6.4 LLV	140 BLOCK
1800mm	2 L–89 x 89 x 6.4	190 BLOCK
2400mm	2 L–127 x 89 x 6.4 LLV	
4200mm	S200x27 + PL 170x6	
1400mm	L–102 x 102 x 6.4 + L–127 x 102 x 6.4	240 BLOCK
3000mm	S150x19 + PL 220x6	
1200mm	S100x11 + PL 270x6	290 BLOCK
1900mm	S150x19 + PL 270x6	
3500mm	S200x27 + PL 270x6	

CONDITIONS OF USE FOR GENERAL PURPOSE LINTEL SCHEDULE:

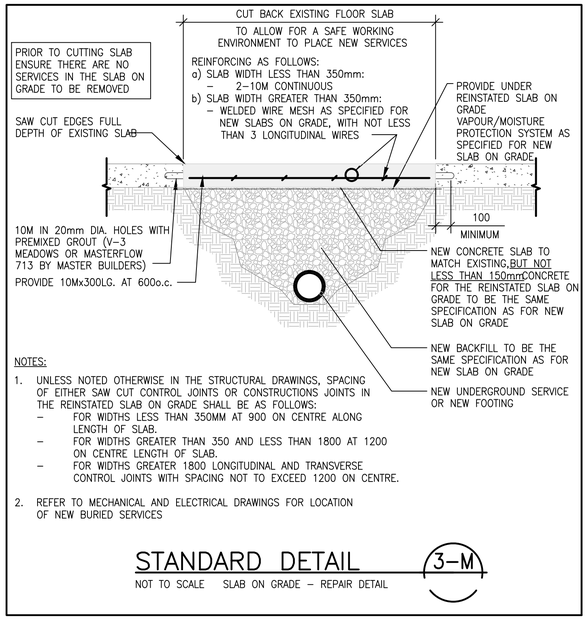
1. WHERE LINTEL MARKS ARE SHOWN THUS: "L#". REFER TO SCHEDULE "LINTELS FOR IDENTIFIED OPENINGS" ON THIS DRAWING.
2. A SUITABLE LINTEL IS TO BE SUPPLIED FOR ALL MASONRY OPENINGS.
3. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
4. THIS SCHEDULE IS TO BE USED AS A GUIDE WITH REGARD TO WALL SIZE AND OPENING WIDTH FOR ANY LINTELS NOT SPECIFICALLY NOTED ON PLAN.
5. CONCRETE BLOCK UNITS ARE HOLLOW AND UNFILLED EXCEPT FOR FIRST COURSE ABOVE LINTEL WHICH SHALL BE FILLED SOLID UNLESS NOTED OTHERWISE.
6. DO NOT SHORE LINTELS DURING WALL CONSTRUCTION.
7. PROVIDE 200mm BEARING EACH END ON 400mm LONG BY 2 COURSES DEEP OF FILLED OR SOLID MASONRY UNLESS NOTED OTHERWISE ON DRAWING.
8. CONNECT LINTELS DIRECTLY TO STRUCTURE WHERE INSUFFICIENT BEARING IS AVAILABLE.
9. LINTEL SUPPORTING EXTERIOR WYTHE OF MASONRY IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED.
10. ALL DOUBLE ANGLE LINTELS TO BE WELDED BACK–TO–BACK TOP AND BOTTOM WITH 5mm FILLET WELDS x 50mm LONG WELD AT 600mm o/c.
11. LINTELS IN CURVED WALLS ARE TO BE ROLLED TO REQUIRED RADIUS.
12. MASONRY CONTROL JOINTS ARE NOT TO BE LOCATED THROUGH LINTELS.
13. FULL HEAD JOINTS ARE REQUIRED FOR DEPTH OF LINTEL.

LINTELS FOR IDENTIFIED OPENINGS

MARK	MATERIAL	ARRANGEMENT	REMARKS
L1	W250x49 +PL. 270x6		PROVIDE BP1 EACH END, LOCATE BETWEEN JOIST BEARINGS WHEN POSSIBLE
L2	W200x19 + 170x6 PLATE +L89x89x6.4 HDG	L	PROVIDE BP1 EACH END
L3	L102x102x6.4		

NOTES FOR LINTELS FOR IDENTIFIED OPENINGS SCHEDULE:

1. A SUITABLE LINTEL IS TO BE SUPPLIED FOR ALL MASONRY OPENINGS. FOR OPENINGS THROUGH MASONRY WALLS WHICH DO NOT HAVE A SPECIFIC MARK REFER TO SCHEDULE "GENERAL PURPOSE LINTELS" ON THIS DRAWING.
2. SEE PLANS FOR LINTEL MARKS.
3. LINTEL SUPPORTING EXTERIOR WYTHE OF MASONRY IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED. SEE GENERAL PURPOSE LINTEL SCHEDULE FOR SIZE.
4. FULL HEAD JOINTS ARE REQUIRED FOR DEPTH OF MASONRY LINTEL WHEN SPECIFIED
5. GROUT FOR LINTEL TO BE 25MPa.
6. MASONRY CONTROL JOINTS ARE NOT TO BE LOCATED THROUGH MASONRY LINTELS.
7. ALL EXTERIOR LINTELS TO BE HOT–DIP GALVANIZED AFTER FABRICATION AND STRAIGHTENED TO MEET CSA S16 TOLERANCES.
8. PROVIDE 8" BEARING EACH END UNLESS NOTED OTHERWISE ON DRAWING.
9. BEARING TO BE ON 2'–0" LONG BY 2 COURSES DEEP OF FILLED MASONRY UNLESS OTHERWISE NOTED ON PLAN, DRAWING, OR BEARING PLATE SCHEDULE.



NOTES:

1. UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS, SPACING OF EITHER SAW CUT CONTROL JOINTS OR CONSTRUCTIONS JOINTS IN THE REINSTATED SLAB ON GRADE SHALL BE AS FOLLOWS:
   – FOR WIDTHS LESS THAN 350MM AT 900 ON CENTRE ALONG LENGTH OF SLAB.
   – FOR WIDTHS GREATER THAN 350 AND LESS THAN 1800 AT 1200 ON CENTRE LENGTH OF SLAB.
   – FOR WIDTHS GREATER 1800 LONGITUDINAL AND TRANSVERSE CONTROL JOINTS WITH SPACING NOT TO EXCEED 1200 ON CENTRE.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF NEW BURIED SERVICES

STANDARD DETAIL 3–M
NOT TO SCALE SLAB ON GRADE – REPAIR DETAIL

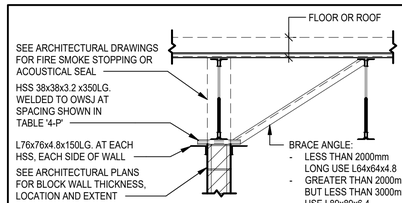
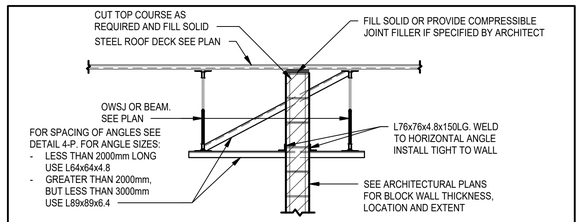
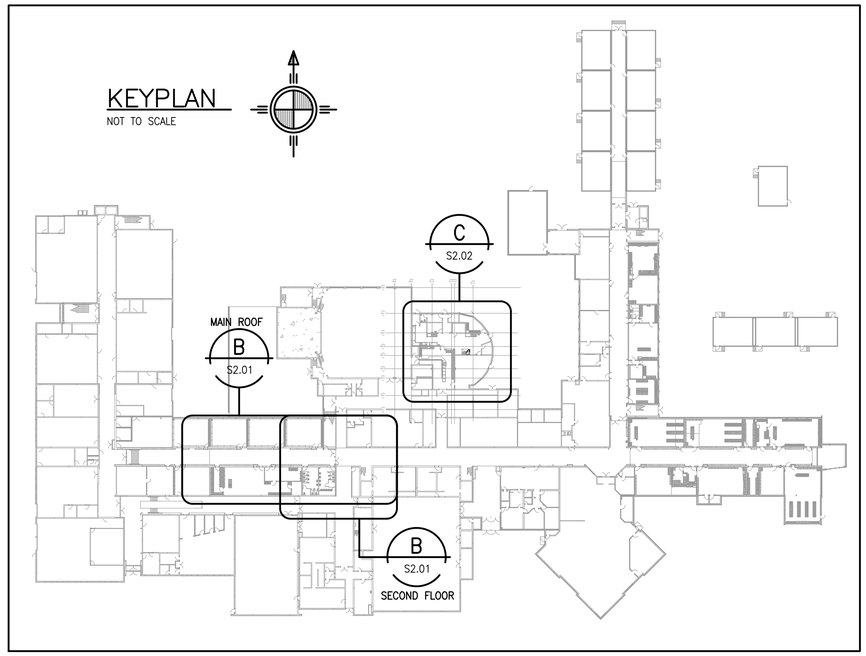


TABLE 4-P	
MASONRY WYTHE THICKNESS	MAXIMUM SPACING OF LATERAL SUPPORT
90mm	900mm
140mm	1400mm
190mm & THICKER	1800mm

STANDARD DETAIL 4-P
NOT TO SCALE **LATERAL SUPPORT - BELOW OPEN WEB STEEL JOIST**



STANDARD DETAIL 4-Q
NOT TO SCALE **LATERAL SUPPORT - PARALLEL TO OPEN WEB STEEL JOIST**



GENERAL

1. GENERAL CONTRACTOR TO SITE VERIFY ALL CONDITIONS AND OR DIMENSIONS SHOWN OR IMPLIED ON THE STRUCTURAL DRAWINGS.
2. GENERAL CONTRACTOR TO CO–ORDINATE ALL STRUCTURAL DOCUMENTS AND WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SITE SERVICING DOCUMENTS AND WORK.
3. REPORT ANY DISCREPANCIES AND OR CONFLICTS IN DIMENSIONS OR DETAILS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING THE WORK IN QUESTION.
4. PROVIDE ALL TEMPORARY NEEDLING, SHORING AND BRACING AS REQUIRED TO SAFELY COMPLETE THE WORK SHOWN ON THE STRUCTURAL DRAWINGS. SUBMIT, DRAWINGS DETAILING THE TEMPORARY WORKS, SEALED SIGNED AND DATED BY A LICENSED PROFESSIONAL ENGINEER.

CONCRETE AND CONCRETE REINFORCING

1. ALL CONCRETE WORK INCLUDING MATERIALS, MIXING, PLACING, FINISHING, CURING, COLD WEATHER PROTECTION, HOT WEATHER PROTECTION, FORMWORK AND RESHORING IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE.
2. ALL CONCRETE REINFORCING INCLUDING MATERIALS, FABRICATION, DETAILING, LAP SPLICES, PLACEMENT, FIXING AND COVER IN ACCORDANCE WITH A23.1 AND A23.3 CURRENT UNLESS NOTED OTHERWISE HERE.
3. CURE ALL SLABS ON GRADE WITH PRE–APPROVED CURING COMPOUND COMPATIBLE WITH THE PROPOSED FLOORING ADHESIVE. MAINTAIN AIR TEMPERATURE AT OR ABOVE 10'C FOR SEVEN (7) DAYS.
4. ALL SLABS TO BE LEFT EXPOSED IN THE COMPETED BUILDING TO RECEIVE TWO COATS OF A PRE–APPROVED CONCRETE SEALER IMMEDIATELY PRIOR TO TURNING THE BUILDING OVER TO THE OWNER.
5. CONCRETE PROPERTIES:

LOCATION	SPEC 28 DAY	SLUMP	AIR CONTENT	EXPOSURE CLASS
SLABS ON GRADE	25MPa	100 MAX.		N
SLABS ON DECK	25MPa (10mm AGGREGATE MAX)	100 MAX.		N

6. REINFORCING STEEL TO BE GRADE 400, WITH A MINIMUM SPECIFIED YIELD STRENGTH OF 400MPa.

STRUCTURAL STEEL

1. SUBMIT FOR CONSULTANT'S REVIEW ERECTION DIAGRAMS AND FABRICATION DETAILS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR STEEL CONNECTIONS IN ACCORDANCE WITH THE GENERAL NOTES.
2. CONSULTANT S REVIEW OF SHOP DRAWING DOES NOT RELEASE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR THE COMPLETENESS OF THE WORK NOR CO–ORDINATION WITH OTHER TRADES.
3. FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH CSA S16 (CURRENT).

SHAPE	STANDARD	GRADE	MIN. YIELD STRENGTH
CANADIAN WWF & W	GSA G40.21	350W	50 Ksi
HOLLOW STRUCTURAL SECTION CLASS C	GSA G40.21	350W	50 Ksi
PLATES, CHANNELS, ANGLES	GSA G40.21	300W	44 Ksi
WWF & W NOT ROLLED IN CANADA	ASTM A572	50	50 Ksi

4. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING TABLE UNLESS NOTED OTHERWISE.
5. ALL STRUCTURAL STEEL SHALL BE SUFFICIENTLY STRAIGHT THAT VARIATIONS CANNOT BE DETERMINED WITH THE UNAIDED EYE. ALL STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MILL SCALE, DIRT, OIL, OR OTHER FOREIGN MATTER BEFORE SHOP PAINTING. SHOP PAINT SHALL CONFORM TO CAN/CGSB 1.40–M89 OR CISC/CPMA STANDARD 2–75.
6. STEEL LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 8".
7. WHERE HOT DIP GALVANIZING (HDG) IS SPECIFIED IT SHALL BE IN ACCORDANCE WITH CAN/CSA–G164–M92 (MINIMUM ZINC COATING 600 GSM.
8. ALL WELDING SHALL BE DONE BY AN ORGANIZATION FULLY APPROVED BY THE CANADIAN WELDING BUREAU UNDER CSA–W47.1–(CURRENT) IN DIVISION 1 OR 2 A THE TIME OF TENDERING. WELDERS TO BE CWB CERTIFIED TO THE COMPANIES STANDARDS. WELDING AND WELDING MATERIALS SHALL CONFORM TO CSA–W59–(CURRENT).

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

STRUCTURAL DATA, STANDARD DETAILS AND NOTES

Revised:	MARCH 2026
Drawn By:	AMM
Project No.:	61652_002

S1.01

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PART SECOND FLOOR FRAMING PLAN (A)

Scale: 1:100

S1.01

FLOOR LOADING – DEAD LOAD – CLASSROOM – 2.40kPa
CORRIDOR 2.65kPa

LIVE LOAD – CLASSROOM / WASHROOM – 2.40kPa
CORRIDOR – 4.80kPa

SHORING POSTS FROM ROOF STRUCTURE TO EXTEND TO SLAB ON GRADE

PROVIDE SHORING FOR JOISTS AS REQUIRED TO INSTALL NEW LINTELS. PROVIDE NEEDLE SHORING AT U/S OF EXISTING 2ND FLOOR SLAB FOR LARGE 900 WIDE OPENING REQUIRED TO SUPPORT WALL ABOVE

CUT OUT Ex. FLOOR AT NEW DUCT OPENING

SHORING POSTS FOR ROOF EXTENDED TO SLAB ON GRADE

FLOOR INFILL. SEE SECTION 11/S2.02

SHORING POSTS FOR ROOF STRUCTURE TO EXTEND TO SLAB ON GRADE

EXISTING FLOOR CONSTRUCTION 2½"CONCRETE SLAB

FLOOR INFILL. SEE SECTION 11/S2.02

10 / S2.02

INSTALL HSS 127x127x6.4 COLUMN ABOVE

CUT OUT Ex. FLOOR AT NEW DUCT OPENING. PROVIDE C100x8 FRAMING 3 SIDES OF OPENING

FLOOR INFILL. SEE SECTION 13/S2.02

PART ROOF FRAMING PLAN (B)

Scale: 1:100

S1.01

ROOF LOADING – DEAD LOAD – 1.20kPa
SNOW LOAD – 2.30kPa + DRIFT

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL. SEE DETAIL 4–P ON S1.01

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL. SEE DETAIL 4–P ON S1.01

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL. SEE DETAIL 4–P ON S1.01

PROVIDE SHORING POSTS FOR JOISTS EACH SIDE OF WALL FROM GRID 7.1 TO 10.1 TO INSTALL NEW LINTELS AND RTU FRAMING. EXTEND TO SLAB ON GRADE

W200x22 INSTALLED BELOW ROOF. LINE UP WITH EDGE OF RTU CURB.

REMOVE EXISTING C5 FRAMING AND ADD NEW C150x12 FRAMING BELOW RTU CURB AND AROUND DUCT OPENINGS

RTU–20 Ex WEIGHT = 13kN
NEW WEIGHT = 13.5kN

PROVIDE SHORING POSTS TO INSTALL NEW LINTEL. EXTEND TO SLAB ON GRADE

BP1 – 190x190x16 BEARING PLATE WITH 1–15mm x 300 LG ROD. GROUT BLOCK 400 HIGH BELOW BEARING PLATE

12 / S2.02

HSS127x127x4.8 WIND COLUMN

ERV–3 WEIGHT = 7kN

RTU–18 WEIGHT = 13kN
C150x12 FLAT

W200x27

W200x27

SHORING POSTS FOR ROOF STRUCTURE TO EXTEND TO SLAB ON GRADE

NEW RTU–18 kN

RTU–19 Ex WEIGHT = 13kN
NEW WEIGHT = 13.5kN

PROVIDE SHORING POSTS TO INSTALL NEW LINTEL. EXTEND TO SLAB ON GRADE

PROVIDE C150x12 FRAMING BELOW RTU CURB AND AROUND DUCT OPENINGS

NEW W250x73 BEAM WITH 300x6 CONTINUOUS PLATE ALONG TOP

NEW 300x190x16 BEARING PLATE BP2 WITH 2 – 15mm x300 LG RODS. GROUT BLOCK 400 WIDE x 400 HIGH BELOW BEARING PLATE

INSTALL HSS 127x127x6.4 COLUMN FROM 2ND FLOOR TO ROOF

C150x12

4100 DRIFT

2.85kPa

GENERAL CONTRACTOR TO PROVIDE TEMPORARY SHORING OF ROOF TO INSTALL NEW W250 BEAM.

NEW W250x49 BEAM WITH 250x6 CONTINUOUS PLATE ALONG TOP. INSTALL AT U/S Ex JOIST SHOES. WELD JOIST SHOES TO TOP OF BEAM

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL SEE DETAIL 4–P ON S1.01

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL SEE DETAIL 4–P ON S1.01

MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL SEE DETAIL 4–P ON S1.01

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MASONRY LATERAL SUPPORT OF WALL @900o.c. ALONG TOP OF WALL. SEE DETAIL 4–P ON S1.01

2.85kPa

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WINDOW REPLACEMENTS: INTERIOR ALTERATIONS AND HVAC UPGRADES

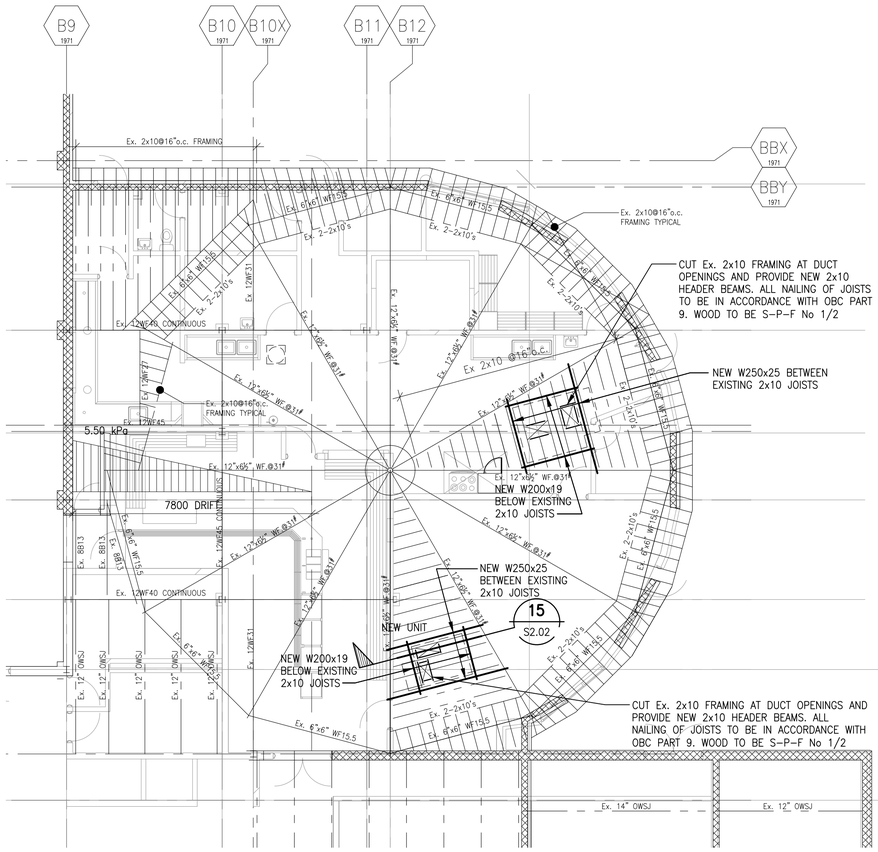
1206 Snyder's Rd W, Baden, ON N3A 1A4

Project No.: 61652_002 | Drawn By: AMM | Revised: MARCH 2026

PART SECOND FLOOR AND ROOF FRAMING PLANS

S2.01

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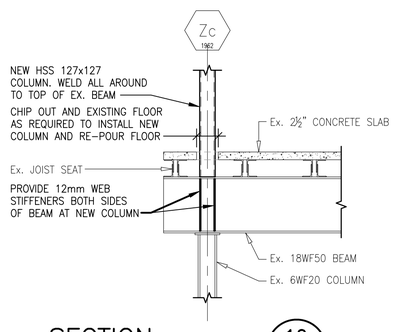


PART LOW ROOF FRAMING PLAN

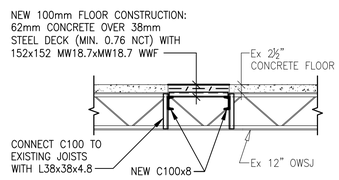
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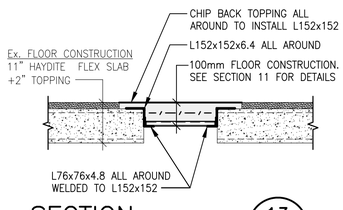
ROOF LOADING – DEAD LOAD – 1.40kPa
SNOW LOAD – 2.30kPa + DRIFT



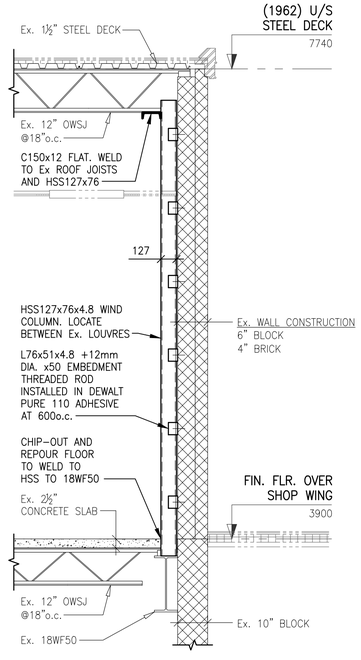
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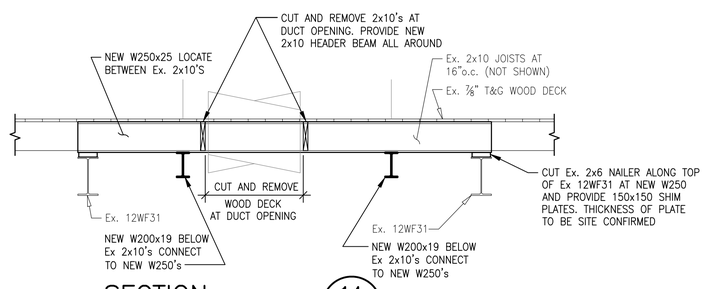
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SECTION 13 S2.01
Scale: 1:25



SECTION 12 S2.01
Scale: 1:25



SECTION 14 S2.02
Scale: 1:25

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	61652_002	Drawn By:	AMM
		Revised:	MARCH 2026

PART LOW ROOF FRAMING PLAN

S2.02

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PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	FIXTURE MANUFACTURER & MODEL	TRIM MANUFACTURER & MODEL	REMARKS
EEW-1	WALL-MOUNT EMERGENCY EYE / FACE WASH	HAWS 7260BT-7270BT	N/A	EYE / FACE WASH C/W WALL BRACKET, PLASTIC BOWL, POP-OFF DUST COVERS, PUSH FLAG ACTIVATION, STAINLESS STEEL BALL & STEM VALVE, STRAINER, 3.7 GPM (14.0 LPM) FLOW CONTROL. THERMOSTATIC MIXING VALVE (HAWS 9201EW) C/W ISOLATION CHECK VALVES FOR EACH INLET / OUTLET, 10 GPM (38.8 LPM). UNIVERSAL SIGN. CHROME WASTE KIT C/W TAILPIECE, TRAP.
KS-1	COUNTER-MOUNT SINK ONE COMPARTMENT ONE LEVER	FRANKE LBS4607-1	MOEN MDURA 8701	STAINLESS STEEL, TOP-MOUNT FIXTURE C/W 16"X14"X7" DEEP (406MMX350MMX150MM) COMPARTMENT, UNDERCOAT, NO OVERFLOW, THREE TRIM HOLES ON 4" (100MM) CENTRES. CHROME TRIM C/W 9" (225MM) SPOUT, 1.5 GPM (5.7 LPM) AERATOR, LIMIT STOP SET FOR MAX DELIVERY OF 109F (42C). SUPPLY KIT (DAHL E13-2277) C/W ESCUTCHEONS, ANGLE STOPS, STAINLESS STEEL BRAIDED HOSES. WASTE KIT C/W CRUMB CUP STRAINER, TAILPIECE, TRAP.
L-1	WALL-MOUNT LAVATORY TOUCHLESS (HARDWIRED) BARRIER FREE	AMERICAN STANDARD MURRO 0954.004EC C/W 0059.020EC	MOEN MPOWER 8551AC	VITREOUS CHINA FIXTURE C/W EVERCLEAN, REAR OVERFLOW, SHROUD/KNEE CONTACT GUARD, ONE TRIM HOLE. CONCEALED ARM SUPPORT SYSTEM (ZURN Z1231 FOR STUD WALL, ZURN Z1251 FOR BLOCK WALL). CHROME TRIM C/W 0.5 GPM (1.9 LPM) VANDAL-RESISTANT AERATOR,TRANSFORMER (MOEN 104630), WIRING. SUPPLY KIT (DAHL E13-2277) C/W ESCUTCHEONS, ANGLE STOPS, STAINLESS STEEL BRAIDED HOSES. WASTE KIT C/W OPEN-GRID STRAINER, OFFSET TAILPIECE, TRAP.
L-2	WALL-MOUNT LAVATORY TOUCHLESS (HARDWIRED)	AMERICAN STANDARD LUCERNE 0355.012	MOEN MPOWER 8551AC	VITREOUS CHINA FIXTURE C/W EVERCLEAN, FRONT OVERFLOW, ONE TRIM HOLE. CONCEALED ARM SUPPORT SYSTEM (ZURN Z1231 FOR STUD WALL, ZURN Z1251 FOR BLOCK WALL). CHROME TRIM C/W 0.5 GPM (1.9 LPM) VANDAL-RESISTANT AERATOR, TRANSFORMER (MOEN 104630), WIRING. SUPPLY KIT (DAHL E13-2277) C/W ESCUTCHEONS, ANGLE STOPS, STAINLESS STEEL BRAIDED HOSES. WASTE KIT C/W OPEN-GRID STRAINER, OFFSET TAILPIECE, TRAP.
MS-1	MOP SINK	FIAT MSB-2424	MOEN MDURA 8124	24"X24"X10" DEEP (600MMX600MMX250MM) MOLDED STONE FIXTURE C/W FIBREGLASS REINFORCED PANEL (FRP) WALL GUARD (ON ALL SIDES ADJACENT TO A WALL), 4' (1200MM) REINFORCED HOSE, HOSE BRACKET, MOP HANGER, STAINLESS STEEL DRAIN BODY / DOME / LINT BASKET. CHROME TRIM C/W TWO LEVER HANDLES, WALL-MOUNTING BRACKET, PAIL HOOK, 10.25" (255MM) SPOUT REACH, HOSE END OUTLET, VACUUM BREAKER, SERVICE STOPS, CHECK STOPS.
WC-1	FLOOR-MOUNT WATER CLOSET TOUCHLESS FLUSH VALVE (HARDWIRED) BARRIER FREE	AMERICAN STANDARD MADERA 3461.001	DELTA 517201-6-WMSHWA	VITREOUS CHINA, ELONGATED, 16.5" (410MM) HIGH FIXTURE C/W TOP SPUD, SEAT (CENTOCO 926TS-001, ELONGATED, OPEN FRONT, COVER, STAINLESS STEEL HARDWARE). CHROME, EXPOSED, FLUSH VALVE C/W ANGLE STOP VALVE, TOP SPUD, VACUUM BREAKER, MANUAL OVERRIDE, 1.6 GPF (6.0 LPF), RECESSED WALL-MOUNT SENSOR (MOUNT WITH CENTRELINE OF SENSOR MAX 24" (600MM) ABOVE TOP OF FIXTURE ENSURING SENSOR IS ABOVE OPEN SEAT & DOES NOT INTERFER WITH GRAB BARS), TRANSFORMER, WIRING.
WC-2	FLOOR-MOUNT WATER CLOSET TOUCHLESS FLUSH VALVE (HARDWIRED)	AMERICAN STANDARD MADERA 3451.001	MOEN MPOWER 8310AC16	VITREOUS CHINA, ELONGATED, 15" (375MM) HIGH FIXTURE C/W TOP SPUD, SEAT (CENTOCO 500STSCC-001, ELONGATED, OPEN FRONT, NO COVER, STAINLESS STEEL HARDWARE). CHROME, EXPOSED, FLUSH VALVE C/W ANGLE STOP VALVE, TOP SPUD, VACUUM BREAKER, MANUAL OVERRIDE, 1.6 GPF (6.0 LPF), TRANSFORMER (MOEN 104630), WIRING.

NOTES:

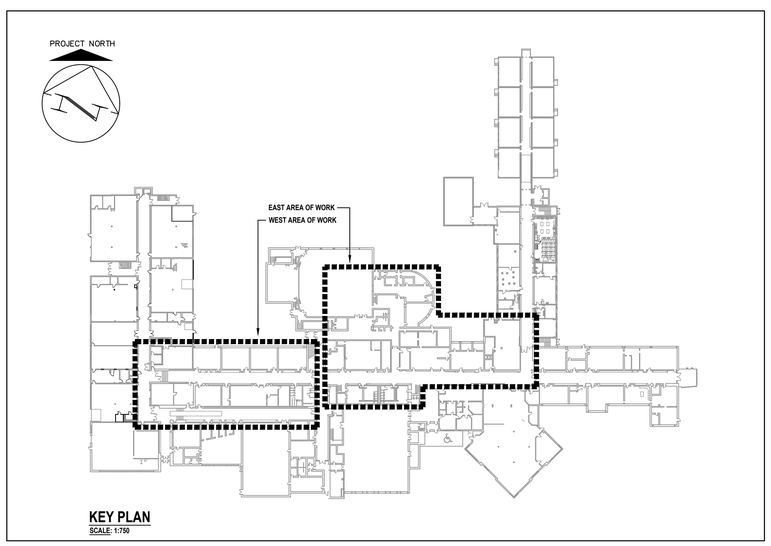
- COLOUR OF ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.
- ALL WATER CLOSET SEATS SHALL BE BLACK.
- QUANTITY OF FIXTURES & EQUIPMENT ARE AS INDICATED ON DRAWINGS.
- REFER TO MECH SPEC FOR REQ'D MOUNTING HEIGHT OF ALL FIXTURES & EQUIPMENT. VERIFY ON SITE & ADJUST TO SUIT ARCH.
- PROVIDE HOLES IN STAINLESS STEEL FIXTURES TO SUIT TRIM.
- REFER TO MANUFACTURER'S DATA TO DETERMINE QUANTITY OF TRANSFORMERS REQUIRED TO SUIT QUANTITY OF TOUCHLESS FIXTURES & MAX ALLOWABLE WIRE LENGTH BETWEEN EACH DEVICE & TRANSFORMER. PROVIDE LOW VOLTAGE WIRING TO SUIT. COORDINATE LINE VOLTAGE REQUIREMENTS WITH ELEC TRADE.
- LAVATORY / SINK DOMESTIC WATER & SANITARY PIPING ROUGH-INS MUST BE FULLY COORDINATED TO ENSURE SUPPLY & WASTE KITS ARE COMPLETELY CONCEALED BY PROPERLY INSTALLED SHROUDS.

MIXING VALVE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
MV-1	THERMOSTATIC MIXING VALVE FLOW: 8.97 GPM (0.56 L/S) AT 8.2 PSI (56.5 KPA) MAX PRESSURE DROP 0.5 GPM MIN (0.03 L/S)	BRADLEY NAVIGATOR S59-2025/B/T	PROVIDE: - INTEGRAL CHECK VALVES & STRAINERS. - WALL-MOUNT BRACKET. - BRASS FINISH. - STANDARD THERMOSTAT. - DIAL THERMOMETER. - SET TO 109F (42.7C).

PLUMBING BRANCH PIPING SCHEDULE

FIXTURE	SYMBOL	SANITARY	VENT	COLD WATER	HOT WATER
EMERGENCY EYE / FACE WASH	EEW	32	32	13	13
FLOOR DRAIN	FD	75 OR AS SHOWN	38	C/W PRIME LINE	
KITCHEN SINK	KS	38	32	13	13
LAVATORY	L	32	32	13	13
MOP SINK	MS	75	38	13	13
WATER CLOSET (FV)	WC	75	38	25	-



KEY PLAN
SCALE: 1:750

LEGEND

SYMBOL	DESCRIPTION
AAV	AUTOMATIC AIR VENT
HVAC	ROOFTOP UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFS	BOTTLE FILLING STATION
C	CONVECTOR HEATER
CBV	CIRCUIT BALANCING VALVE
CH	CONDENSATE HOOD
CO	CLEANOUT
CTE	CONNECT TO EXISTING
CV	CONTROL VALVE
CW	COLD WATER
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DV	DRAIN VALVE C/W HOSE END
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD HEATER
ECM	ELECTRONICALLY COMMUTATED MOTOR
EEW	EMERGENCY EYEWASH
EF	EXHAUST FAN
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
E/A	EXHAUST AIR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FFD	FUNNEL FLOOR DRAIN
FHC	FIRE HOSE CABINET
FRDG	FIRE RATED DOOR GRILLE
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HPG	HIGH PRESSURE GAS
HW	HOT WATER
HWH	HEATING WATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
H/L	HIGH LEVEL
KH	KITCHEN HOOD
KS	KITCHEN SINK
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
L/L	LOW LEVEL
MD	MOTORIZED DAMPER
MS	MOP SINK
MV	MIXING VALVE
MZ	MULTIZONE
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
PN	PNEUMATIC
PRV	PRESSURE REDUCING VALVE
PV	PLUMBING VENT ROOF TERMINATION
RCW	RESIDENTIAL CLOTH WASHER
RD	ROOF DRAIN
RDW	RESIDENTIAL DISHWASHER
REL	RELOCATE FROM THIS LOCATION
REL'D	RELOCATE TO THIS LOCATION
RP	RADIANT PANEL HEATER
R/A	RETURN AIR
S/A	SUPPLY AIR
SW	STANDING WASTE
TD	TRANSFER DUCT
TO	TRANSFER OPENING
UH	UNIT HEATER
U/C	0.75" (19MM) UNDERCUT DOOR (BY OTHERS)
VFD	VARIABLE FREQUENCY DRIVE
VVT	VARIABLE VOLUME & TEMPERATURE
WC	WATER CLOSET
WF	WALLFIN HEATER

LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED/RELOCATED
N	REFERS TO NOTE ON THE SAME DRAWING/DETAIL
EF-1	EQUIPMENT TAG
HWAC-1	EQUIPMENT TAG
	DUCT / PIPE CAP
	SANITARY DRAIN BELOW FLOOR/GRADE
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
HWH	HEATING WATER PIPING
HWS	HEATING WATER SUPPLY PIPING
HWR	HEATING WATER RETURN PIPING
HPG	HIGH PRESSURE NATURAL GAS PIPING (5 PSIG (34.5 KPA))
	PIPING TURNING DOWN
	PIPING TURNING UP
	ISOLATION VALVE
CBV(5.0)	CIRCUIT BALANCING VALVE & FLOW RATE (L/S)
	PRESSURE REGULATING VALVE (PRV)
	ELECTRIC AUTOMATIC CONTROL VALVE
	UNION
	HOSE BIBB
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER
	CONNECT TO EXISTING
	RECTANGULAR SUPPLY DUCT UP / DN
	RECTANGULAR RETURN OR EXHAUST DUCT UP / DN
	FLEXIBLE DUCT
	RIGID ROUND DUCT (SINGLE LINE DESIGNATION)
	MANUAL BALANCING DAMPER
F	FIRE DAMPER
S	SMOKE DAMPER
250	AIRFLOW (L/S)
500X300-A	GRILLE/DIFFUSER SIZE (MM) & TYPE
A	GRILLE/DIFFUSER TYPE
500X300	GRILLE/DIFFUSER SIZE (MM)
	ACOUSTIC LINING
	DUCT SIZE TRANSITION
	PIPE SIZE TRANSITION
	TRANSITION RECTANGULAR TO ROUND
S	SLOPE DUCT DOWN IN DIRECTION OF AIRFLOW
S	SLOPE DUCT UP IN DIRECTION OF AIRFLOW
G	ROUND BRANCHES TURNING DOWN
	ROUND BRANCHES TURNING UP
	FLEXIBLE CONNECTION
TO	TRANSFER OPENING
VVT	VVT AUTOMATIC CONTROL DAMPER
T VT	SPACE-MOUNTED VVT THERMOSTAT & ZONE CONTROLLED
T AC-8	SPACE-MOUNTED THERMOSTAT & UNIT CONTROLLED
DG	DOOR GRILLE
FRDG	FIRE RATED DOOR GRILLE
TO	TRANSFER DUCT
U/C	19MM UNDERCUT DOOR (BY OTHERS)
	120V POWER SOURCE

DRAWING LIST

M1.1	DRAWING LIST, KEY PLAN, LEGEND & PLUMBING SCHEDULES
M1.2	HVAC SCHEDULES
M1.3	DETAILS
M1.4	DETAILS (CONTINUED)
M2.1	GROUND FLOOR EAST PIPING DEMOLITION PLAN
M2.2	GROUND FLOOR EAST DUCTWORK DEMOLITION PLAN
M2.3	GROUND & SECOND FLOOR WEST PIPING DEMOLITION PLANS
M2.4	GROUND & SECOND FLOOR WEST DUCTWORK DEMOLITION PLANS
M2.5	ROOF EAST MECHANICAL DEMOLITION PLAN
M2.6	ROOF WEST & MECH ROOMS MECHANICAL DEMOLITION PLANS
M3.1	GROUND FLOOR EAST PIPING RENOVATION PLAN
M3.2	GROUND FLOOR EAST DUCTWORK RENOVATION PLAN
M3.3	GROUND & SECOND FLOOR WEST PIPING RENOVATION PLANS
M3.4	GROUND & SECOND FLOOR WEST DUCTWORK RENOVATION PLANS
M3.5	ROOF EAST MECHANICAL RENOVATION PLAN
M3.6	ROOF WEST & MECH ROOMS MECHANICAL RENOVATION PLANS
SP1.1	LEGEND, KEY PLAN & GROUND FLOOR EAST SPRINKLER PLAN
SP1.2	GROUND FLOOR WEST SPRINKLER PLAN
SP1.3	SECOND FLOOR WEST SPRINKLER PLAN

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WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	26012
Drawn By:	J.S.S.
Checked By:	K.K.

DRAWING LIST, KEY PLAN, LEGEND & PLUMBING SCHEDULES

M1.1

ROOFTOP UNIT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
HVAC-18	HEAT PUMP & GAS HEATING / ELEC (DX) COOLING ROOFTOP UNIT AIR FLOW: SUPPLY: 4000 CFM (1887 L/S) AT 1.4" WC (0.35 KPA) ESP EXHAUST (POWERED): 4000 CFM (1887 L/S) HEAT PUMP HEATING: 80.9 MBH (23.6 KW) AT 17F (-8C) OAT GAS HEATING: INPUT (NATURAL GAS): 300 CFH (2.3 L/S) OUTPUT: 243 MBH (71.1KW) ELEC (DX) COOLING: 11.1 TONS / 133 MBH (39.2 KW) TOTAL, 99 MBH (29.0 KW) SENSIBLE	DAIKIN DPSH10B	575-3-60, 27.6 MCA, 40 MOCP. 74"W X 102"L X 86"H (1550MM X 2550MM X 2150MM) OVERALL, 74"W X 80"L (1850MM X 2000MM) CURB, 2416 LB (1095 KG). PROVIDE: - PAINTED GALVANIZED EXTERIOR. - 1" (25MM) INJECTED FOAM INSULATION (R-7) C/W GALVANIZED STEEL LINER. - BOTTOM SUPPLY & RETURN CONNECTIONS. - 100% ECONOMIZER & POWERED EXHAUST FAN (DIRECT DRIVE C/W EC MOTOR). - 2" (50MM) MERV 8 FILTERS & 4" (100MM) BLANK FILTER RACK. - R-32 REFRIGERANT. - HEAT PUMP / DX COOLING COIL. - STAINLESS STEEL CONDENSATE DRAIN PAN. - MODULATING INVERTER SCROLL COMPRESSORS C/W RUBBER ISOLATORS. - MODULATING HOT GAS REHEAT COIL. - SUPPLY FAN (DIRECT DRIVE C/W EC MOTOR) C/W ISOLATORS. - GAS HEATING (MODULATING 5:1 TURNDOWN) C/W STAINLESS STEEL HEAT EXCHANGER. - HINGED ACCESS PANELS. - FLUE DISCHARGE DEFLECTOR. - LOUVERED HAIL GUARDS. - PHASE MONITOR PROTECTION. - DIGITAL READY CONTROLS SUITABLE FOR BAS INTEGRATION BY CONTROLS TRADE. - NON-FUSED DISCONNECT. - THRU-THE-BASE ELECTRICAL CONNECTIONS. - 24" (600MM) HIGH DOWN DISCHARGE INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE TOP GASKET.
HVAC-19,20	HEAT PUMP & GAS HEATING / ELEC (DX) COOLING ROOFTOP UNIT AIR FLOW: SUPPLY: 6000 CFM (2831 L/S) AT 1.2" WC (0.3 KPA) ESP EXHAUST (POWERED): 6000 CFM (2831 L/S) HEAT PUMP HEATING: 122 MBH (35.8 KW) AT 17F (-8C) OAT GAS HEATING: INPUT (NATURAL GAS): 400 CFH (3.1 L/S) OUTPUT: 324 MBH (94.8 KW) ELEC (DX) COOLING: 15.3 TONS / 184 MBH (54.0 KW) TOTAL, 143 MBH (41.9 KW) SENSIBLE	DAIKIN DPSH15B	575-3-60, 40.2 MCA, 60 MOCP. 74"W X 102"L X 86"H (1550MM X 2550MM X 2150MM) OVERALL, 74"W X 80"L (1850MM X 2000MM) CURB, 2633 LB (1194 KG). PROVIDE: - PAINTED GALVANIZED EXTERIOR. - 1" (25MM) INJECTED FOAM INSULATION (R-7) C/W GALVANIZED STEEL LINER. - BOTTOM SUPPLY & RETURN CONNECTIONS. - 100% ECONOMIZER & POWERED EXHAUST FAN (DIRECT DRIVE C/W EC MOTOR). - 2" (50MM) MERV 8 FILTERS & 4" (100MM) BLANK FILTER RACK. - R-32 REFRIGERANT. - HEAT PUMP / DX COOLING COIL. - STAINLESS STEEL CONDENSATE DRAIN PAN. - MODULATING INVERTER SCROLL COMPRESSORS C/W RUBBER ISOLATORS. - MODULATING HOT GAS REHEAT COIL. - SUPPLY FAN (DIRECT DRIVE C/W EC MOTOR) C/W ISOLATORS. - GAS HEATING (MODULATING 5:1 TURNDOWN) C/W STAINLESS STEEL HEAT EXCHANGER. - HINGED ACCESS PANELS. - FLUE DISCHARGE DEFLECTOR. - LOUVERED HAIL GUARDS. - PHASE MONITOR PROTECTION. - DIGITAL READY CONTROLS SUITABLE FOR BAS INTEGRATION BY CONTROLS TRADE. - NON-FUSED DISCONNECT. - THRU-THE-BASE ELECTRICAL CONNECTIONS. - 24" (600MM) HIGH DOWN DISCHARGE INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE TOP GASKET.
HVAC-21	HEAT PUMP & GAS HEATING / ELEC (DX) COOLING ROOFTOP UNIT AIR FLOW: SUPPLY: 2000 CFM (943 L/S) AT 0.8" WC (0.2 KPA) ESP HEAT PUMP HEATING: 46 MBH (13.5 KW) AT 17F (8C) OAT GAS HEATING: INPUT (NATURAL GAS): 160 CFH (1.2 L/S) OUTPUT: 129.6 MBH (37.9 KW) ELEC (DX) COOLING: 5.0 TONS / 60 MBH (17.8 KW) TOTAL, 47 MBH (13.8 KW) SENSIBLE	DAIKIN DPSH05B	575-3-60, 15.3 MCA, 20 MOCP. 54"W X 85"L X 70"H (1350MM X 2125MM X 1750MM) OVERALL, 54"W X 67"L (1350MM X 1675MM) CURB, 1170 LB (530 KG). PROVIDE: - PAINTED GALVANIZED EXTERIOR. - 1" (25MM) INJECTED FOAM INSULATION (R-7) C/W GALVANIZED STEEL LINER. - BOTTOM SUPPLY & RETURN CONNECTIONS. - 100% ECONOMIZER & BAROMETRIC RELIEF. - 2" (50MM) MERV 8 FILTERS & 4" (100MM) BLANK FILTER RACK. - R-32 REFRIGERANT. - HEAT PUMP / DX COOLING COIL. - STAINLESS STEEL CONDENSATE DRAIN PAN. - MODULATING INVERTER SCROLL COMPRESSORS C/W RUBBER ISOLATORS. - MODULATING HOT GAS REHEAT COIL. - SUPPLY FAN (DIRECT DRIVE C/W EC MOTOR) C/W ISOLATORS. - GAS HEATING (MODULATING 5:1 TURNDOWN) C/W STAINLESS STEEL HEAT EXCHANGER. - HINGED ACCESS PANELS. - FLUE DISCHARGE DEFLECTOR. - LOUVERED HAIL GUARDS. - PHASE MONITOR PROTECTION. - DIGITAL READY CONTROLS SUITABLE FOR BAS INTEGRATION BY CONTROLS TRADE. - NON-FUSED DISCONNECT. - THRU-THE-BASE ELECTRICAL CONNECTIONS. - 24" (600MM) HIGH DOWN DISCHARGE INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE TOP GASKET.
HVAC-22	HEAT PUMP & GAS HEATING / ELEC (DX) COOLING ROOFTOP UNIT AIR FLOW: SUPPLY: 1600 CFM (755 L/S) AT 1.0" WC (0.3 KPA) ESP HEAT PUMP HEATING: 45 MBH (13.3 KW) AT 17F (8C) OAT GAS HEATING: INPUT (NATURAL GAS): 120 CFH (0.9 L/S) OUTPUT: 97 MBH (28.4 KW) ELEC (DX) COOLING: 4.1 TONS / 49 MBH (14.6 KW) TOTAL, 38 MBH (11.3 KW) SENSIBLE	DAIKIN DPSH04B	575-3-60, 15.3 MCA, 20 MOCP. 54"W X 85"L X 70"H (1350MM X 2125MM X 1750MM) OVERALL, 54"W X 67"L (1350MM X 1675MM) CURB, 1142 LB (518 KG). PROVIDE: - PAINTED GALVANIZED EXTERIOR. - 1" (25MM) INJECTED FOAM INSULATION (R-7) C/W GALVANIZED STEEL LINER. - BOTTOM SUPPLY & RETURN CONNECTIONS. - 100% ECONOMIZER & BAROMETRIC RELIEF. - 2" (50MM) MERV 8 FILTERS & 4" (100MM) BLANK FILTER RACK. - R-32 REFRIGERANT. - HEAT PUMP / DX COOLING COIL. - STAINLESS STEEL CONDENSATE DRAIN PAN. - MODULATING INVERTER SCROLL COMPRESSORS C/W RUBBER ISOLATORS. - MODULATING HOT GAS REHEAT COIL. - SUPPLY FAN (DIRECT DRIVE C/W EC MOTOR) C/W ISOLATORS. - GAS HEATING (MODULATING 5:1 TURNDOWN) C/W STAINLESS STEEL HEAT EXCHANGER. - HINGED ACCESS PANELS. - FLUE DISCHARGE DEFLECTOR. - LOUVERED HAIL GUARDS. - PHASE MONITOR PROTECTION. - DIGITAL READY CONTROLS SUITABLE FOR BAS INTEGRATION BY CONTROLS TRADE. - NON-FUSED DISCONNECT. - THRU-THE-BASE ELECTRICAL CONNECTIONS. - 24" (600MM) HIGH DOWN DISCHARGE INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE TOP GASKET.

ENERGY RECOVERY VENTILATOR SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
ERV-2	HIGH LATENT TRANSFER ENTHALPY CORE ENERGY RECOVERY VENTILATOR AIR FLOW: OUTDOOR: 1700 CFM (802 L/S) AT 0.6" WC (0.14 KPA) ESP EXHAUST: 1700 CFM (802 L/S) AT 0.7" WC (0.16 KPA) ESP WINTER RECOVERY: -4F (-19C) DB / -5F (-20C) WB OAT, 72F (22C) DB / 54F (12C) WB EAT, 116 MBH (33.9 KW) TOTAL (64.6%) SUMMER RECOVERY: 90F (32C) DB / 75F (23C) WB OAT, 75F (23C) DB / 63F (17C) WB EAT, 3.5 TONS / 42 MBH TOTAL (12.2 KW) (53.5%)	ALDES PE20	575-3-60, 4 MCA, 15 MOCP. 39"W X 85"D X 45"H (975MM X 2075MM X 1125MM), 1100 LB (498 KG). PROVIDE: - 22 GAUGE PAINTED GALVANIZED STEEL EXTERIOR. - 1" (25MM) INSULATION C/W GALVANIZED STEEL LINER. - BOTTOM SUPPLY & RETURN CONNECTIONS. - 2" (50MM) MERV 8 SUPPLY & EXHAUST FILTERS. - GALVANIZED STEEL CONDENSATE DRAIN PAN C/W TUBING. - OUTDOOR & EXHAUST FORWARD-CURVED FANS C/W BELT DRIVE MOTORS. - HINGED ACCESS PANELS. - INTEGRAL EXHAUST ONLY FROST CONTROL C/W TEMPERATURE SENSOR. - OUTDOOR & EXHAUST INSULATED MOTORIZED DAMPERS. - OUTDOOR & EXHAUST HOODS C/W BIRDSCREEN. - DRY CONTRACTS (START / STOP, GENERAL ALARM, ETC) SUITABLE FOR BAS INTEGRATION BY CONTROLS TRADE. - NON-FUSED DISCONNECT. - THRU-THE-BASE ELECTRICAL CONNECTIONS. - 24" (600MM) HIGH DOWN DISCHARGE INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE TOP GASKET. - AIR BALANCING AS FOLLOWS: - HVAC-18: 450 CFM (212 L/S) - HVAC-19: 650 CFM (306 L/S) - HVAC-20: 600 CFM (283 L/S)

VVT DAMPER SCHEDULE (HVAC-18)

ZONE	SPACES SERVED	SIZE (MM)	AIRFLOW (L/S)	
			DESIGN	BALANCING
A1	501 CLASSROOM	350X300	400	495
A2	503 CLASSROOM	350X300	375	465
A3	505 CLASSROOM	350X300	375	465
A4	507 CLASSROOM	350X300	375	465
AB	BY-PASS	900X300	-	-

VVT DAMPER SCHEDULE (HVAC-19)

ZONE	SPACES SERVED	SIZE (MM)	AIRFLOW (L/S)	
			DESIGN	BALANCING
B1	522 CLASSROOM	450X350	740	540
B2	524 CLASSROOM	450X350	730	535
B3	526 CLASSROOM	450X350	730	535
B4	528 CLASSROOM	450X350	730	535
B5	530 CLASSROOM	500X350	935	685
BB	BY-PASS	800X450	-	-

VVT DAMPER SCHEDULE (HVAC-20)

ZONE	SPACES SERVED	SIZE (MM)	AIRFLOW (L/S)	
			DESIGN	BALANCING
C1	521 COMPUTER CLASSROOM	400X350	655	645
C2	521A OFFICE	250Ø	160	160
C3	523 COMPUTER CLASSROOM	400X350	625	620
C4	525 COMPUTER CLASSROOM	400X350	625	620
C5	527 CLASSROOM	350X350	540	535
C6	560 RESOURCE	250Ø	115	115
C7	561 OFFICE	250Ø	135	135
CB	BY-PASS	900X450	-	-

VVT DAMPER SCHEDULE (HVAC-22)

ZONE	SPACES SERVED	SIZE (MM)	AIRFLOW (L/S)	
			DESIGN	BALANCING
D1	317A DIETICIAN	200Ø	65	55
D2	318 STAFF DINING	350X300	390	325
D3	319 SERVERY	350X300	445	375
DB	BY-PASS	500X300	-	-

EXHAUST FAN SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
EF-19	ROOF-MOUNTED DOWNBLAST EXHAUST FAN AIR FLOW: 700 CFM (330 L/S) AT 0.8" WC (0.2 KPA) ESP	COOK ACE-B (120C OR91)	575-3-60, 1/3 HP (248 W), 20"W X 20"L X 27"H (500MM X 500MM X 675MM), 96 LB (43 KG). PROVIDE: - BELT DRIVE. - BIRD SCREEN. - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - 24" (600 MM) HIGH INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE GASKET. - CONTROLLED BY BAS. WHEN GYM AHU IS IN OCCUPIED MODE, EF-19 IS TO BE ON.
EF-20	INLINE EXHAUST FAN AIR FLOW: 600 CFM (283 L/S) AT 0.7" WC (0.1 KPA) ESP	COOK SQN-D VF (120SQN28DO71VF)	208-1-60, 1/2 HP (372 W). PROVIDE: - GRAVITY BACKDRAFT DAMPER. - ACOUSTICALLY LINED HOUSING. - DIRECT DRIVE. - UNIT-MOUNTED 120V VARIABLE SPEED CONTROLLER (FOR AIRFLOW BALANCING). - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - NEOPRENE ISOLATORS. - CONTROLLED BY BAS. WHEN SCHOOL IS IN OCCUPIED MODE, EF-20 IS TO BE ON.
EF-21	ROOF-MOUNTED UPBLAST EXHAUST FAN (NFPA 96 KITCHEN HOOD) AIR FLOW: 775 CFM (365 L/S) AT 1.8" WC (0.4 KPA) ESP	COOK VCR-HP (150VH6B)	208-1-60, 3/4 HP (559 W), 24"W X 24"L X 28"H (600MM X 600MM X 700MM), 141 LB (63 KG). PROVIDE: - UL762 LISTING. - GREASE DRAIN TO SEPARATOR BOX. - HINGED ACCESS. - BELT DRIVE. - BIRD SCREEN. - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - LOAD REACTOR. - HIGH HEAT OPERATION. - NON-COMBUSTIBLE VENTED ROOF CURB. SIZE TO PERMIT INSTALLATION OF DUCTWORK C/W FIRE-RATED INSULATION. HEIGHT TO ENSURE MIN 18" (450MM) FROM BOTTOM OF FAN & 40" (1000MM) FROM TOP OF FAN TO ROOF. - CONTROLLED BY KITCHEN HOOD (KH) CONTROL PANEL & MONITORED BY BAS. WHEN KH IS ON, RTU-21 O/A PERCENTAGE TO MATCH (WHILE ALSO CONSIDERING EF-22 AIR FLOW).
EF-22	INLINE EXHAUST FAN (CONDENSATE HOOD) AIR FLOW: 350 CFM (165 L/S) AT 0.6" WC (0.1 KPA) ESP	COOK SQN-B (60SQN-B)	208-1-60, 1 HP (745 W). PROVIDE: - BELT DRIVE. - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - NEOPRENE ISOLATORS. - MOTOR GUARD. - ALUMINUM CONSTRUCTION. - CONTROLLED BY COMMERCIAL DISHWASHER (CDW) WITH ELEC INTERLOCK & MONITORED BY BAS. WHEN CDW IS ON, EF-22 IS TO BE ON. WHEN EF-22 IS ON, RTU-21 O/A PERCENTAGE TO MATCH (WHILE ALSO CONSIDERING EF-21 AIR FLOW).
EF-23	ROOF-MOUNTED DOWNBLAST EXHAUST FAN AIR FLOW: 475 CFM (225 L/S) AT 0.4" WC (0.1 KPA) ESP	COOK ACE-B (120C OR91)	575-3-60, 1/3 HP (248 W), 20"W X 20"L X 27"H (500MM X 500MM X 675MM), 96 LB (43 KG). PROVIDE: - BELT DRIVE. - BIRD SCREEN. - NON-FUSED DISCONNECT. - OVERLOAD PROTECTION. - 24" (600 MM) HIGH INSULATED ROOF CURB C/W FULL PERIMETER NEOPRENE GASKET. - CONTROLLED BY BAS. WHEN SPACE TEMPERATURE IS EXCEEDED, MOTORIZED DAMPER IS TO OPEN & EF-23 IS TO BE ON.

DIFFUSER & GRILLE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
A	ADJUSTABLE SQUARE CEILING DIFFUSER	KRUEGER 1450A-F23-24X24-00-00-44	PROVIDE LAY-IN T-BAR FRAME, 24"X24" (600MM X 600MM) PANEL SIZE, WHITE.
B	FIXED BLADE RETURN / TRANSFER / EXHAUST GRILLE	KRUEGER S85-H-F22-NONE-01-00-00-44	PROVIDE 0.5" (13MM) BLADE SPACING, HORIZONTAL FRONT BLADES, SURFACE-MOUNT FRAME, SCREW HOLE MOUNTING, WHITE.
C	EGGCRATE EXHUAST GRILLE	KRUEGER EGC5-F22-NONE-01-01-00-44	PROVIDE 0.5" (13MM) CORE, SURFACE-MOUNT FRAME, SCREW HOLE MOUNTING, OPPOSED BLADE DAMPER, WHITE.
D	EGGCRATE RETURN GRILLE	KRUEGER EG5-FTB-44	PROVIDE 0.5" (13MM) CORE, CHANNEL FRAME FOR LAY-IN, WHITE.
E	FIXED BLADE EXHAUST GRILLE	KRUEGER S85-H-F22-NONE-01-01-00-44	PROVIDE 0.5" (13MM) BLADE SPACING, HORIZONTAL FRONT BLADES, SURFACE-MOUNT FRAME, SCREW HOLE MOUNTING, OPPOSED BLADE DAMPER, WHITE.
F	DOUBLE DEFLECTION EXHAUST GRILLE	KRUIEGER 880-H-F22-NONE-01-00-00-44	PROVIDE 0.75" (19MM) BLADE SPACING, HORIZONTAL FRONT BLADES, SURFACE-MOUNT FRAME, SCREW HOLE MOUNTING, WHITE.
G	EGGCRATE TRANSFER GRILLE	KRUEGER EGC5-F22-NONE-01-00-00-44	PROVIDE 0.5" (13MM) CORE, SURFACE-MOUNT FRAME, SCREW HOLE MOUNTING, WHITE.

RADIANT PANEL HEATER SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
RP-1	CEILING-MOUNTED HEATING WATER RADIANT PANEL HEATER HEATING: 4.1 MBH (1.2 KW) AT 0.4 GPM (0.03 L/S) & 180F (82C) SWT / 160F (71C) RWT	SIGMA SLC 24-4	120"L X 24"W (3000MM X 600MM). PROVIDE: - LINEAR ALUMINUM EXTRUDED PANELS C/W TONGUE & GROOVE JOINTS. - 0.5" (13MM) ID COPPER TUBES. - EXTRUDED ALUMINUM CHANNEL CROSS BRACES. - STANDARD WHITE FINISH.

CONVECTOR HEATER SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	REMARKS
C-1	WALL-MOUNTED HEATING WATER CONVECTOR HEATER HEATING: 7.7 MBH (2.7 KW) AT 0.8 GPM (0.06 L/S) & 180F (82C) SWT / 160F (71C) RWT	SIGMA CWS	36"L X 32"H 8"W (900MM X 800MM X 200MM). PROVIDE: - PAINT COLOUR BY ARCH.
C-2	WALL-MOUNTED HEATING WATER CONVECTOR HEATER HEATING: 16.4 MBH (5.0 KW) AT 1.7 GPM (0.11 L/S) & 180F (82C) SWT / 160F (71C) RWT	SIGMA CWS	72"L X 32"H X 8"W (1800MM X 800MM X 200MM). PROVIDE: - PAINT COLOUR BY ARCH.

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02.13.26	ISSUED FOR COORDINATION	K.K.
03.27.26	ISSUED FOR BID	K.K.

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

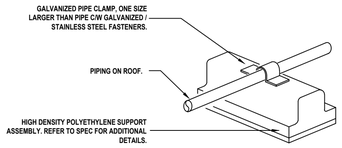
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyders Rd W, Baden, ON N3A 1A4

Checked By: K.K.
Drawn By: J.S.S.
Project No.: 26012

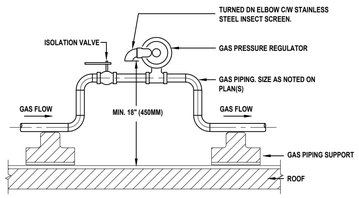
HVAC SCHEDULES

M1.2



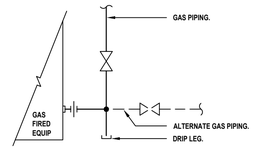
PIPING ROOF SUPPORT DETAIL

SCALE: NTS



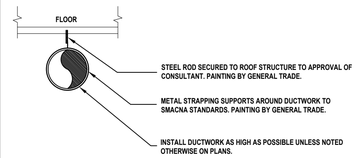
ROOF-MOUNTED GAS PRESSURE REGULATOR DETAIL

SCALE: NTS



GAS CONNECTION DETAIL

SCALE: NTS

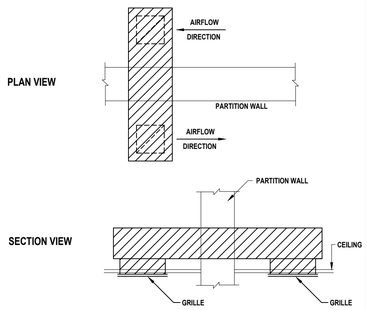


NOTE:

WHERE DESIRED, STEEL RODS & METAL STRAPPING SUPPORTS MAY BE REPLACED WITH GRAPPLE HANGFAST SYSTEM C/W LOCKING MECHANISM (GRAPPLE) & WIRE ROPE. REFER TO SPEC FOR ADDITIONAL DETAILS.

SPIRAL DUCT SUPPORT DETAIL

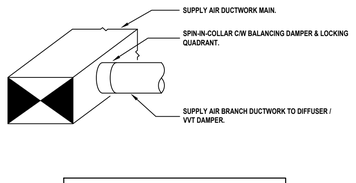
SCALE: NTS



NOTE:
OFFSET TRANSFER DUCT AS REQ'D TO SUIT CONFIGURATION OF CEILING ON BOTH SIDES OF WALL.

TRANSFER DUCT DETAIL

SCALE: NTS

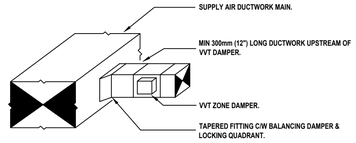


NOTE:

MARK DAMPER LOCATION UPON COMPLETION OF BALANCING.

BRANCH TAKE-OFF DETAIL

SCALE: NTS

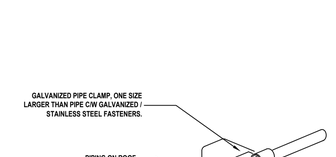


NOTE:

MARK DAMPER LOCATION UPON COMPLETION OF BALANCING.

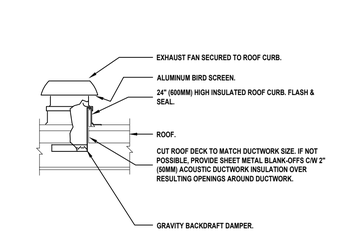
VVT DAMPER DETAIL

SCALE: NTS



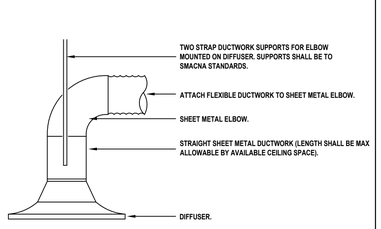
DUCTWORK ROOF PENETRATION DETAIL

SCALE: NTS



ROOF-MOUNTED EXHAUST FAN DETAIL

SCALE: NTS

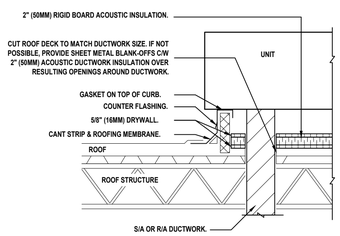


ROUND NECK DIFFUSER DETAIL

SCALE: NTS

NOTE:

INSTALL FLEXIBLE CONNECTIONS (NOT SHOWN) AT UNDERSIDE OF ROOFTOP UNIT OR ALTERNATIVELY IN S/A & R/A DUCTWORK (WHERE POSSIBLE, INSTALL IN HORIZONTAL DUCTWORK, TIGHT TO DUCTWORK RISER TO ROOFTOP UNIT).



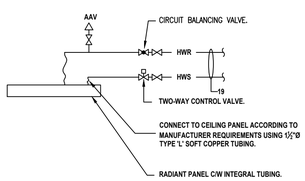
ROOFTOP UNIT DETAIL

SCALE: NTS

NOTES:

PROVIDE 1½" THERMAL INSULATION ON RADIANT PANELS C/W VAPOUR BARRIER FACING UP (FOIL FACE DOWN). REFER TO SPEC.

TWO-WAY CONTROL VALVE C/W ACTUATOR SUPPLIED BY CONTROLS TRADE & INSTALLED BY MECH TRADE.

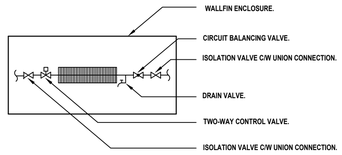


RADIANT PANEL HEATER PIPING DETAIL

SCALE: NTS

NOTE:

TWO-WAY CONTROL VALVE C/W ACTUATOR SUPPLIED BY CONTROLS TRADE & INSTALLED BY MECH TRADE.



WALLFIN / CONVECTOR HEATER PIPING DETAIL

SCALE: NTS

LICENSED PROFESSIONAL ENGINEER
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PROVINCE OF ONTARIO

MNE ENGINEERING
MNE Engineering Inc.
221 Kennedy Road, Unit 4
Kitchener, Ontario N2C 2S5
(519) 894-9408
www.mneengineering.co

02.13.26	ISSUED FOR COORDINATION	K.K.
03.27.26	ISSUED FOR BID	K.K.

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

DETAILS

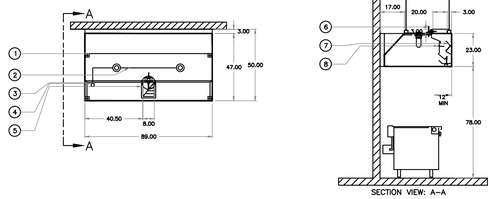
Project No.:	Drawn By:	Checked By:
26012	J.S.S.	K.K.

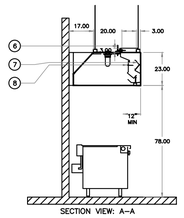
M1.3

HOOD PLAN AND SECTION VIEW:
ITEM. HOOD–1 Range and Oven

MODEL: DN–BF–7.42/3.92	HOOD TYPE
DRAWING NO. SR26145–ONW	REVLOW WALL MOUNTED

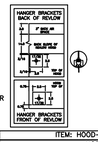
SPRING AIR SYSTEMS INC. HOODS ARE cULus AND UL LISTED, BUILT IN ACCORDANCE WITH UNDERWRITERS LABORATORIES UL710 STANDARD UNDER "EXHAUST HOODS WITHOUT EXHAUST FIRE DAMPERS", AND IN ACCORDANCE WITH UNDERWRITERS' LABORATORIES OF CANADA STANDARD S646–98, "HOODS FOR COMMERCIAL AND INSTITUTIONAL KITCHENS", CURRENT EDITION OF THE NFPA–96 AND INTERNATIONAL MECHANICAL CODE UNDER FILE NUMBERS MH26919 AND MH45396. HOODS COMPLY WITH NSF/ANSI 2 AND ALL APPLICABLE REQUIREMENTS. PRODUCTS APPEAR IN NSF OFFICIAL LISTING.





SECTION VIEW: A–A

1. HANGER BRACKET LOCATION
2. LIGHT FIXTURES INTERWIRED WITHIN EACH HOOD SECTION
3. T–COUPLE
4. J–Box for power supply to light fixture ● 120V/1/60 with total light wattage 200W
   WIRING TO CONTROL PANEL (OR NEXT HOOD SECTION) BY ELECTRICAL DIVISION
5. EXHAUST DUCT COLLAR C/W 1" PERIMETER FLANGE
6. 5" CLEARANCE ABOVE HOOD IS REQUIRED FOR WET CHEMICAL PIPING
7. VARIFLOW BAFFLE
8. REMOVABLE GREASE INSERT



HOOD EXHAUST DATA

ITEM: HOOD–1 Range and Oven
MODEL: DN–BF

HOOD SIZE		EXHAUST AIR FLOW REQUIREMENTS				GREASE EXTRACTOR	HOOD + PLENUM	
		TOTAL EXHAUST	STATIC PRESSURE	EXHAUST COLLAR QTY	EXHAUST COLLAR LENGTH	EXHAUST COLLAR WIDTH	FILTER TYPE	CONSTRUCTION	WEIGHT
L	W								
2261mm	1194mm	364 l/s	0.38 kPa	1	203mm	254mm	BUILT–IN BAFFLES	ALL 18GA. 304 S.S.	202 kg 445 lbs
89"	47"	772 CFM	1.5" W.C.		8"	10"			

REVISION	DATE	BY
CONTROL PANEL CHANGED, DRAWING PACKAGE ORDERING CHANGED	2–19–26	S.G.S.
REVISED APPLIANCES LAYOUT, DRAWING PACKAGE ORDERING CHANGED	2–23–26	S.G.S.
REVISED APPLIANCES LAYOUT, CONTROL PANEL CHANGED, DRAWING PACKAGE ORDERING CHANGED	3–17–26	S.G.S.

SPRING AIR SYSTEMS INC.
OAKVILLE, CANADA
(905) 338–2999

CUSTOMER O'DELL HVAC GROUP (ONW)
PROJECT WATERLOO OXFORD DISTRICT SECONDARY 2026

DATE 2–19–26
DRAWN ADAD
SCALE NONE
FILE NO.
DRAWING NO. SR26145–ONW

CTRL: 2
SHEET: 1–B
REV: 3

ANSUL: R–102 RESTAURANT FIRE SUPPRESSION SYSTEM

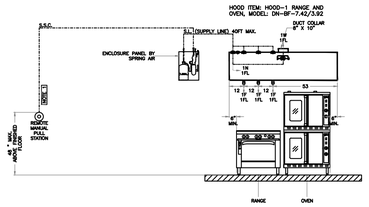
WET CHEMICAL FIRE SUPPRESSION FACTORY PRE–PIPING SCHEMATIC.
ANSUL R–102 FIRE SUPPRESSION SYSTEM IS DESIGNED IN COMPLIANCE WITH NFPA96 AND NFPA–17A, AS WELL UL STANDARD UL300 AND ULC/ORD–C1254.6–1995. COMPONENTS INDICATED ARE SUPPLIED BY SPRING AIR, OR BY A LICENSED/AUTHORIZED FIRE SUPPRESSION INSTALLER". ANY OTHER ITEM/COMPONENTS NOT SHOWN, THAT MAY BE REQUIRED BY LOCAL CODE REQUIREMENTS, ARE NOT INCLUDED.

APPLIANCES ELEVATION: ITEM. FS–1 Range and Oven
MODEL: WC–5–MW

APPLIANCE LINEUP APPROVED BY:
PRINT NAME
SIGNATURE

WET CHEMICAL FIRE SUPPRESSION NOTE:
1. TO BE INSTALLED BY A TECHNICIAN AUTHORIZED BY ANSUL.
2. THE FIRE SUPPRESSION SYSTEM IS TO BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE TO ANSUL'S USE MANUAL.
3. THE APPLIANCES ARRANGEMENT AND FUSIBLE LINE LOCATION ARE BASED ON THE APPLIANCES LAYOUT SUBMITTED BY SPRING AIR. ANY CHANGES TO THE APPLIANCES LAYOUT AND FUSE LOCATION MUST BE REVIEWED BEFORE APPLIANCES INSTALLED.

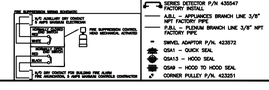
NOTE: FUSIBLE LINK SELECTION FOR HOODS 5 STYLE AND UL STYLE 450°C – 232°C



WALL MOUNTED CABINET	WEIGHT	C1: 55 LBS
	DIMENSIONS	1 @ 16.5 x 23.5 x 7.5

NOZZLE SUMMARY

APPLIANCE	NOZZLE	QTY	FLOW RATE	HEIGHT ABOVE COOKING SURFACE	COOKING SURFACE AREA PROTECTED (NO. X SIZE)
RANGE	10"	3	1PL	40"–48"	
BOOT PROTECTION	1B	1	1PL	NOZZLE PLACEMENT 2"–24" IN DUCT OPENING	
PLENUM PROTECTION	1A	1	1PL	HORIZONTAL PROTECTION	
SYSTEM FLOW POINT TOTAL			5PL		



LEGEND – BY: FIRE SUPPRESSION INSTALLER
- S.S.C. – 1/16" STAINLESS STEEL CABLE FIELD INSTALL IN 1/2" EMT CONDUIT.
- S.L. – SUPPLY LINE 3/8" NPT FIELD PIPE.

LEGEND – BY: SPRING AIR SYSTEMS INC.
- TERMINAL DETECTION P/N 430546 FACTORY INSTALL
- SERIES DETECTOR P/N 430547 FACTORY INSTALL
- A.B.L. – APPLIANCES BRANCH LINE 3/8" NPT FACTORY PIPE
- F.M.L. – PLENUM BRANCH LINE 3/8" NPT FACTORY PIPE
- SWIVEL ADAPTOR P/N. 423572
- QQ41 – QUICK SEAL
- QQ413 – HOOD SEAL
- QQ48 – HOOD TO HOOD SEAL
- CORNER PULLEY P/N. 423251

REVISION	DATE	BY
CONTROL PANEL CHANGED, DRAWING PACKAGE ORDERING CHANGED	2–19–26	S.G.S.
HOOD 1 CHANGED, DRAWING PACKAGE ORDERING CHANGED	2–23–26	S.G.S.
HOOD CHANGED, CONTROL PANEL CHANGED, DRAWING PACKAGE ORDERING CHANGED	3–17–26	S.G.S.

SPRING AIR SYSTEMS INC.
OAKVILLE, CANADA
(905) 338–2999

CUSTOMER O'DELL HVAC GROUP (ONW)
PROJECT WATERLOO OXFORD DISTRICT SECONDARY 2026

DATE 2–19–26
DRAWN ADAD
SCALE NONE
FILE NO.
DRAWING NO. SR26145–ONW

CTRL: 2
SHEET: 2–B
REV: 3

NFPA 96 MATERIALS CLASSIFICATION

TYPE OF WALL ASSEMBLY	CLASSIFICATION FOR DETERMINING HOOD & GREASE DUCT CLEARANCES *		
	NON COMBUSTIBLE	LIMITED COMBUSTIBLE	COMBUSTIBLE
BRICK, CLAY TILE, OR CONCRETE MASONRY PRODUCTS.	✓		
PLASTER, CERAMIC, OR QUARRY TILE ON BRICK. CLAY TILE OR CONCRETE MASONRY PRODUCTS.	✓		
PLASTER ON METAL LATH ON METAL STUDS.	✓		
GYPSUM BOARD ON METAL STUDS.		✓	
SOLID GYPSUM BOARD. **		✓	
PLASTER ON WOOD LATH OR METAL LATH, ON WOOD STUDS.			✓
GYPSUM BOARD ON WOOD STUDS.			✓
PLYWOOD OR OTHER WOOD SHEATHING ON WOOD OR METAL STUDS.			✓
TYPE OF FLOOR–CEILING OR ROOF–CEILING ASSEMBLY			
PLASTER APPLIED DIRECTLY TO UNDERSIDE OF CONCRETE SLAB.	✓		
SUSPENDED MEMBRANE CEILING WITH NON COMBUSTIBLE MINERAL WOOL ACOUSTICAL MATERIAL.	✓		
SUSPENDED MEMBRANE CEILING WITH COMBUSTIBLE FIBROUS TILE.			✓
GYPSUM BOARD ON STEEL JOISTS, CONCRETE SLAB.		✓	
GYPSUM BOARD ON WOOD JOISTS.			✓

NOTES:

* SEE CLEARANCE REQUIREMENTS IN NFPA96.

** SOLID GYPSUM WALLS AND PARTITIONS, 2" OR 2.25" THICKNESS, ARE DESCRIBED IN THE "FIRE RESISTANCE DESIGN MANUAL" PUBLISHED BY THE GYPSUM ASSOCIATION, WASHINGTON, DC.

- WALL ASSEMBLY DESCRIPTIONS ASSUME SAME FACING MATERIAL ON BOTH SIDES OF STUDS.
- CATEGORIES ARE NOT CHANGED BY THE USE OF FIRE RETARDANT TREATED WOOD PRODUCTS.
- CATEGORIES ARE NOT CHANGED BY THE USE OF TYPE X GYPSUM BOARD.
- SEE DEFINITIONS OF COMBUSTIBLE, LIMITED COMBUSTIBLE, AND NON COMBUSTIBLE IN NFPA96.

COMMERCIAL KITCHEN RPD–P CONTROLLER, CSA CERTIFIED
ITEM: PANEL–1, MODEL: RPD–P10–MW–LS–ML–AS

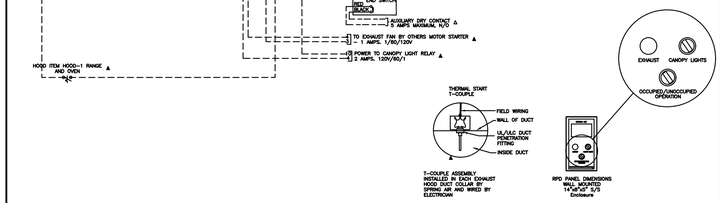
DUCT TYPE: REMOTE EXHAUST MOTOR STARTER(S)			
INTERLOCKING: MANUAL		MOUNTING: WALL	
SUPPLY: HOOD		EXHAUST: BY OTHERS	HOOD(S): BY SPRING AIR
SUPPLY MOTOR STARTER: N/A			NO. OF EXHAUST FANS: 1
OPTIONS: ● THERMAL START	○ SOUNDER/WATER SWITCH SISK COOLING		
● HOOD LIGHTS	○ DOUBLE INTERLOCK		
○ EXHAUST CURRENT MONITORING RELAY			

△ POWER WIRING BY ELECTRICAL CONTRACTOR
▲ CONTROL WIRING BY CONTROL CONTRACTOR
● FACTORY WIRING BY SPRING AIR SYSTEMS

NOTE 1: CALL SPRING AIR SERVICE AT 1–866–874–4505 IF YOU HAVE ELECTRICAL WIRING QUESTIONS

NOTE 2: ALL REMOTE ELECTRICAL WIRING SHALL CONFORM TO ALL LOCAL AND NATIONAL CODE REQUIREMENTS

NOTE 3: MOTOR SIZE, VOLTAGE/PHASE AND RECOMMENDED BY ELECTRICAL DIVISION



SEQUENCE OF OPERATION

AT THE START OF THE COOKING DAY:
Switch the on/off toggle to the Occupied position. The SAA inlet motorized damper opens and then the SAA supply fan starts. Shortly after, the exhaust fan(s) will start as well.
EXHAUST FAN OPERATION:
The exhaust fan(s) starts immediately.
CANOPY LIGHTS:
When the canopy lights switch is rotated to the on position, a canopy light relay closes and turns on all canopy lights. (Canopy light relay supplied by others)
THERMAL START:
When any T–couple closes because of rise in temperature in ductwork, all the exhaust fans will start together. The factory temperature is set at 100°C.
IN THE EVENT OF A GUNFIRE FIRE:
The wet chemical fire suppression will activate. The dry contact on terminals 8+9 will open and the supply fan will shut off. The exhaust fan will operate at high volume.
AT THE END OF THE COOKING DAY:
Switch the on/off toggle to the Unoccupied position. The exhaust and supply fan will stop operation.
Inspect the hood baffle filters or inserts daily. Clean as necessary.
Wipe down the interior surface of the hood each day. Refer to the maintenance manuals for additional information.

REVISION	DATE	BY

SPRING AIR SYSTEMS INC.
OAKVILLE, CANADA
(905) 338–2999

CUSTOMER O'DELL HVAC GROUP (ONW)
PROJECT WATERLOO OXFORD DISTRICT SECONDARY 2026

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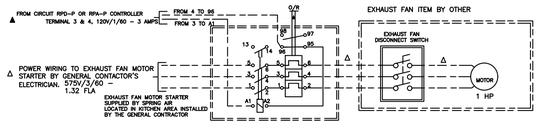
CTRL: 2
SHEET: 3–B
REV: 0

CONTROL WIRING SCHEMATIC FOR EXHAUST FAN MOTOR STARTER CONNECTED TO CSA CERTIFIED RPD–P REMOTE CONTROL UNIT

△ POWER WIRING BY ELECTRICAL CONTRACTOR
▲ CONTROL WIRING BY CONTROL CONTRACTOR
● FACTORY WIRING BY SPRING AIR SYSTEMS

NOTE 1: ALL REMOTE ELECTRAL WIRING SHALL CONFORM TO ALL LOCAL AND NATIONAL CODE REQUIREMENTS

CALL SPRING AIR SERVICE AT 1–866–874–4505 IF YOU HAVE ELECTRICAL WIRING QUESTIONS



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SPRING AIR SYSTEMS INC.
OAKVILLE, CANADA
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SHEET: 4–B
REV: 0

LICENSED PROFESSIONAL ENGINEER
03.25.26
K.M.KUDOBA
100126496
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MNE Engineering Inc.
25 Bond Street, Unit 4
Kitchener, Ontario N2G 2G5
(519) 894–9408
www.mneengineering.ca

MNE ENGINEERING

02.13.26	ISSUED FOR COORDINATION	K.K.
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WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

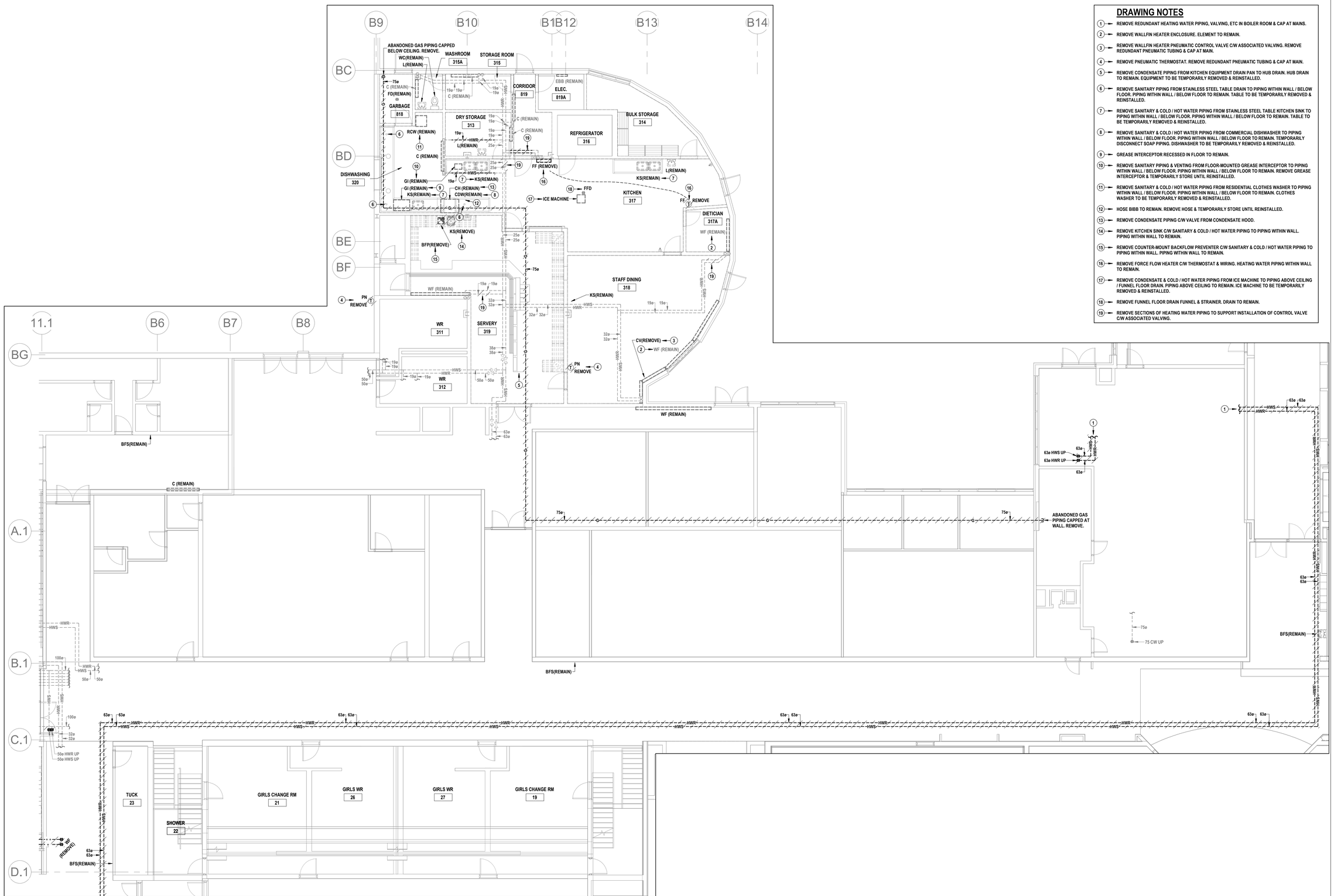
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1266 Snyder's Rd W, Baden, ON N3A 1A4

DETAILS (CONTINUED)

Project No.:	Drawn By:	Checked By:
26012	J.S.S.	K.K.

M1.4



1 M2.1 **GROUND FLOOR EAST PIPING DEMOLITION PLAN**
SCALE: 1 : 100

DRAWING NOTES

1. REMOVE REDUNDANT HEATING WATER PIPING, VALVING, ETC IN BOILER ROOM & CAP AT MAINS.
2. REMOVE WALLFIN HEATER ENCLOSURE. ELEMENT TO REMAIN.
3. REMOVE WALLFIN HEATER PNEUMATIC CONTROL VALVE C/W ASSOCIATED VALVING. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
4. REMOVE PNEUMATIC THERMOSTAT. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
5. REMOVE CONDENSATE PIPING FROM KITCHEN EQUIPMENT DRAIN PAN TO HUB DRAIN. HUB DRAIN TO REMAIN. EQUIPMENT TO BE TEMPORARILY REMOVED & REINSTALLED.
6. REMOVE SANITARY PIPING FROM STAINLESS STEEL TABLE DRAIN TO PIPING WITHIN WALL / BELOW FLOOR, PIPING WITHIN WALL / BELOW FLOOR TO REMAIN. TABLE TO BE TEMPORARILY REMOVED & REINSTALLED.
7. REMOVE SANITARY & COLD / HOT WATER PIPING FROM STAINLESS STEEL TABLE KITCHEN SINK TO PIPING WITHIN WALL / BELOW FLOOR. PIPING WITHIN WALL / BELOW FLOOR TO REMAIN. TABLE TO BE TEMPORARILY REMOVED & REINSTALLED.
8. REMOVE SANITARY & COLD / HOT WATER PIPING FROM COMMERCIAL DISHWASHER TO PIPING WITHIN WALL / BELOW FLOOR. PIPING WITHIN WALL / BELOW FLOOR TO REMAIN. TEMPORARILY DISCONNECT SOAP PIPING. DISHWASHER TO BE TEMPORARILY REMOVED & REINSTALLED.
9. GREASE INTERCEPTOR RECESSED IN FLOOR TO REMAIN.
10. REMOVE SANITARY PIPING & VENTING FROM FLOOR-MOUNTED GREASE INTERCEPTOR TO PIPING WITHIN WALL / BELOW FLOOR. PIPING WITHIN WALL / BELOW FLOOR TO REMAIN. REMOVE GREASE INTERCEPTOR & TEMPORARILY STORE UNTIL REINSTALLED.
11. REMOVE SANITARY & COLD / HOT WATER PIPING FROM RESIDENTIAL CLOTHES WASHER TO PIPING WITHIN WALL / BELOW FLOOR. PIPING WITHIN WALL / BELOW FLOOR TO REMAIN. CLOTHES WASHER TO BE TEMPORARILY REMOVED & REINSTALLED.
12. HOSE BIBB TO REMAIN. REMOVE HOSE & TEMPORARILY STORE UNTIL REINSTALLED.
13. REMOVE CONDENSATE PIPING C/W VALVE FROM CONDENSATE HOOD.
14. REMOVE KITCHEN SINK C/W SANITARY & COLD / HOT WATER PIPING TO PIPING WITHIN WALL. PIPING WITHIN WALL TO REMAIN.
15. REMOVE COUNTER-MOUNT BACKFLOW PREVENTER C/W SANITARY & COLD / HOT WATER PIPING TO PIPING WITHIN WALL. PIPING WITHIN WALL TO REMAIN.
16. REMOVE FORCE FLOW HEATER C/W THERMOSTAT & WIRING. HEATING WATER PIPING WITHIN WALL TO REMAIN.
17. REMOVE CONDENSATE & COLD / HOT WATER PIPING FROM ICE MACHINE TO PIPING ABOVE CEILING / FUNNEL FLOOR DRAIN. PIPING ABOVE CEILING TO REMAIN. ICE MACHINE TO BE TEMPORARILY REMOVED & REINSTALLED.
18. REMOVE FUNNEL FLOOR DRAIN FUNNEL & STRAINER. DRAIN TO REMAIN.
19. REMOVE SECTIONS OF HEATING WATER PIPING TO SUPPORT INSTALLATION OF CONTROL VALVE C/W ASSOCIATED VALVING.

PROJECT NORTH

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Project No.: 26012
Drawn By: J.S.S.
Checked By: K.K.

GROUND FLOOR EAST PIPING DEMOLITION PLAN

M2.1

DRAWING NOTES

1. REMOVE EXHAUST DUCTWORK TO PERMIT CAPPING & SEALING WITHIN WALL ASSEMBLY. WALL ASSEMBLY TO BE PATCHED BY GENERAL TRADES TO INTRODUCE FIRE RATING. PRIOR TO COMMENCING WITH WORK, CONFIRM STRATEGY WITH CONSULTANTS.
2. REMOVE SUPPLY DUCTWORK TO END OF THIS CORRIDOR C/W TWO DIFFUSERS (NOT SHOWN).
3. REMOVE EXHAUST DUCTWORK FROM RESIDENTIAL CLOTHES DRYER TO BUCKET LOCATED ON TOP OF CLOTHES DRYER. CLOTHES DRYER TO BE TEMPORARILY REMOVED & REINSTALLED.
4. REMOVE KITCHEN HOOD CONTROLLER.
5. REMOVE KITCHEN HOOD FIRE SUPPRESSION SYSTEM C/W TANK, PIPING AND NOZZLES.
6. REMOVE KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION PULL STATION.

1 / M2.2 **GROUND FLOOR EAST DUCTWORK DEMOLITION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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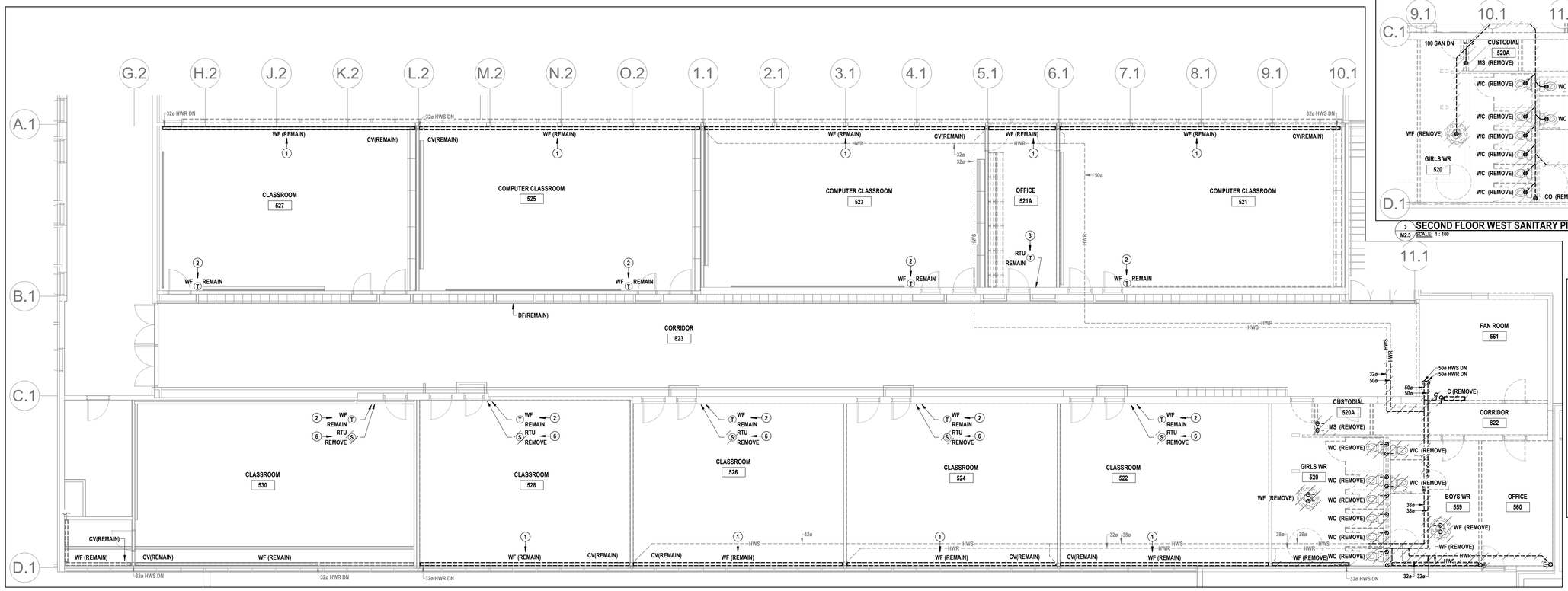
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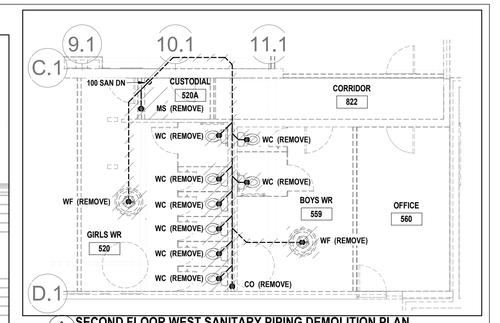
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Checked By:	K.K.

GROUND FLOOR EAST DUCTWORK DEMOLITION PLAN

M2.2



2 M2.3 **SECOND FLOOR WEST DOMESTIC & HEATING WATER PIPING DEMOLITION PLAN**
SCALE: 1 : 100



3 M2.3 **SECOND FLOOR WEST SANITARY PIPING DEMOLITION PLAN**
SCALE: 1 : 100

DRAWING NOTES

1. REMOVE WALLFIN HEATER ENCLOSURE. ELEMENT TO REMAIN.
2. REMOVE TEMPERATURE SENSOR & TEMPORARILY STORE UNTIL REINSTALLED WITHIN CONSOLE BESIDE CLOSET DOOR (OPPOSITE SIDE FROM MAIN DOOR). REMOVE WIRING AS REQUIRED.
3. TEMPERATURE SENSOR TO BE REPURPOSED FOR VVT ZONE CONTROL.
4. REMOVE WALLFIN HEATER PNEUMATIC CONTROL VALVE C/W ASSOCIATED VALVING. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
5. REMOVE PNEUMATIC THERMOSTAT. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
6. REMOVE TEMPERATURE SENSOR C/W REDUNDANT WIRING.
7. REMOVE REDUNDANT IN-FLOOR HEATING PNEUMATIC CONTROL VALVE C/W ASSOCIATED VAVLVING & PIPING WITHIN CLOSET. CAP PIPING FLUSH WITH FLOOR. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.



2 M2.3 **GROUND FLOOR WEST PIPING DEMOLITION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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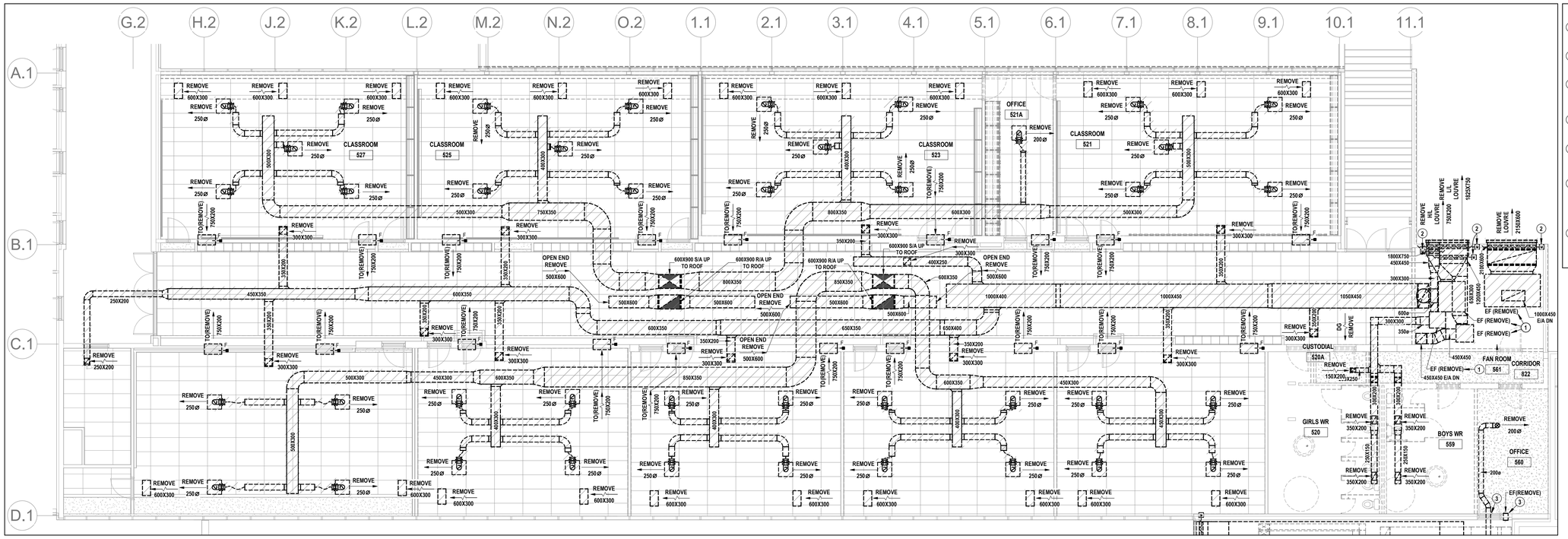
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

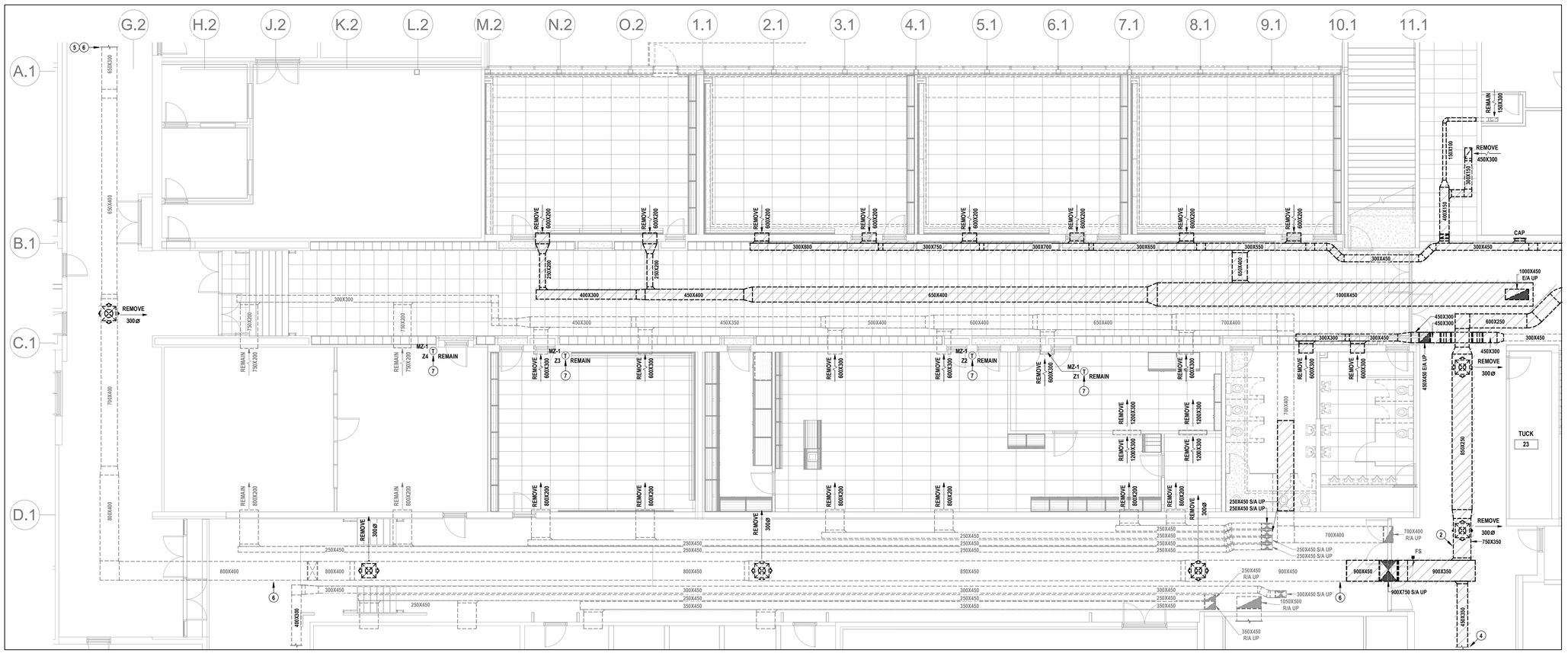
Drawn By:	J.S.S.
Checked By:	K.K.
Project No.:	26012

GROUND & SECOND FLOOR WEST PIPING DEMOLITION PLANS

M2.3



2 M2.4 **SECOND FLOOR WEST DUCTWORK DEMOLITION PLAN**
SCALE: 1 : 100



1 M2.4 **GROUND FLOOR WEST DUCTWORK DEMOLITION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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DRAWING NOTES

1. REMOVE EXHAUST FAN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
2. REMOVE PNEUMATIC MOTORIZED DAMPER. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
3. REMOVE SUPPLY DUCTWORK FROM ADJACENT DUCT SPACE TO DIFFUSER. REMOVE WALL-MOUNTED EXHAUST FAN. CAP SUPPLY DUCTWORK AT MAIN.
4. REMOVE SUPPLY DUCTWORK TO END OF THIS CORRIDOR C/W TWO DIFFUSERS (NOT SHOWN).
5. REMOVE TWO DIFFUSERS (NOT SHOWN) FROM SUPPLY DUCTWORK IN THIS CORRIDOR (TECH WING). CAP LOCATIONS WHERE DIFFUSERS WERE REMOVED.
6. SUPPLY DUCTWORK TO END OF THIS CORRIDOR (TECH WING) TO BE ABANDONED. PROVIDE LABELLING EVERY 3 METRES FOR ENTIRE LENGTH OF DUCTWORK INDICATING 'ABANDONED DUCTWORK'.
7. REMOVE TEMPERATURE SENSOR & TEMPORARILY STORE UNTIL REINSTALLED WITHIN CONSOLE BESIDE CLOSET DOOR (OPPOSITE SIDE FROM MAIN DOOR). REMOVE WIRING AS REQUIRED.

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

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Drawn By:	J.S.S.
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GROUND & SECOND FLOOR WEST DUCTWORK DEMOLITION PLANS

M2.4

DRAWING NOTES

1. REMOVE NFPA 96 KITCHEN HOOD EXHAUST FAN C/W DUCTWORK, CURB CONTROLS, WIRING, ETC.
2. ELEC TRADE TO RELOCATE ELEC CABLES TO SUIT INSTALLATION OF ROOFTOP UNIT.



1 M2.5 **ROOF EAST MECHANICAL DEMOLITION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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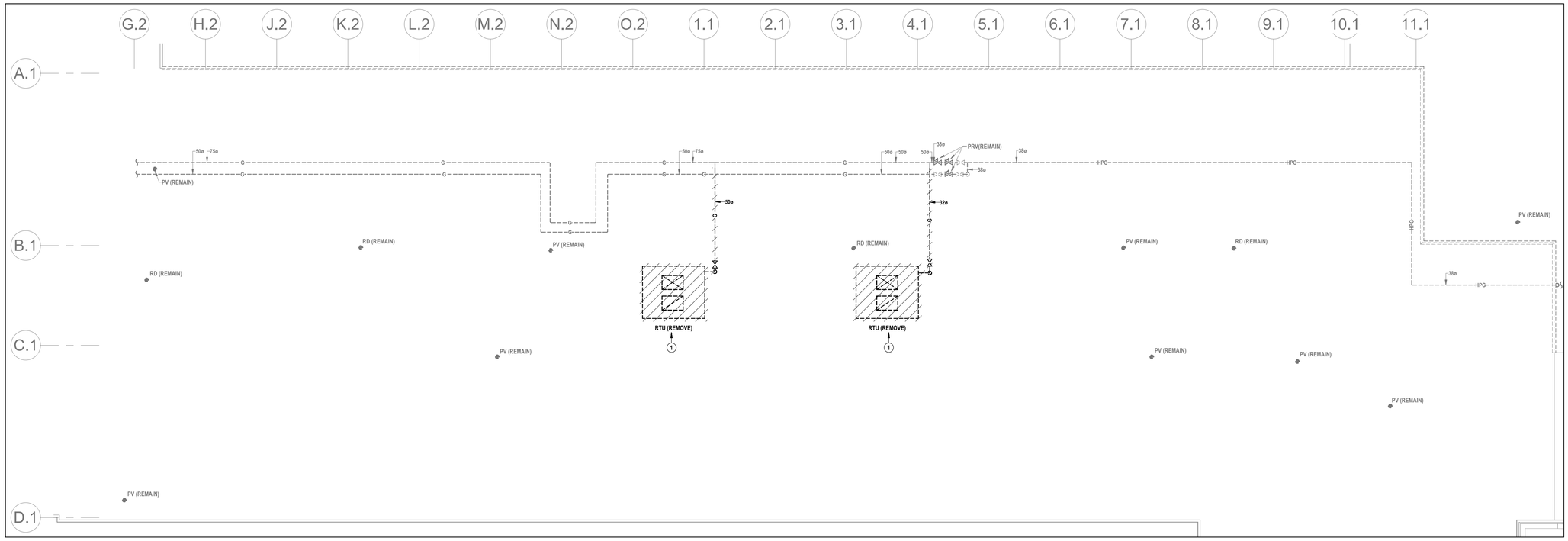
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

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ROOF EAST MECHANICAL DEMOLITION PLAN

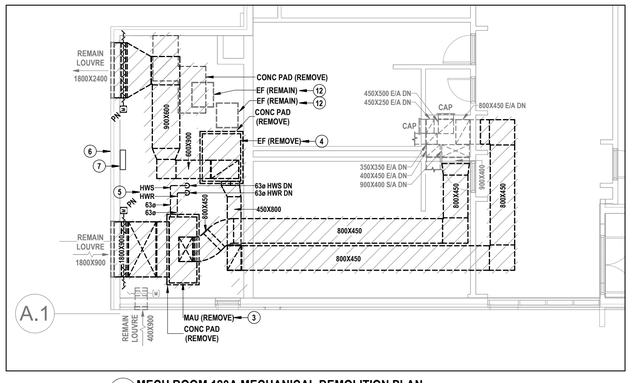
M2.5



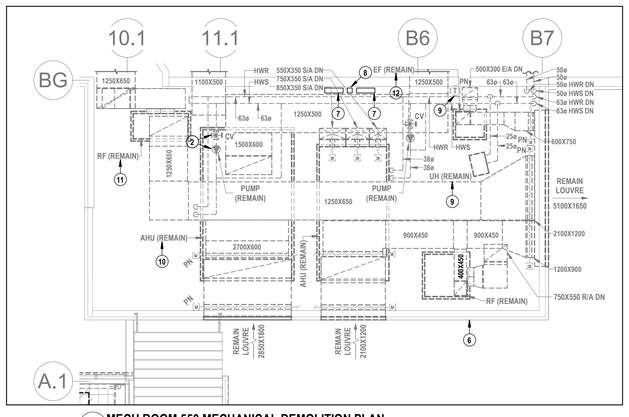
DRAWING NOTES

1. REMOVE ROOFTOP UNIT C/W DUCTWORK, CURB, CONTROLS, WIRING, GAS PIPING, ETC.
2. REMOVE HEATING WATER PNEUMATIC CONTROLS (INCLUDING FOR PUMP) C/W CONTROL VALVE, SENSORS, WIRING, ETC. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
3. REMOVE MAKE-UP AIR UNIT C/W DUCTWORK, PNEUMATIC MOTORIZED DAMPER, CONTROLS, SENSORS, WIRING, ETC. LOUVRE TO REMAIN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
4. REMOVE EXHAUST FAN C/W DUCTWORK, PNEUMATIC MOTORIZED DAMPER, CONTROLS, SENSORS, WIRING, ETC. LOUVRE TO REMAIN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
5. REMOVE HEATING WATER PIPING C/W PUMP, PNEUMATIC CONTROL VALVE, CONTROLS, SENSORS, WIRING, ETC. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
6. REMOVE ALL PNEUMATIC CONTROLS IN THIS SPACE. REMOVE ALL REDUNDANT TUBING & CAP AT MAIN.
7. REMOVE PNEUMATIC CONTROL ENCLOSURE. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
8. REMOVE TIME CLOCK C/W WIRING, ETC.
9. REMOVE UNIT HEATER PNEUMATIC CONTROLS C/W SENSORS, ETC. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
10. REMOVE AIR HANDLING UNIT PNEUMATIC CONTROLS C/W ACUTATORS, SENSORS, WIRING, ETC. AIR HANDLING UNIT TO REMAIN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
11. REMOVE RETURN FAN PNEUMATIC CONTROLS C/W ACUTATORS, SENSORS, WIRING, ETC. FAN TO REMAIN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.
12. REMOVE EXHAUST FAN PNEUMATIC CONTROLS C/W ACUTATORS, SENSORS, WIRING, ETC. FAN TO REMAIN. REMOVE REDUNDANT PNEUMATIC TUBING & CAP AT MAIN.

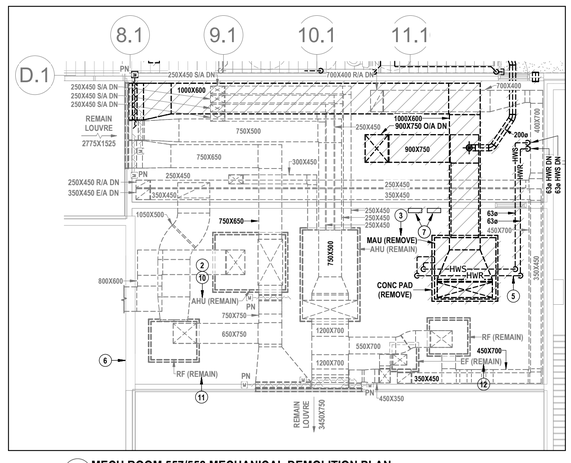
1 M2.6 **ROOF WEST MECHANICAL DEMOLITION PLAN**
SCALE: 1 : 100



2 M2.6 **MECH ROOM 120A MECHANICAL DEMOLITION PLAN**
SCALE: 1 : 100



3 M2.6 **MECH ROOM 550 MECHANICAL DEMOLITION PLAN**
SCALE: 1 : 100



4 M2.6 **MECH ROOM 557/558 MECHANICAL DEMOLITION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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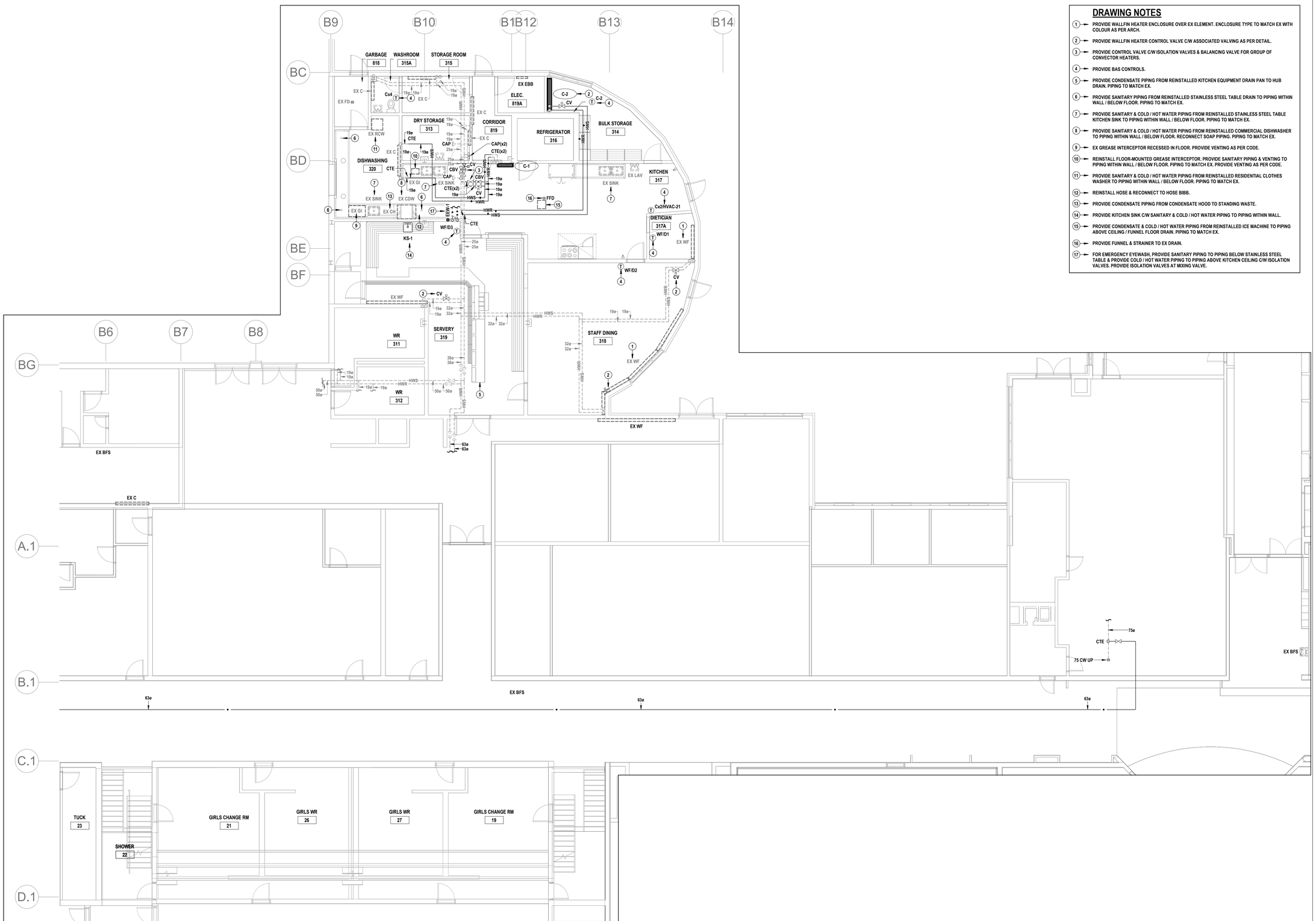
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Project No.: 26012
Drawn By: J.S.S.
Checked By: K.K.

ROOF WEST & MECH ROOMS MECHANICAL DEMOLITION PLANS

M2.6



1 M3.1 **GROUND FLOOR EAST PIPING RENOVATION PLAN**
SCALE: 1 : 100

DRAWING NOTES

1. PROVIDE WALLFIN HEATER ENCLOSURE OVER EX ELEMENT. ENCLOSURE TYPE TO MATCH EX WITH COLOUR AS PER ARCH.
2. PROVIDE WALLFIN HEATER CONTROL VALVE C/W ASSOCIATED VALVING AS PER DETAIL.
3. PROVIDE CONTROL VALVE C/W ISOLATION VALVES & BALANCING VALVE FOR GROUP OF CONVECTOR HEATERS.
4. PROVIDE BAS CONTROLS.
5. PROVIDE CONDENSATE PIPING FROM REINSTALLED KITCHEN EQUIPMENT DRAIN PAN TO HUB DRAIN. PIPING TO MATCH EX.
6. PROVIDE SANITARY PIPING FROM REINSTALLED STAINLESS STEEL TABLE DRAIN TO PIPING WITHIN WALL / BELOW FLOOR. PIPING TO MATCH EX.
7. PROVIDE SANITARY & COLD / HOT WATER PIPING FROM REINSTALLED STAINLESS STEEL TABLE KITCHEN SINK TO PIPING WITHIN WALL / BELOW FLOOR. PIPING TO MATCH EX.
8. PROVIDE SANITARY & COLD / HOT WATER PIPING FROM REINSTALLED COMMERCIAL DISHWASHER TO PIPING WITHIN WALL / BELOW FLOOR. RECONNECT SOAP PIPING. PIPING TO MATCH EX.
9. EX GREASE INTERCEPTOR RECESSED IN FLOOR. PROVIDE VENTING AS PER CODE.
10. REINSTALL FLOOR-MOUNTED GREASE INTERCEPTOR. PROVIDE SANITARY PIPING & VENTING TO PIPING WITHIN WALL / BELOW FLOOR. PIPING TO MATCH EX. PROVIDE VENTING AS PER CODE.
11. PROVIDE SANITARY & COLD / HOT WATER PIPING FROM REINSTALLED RESIDENTIAL CLOTHES WASHER TO PIPING WITHIN WALL / BELOW FLOOR. PIPING TO MATCH EX.
12. REINSTALL HOSE & RECONNECT TO HOSE BIBB.
13. PROVIDE CONDENSATE PIPING FROM CONDENSATE HOOD TO STANDING WASTE.
14. PROVIDE KITCHEN SINK C/W SANITARY & COLD / HOT WATER PIPING TO PIPING WITHIN WALL.
15. PROVIDE CONDENSATE & COLD / HOT WATER PIPING FROM REINSTALLED ICE MACHINE TO PIPING ABOVE CEILING / FUNNEL FLOOR DRAIN. PIPING TO MATCH EX.
16. PROVIDE FUNNEL & STRAINER TO EX DRAIN.
17. FOR EMERGENCY EYEWASH, PROVIDE SANITARY PIPING TO PIPING BELOW STAINLESS STEEL TABLE & PROVIDE COLD / HOT WATER PIPING TO PIPING ABOVE KITCHEN CEILING C/W ISOLATION VALVES. PROVIDE ISOLATION VALVES AT MIXING VALVE.

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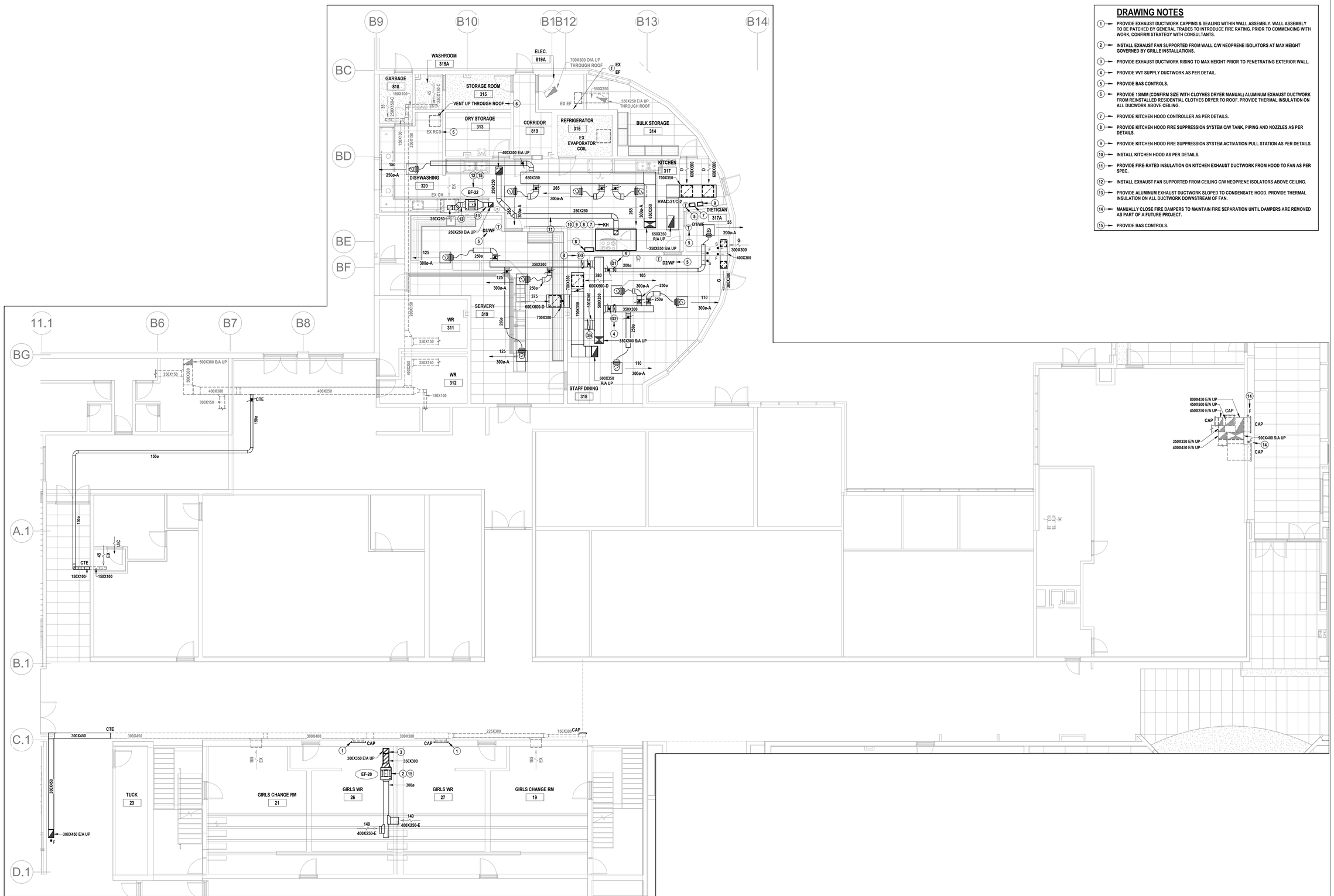
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GROUND FLOOR EAST PIPING RENOVATION PLAN

M3.1



1 M3.2 **GROUND FLOOR EAST DUCTWORK RENOVATION PLAN**
SCALE: 1 : 100

DRAWING NOTES

1. PROVIDE EXHAUST DUCTWORK CAPPING & SEALING WITHIN WALL ASSEMBLY. WALL ASSEMBLY TO BE PATCHED BY GENERAL TRADES TO INTRODUCE FIRE RATING. PRIOR TO COMMENCING WITH WORK, CONFIRM STRATEGY WITH CONSULTANTS.
2. INSTALL EXHAUST FAN SUPPORTED FROM WALL C/W NEOPRENE ISOLATORS AT MAX HEIGHT GOVERNED BY GRILLE INSTALLATIONS.
3. PROVIDE EXHAUST DUCTWORK RISING TO MAX HEIGHT PRIOR TO PENETRATING EXTERIOR WALL.
4. PROVIDE VVT SUPPLY DUCTWORK AS PER DETAIL.
5. PROVIDE BAS CONTROLS.
6. PROVIDE 150MM (CONFIRM SIZE WITH CLOYHES DRYER MANUAL) ALUMINUM EXHAUST DUCTWORK FROM REINSTALLED RESIDENTIAL CLOTHES DRYER TO ROOF. PROVIDE THERMAL INSULATION ON ALL DUCWORK ABOVE CEILING.
7. PROVIDE KITCHEN HOOD CONTROLLER AS PER DETAILS.
8. PROVIDE KITCHEN HOOD FIRE SUPPRESSION SYSTEM C/W TANK, PIPING AND NOZZLES AS PER DETAILS.
9. PROVIDE KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION PULL STATION AS PER DETAILS.
10. INSTALL KITCHEN HOOD AS PER DETAILS.
11. PROVIDE FIRE-RATED INSULATION ON KITCHEN EXHAUST DUCTWORK FROM HOOD TO FAN AS PER SPEC.
12. INSTALL EXHAUST FAN SUPPORTED FROM CEILING C/W NEOPRENE ISOLATORS ABOVE CEILING.
13. PROVIDE ALUMINUM EXHAUST DUCTWORK SLOPED TO CONDENSATE HOOD. PROVIDE THERMAL INSULATION ON ALL DUCTWORK DOWNSTREAM OF FAN.
14. MANUALLY CLOSE FIRE DAMPERS TO MAINTAIN FIRE SEPARATION UNTIL DAMPERS ARE REMOVED AS PART OF A FUTURE PROJECT.
15. PROVIDE BAS CONTROLS.

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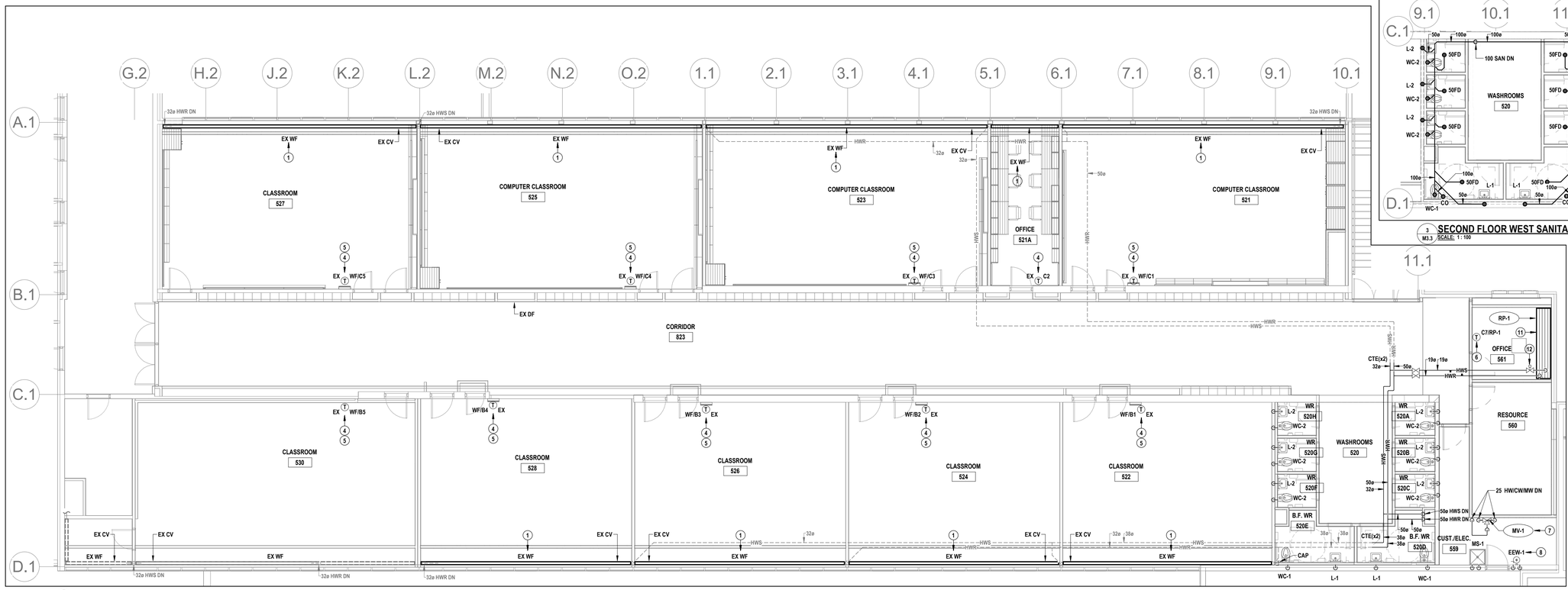
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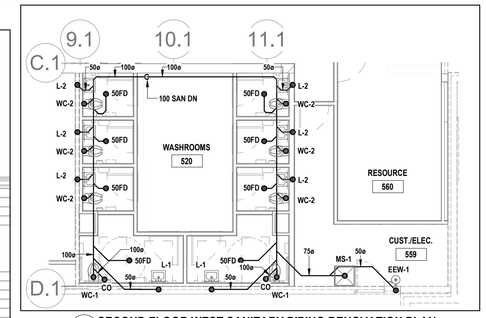
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GROUND FLOOR EAST DUCTWORK RENOVATION PLAN

M3.2



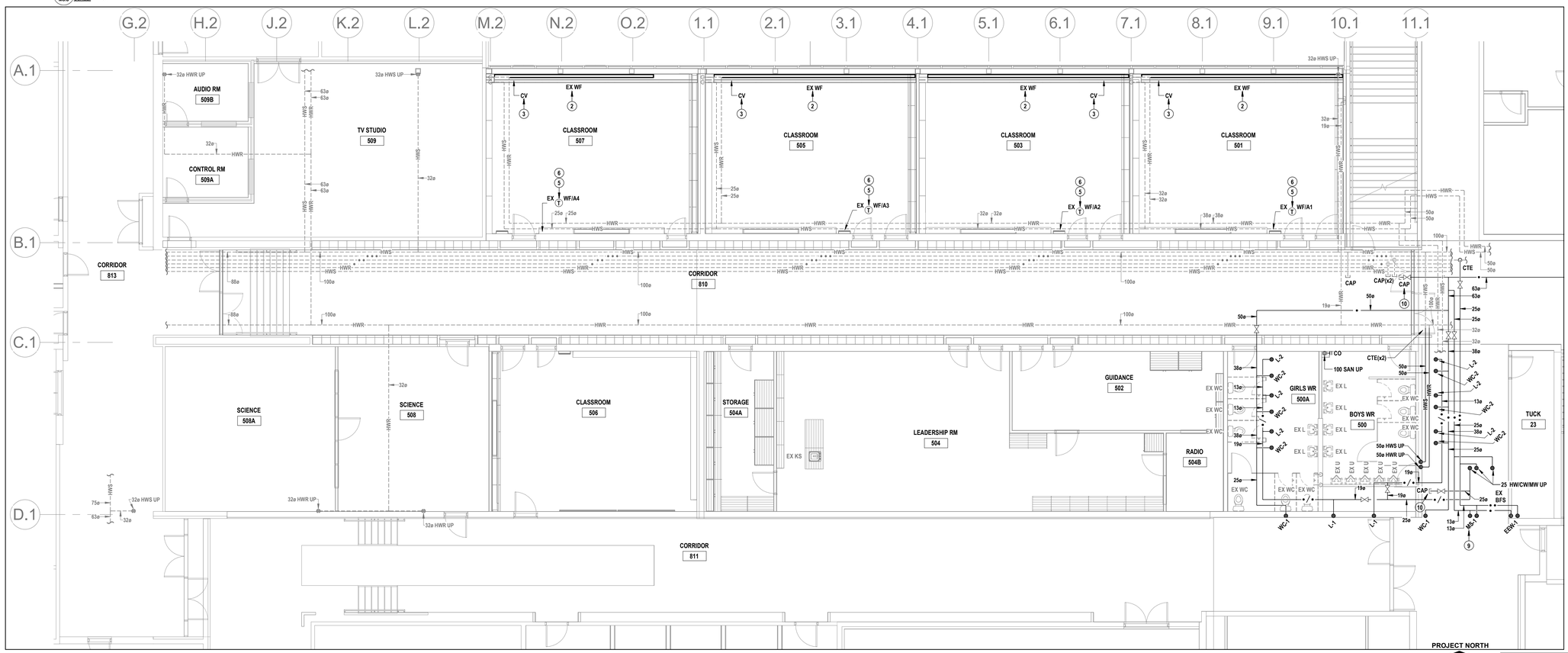
2 M3.3 **SECOND FLOOR WEST DOMESTIC & HEATING WATER PIPING RENOVATION PLAN**
SCALE: 1 : 100



3 M3.3 **SECOND FLOOR WEST SANITARY PIPING RENOVATION PLAN**
SCALE: 1 : 100

DRAWING NOTES

1. PROVIDE WALLFIN HEATER ENCLOSURE OVER EX ELEMENT. ENCLOSURE TYPE TO MATCH EX WITH COLOUR AS PER ARCH.
2. PROVIDE WALLFIN HEATER ENCLOSURE OVER EX ELEMENT. ENCLOSURE TYPE TO MATCH EX SECOND FLOOR WITH COLOUR AS PER ARCH.
3. PROVIDE WALLFIN HEATER CONTROL VALVE C/W ASSOCIATED VALVING AS PER DETAIL.
4. REVISE BAS CONTROLS TO INCLUDE VVT ZONE CONTROL.
5. REINSTALL TEMPORARILY STORED TEMPERATURE SENSOR WITHIN CONSOLE BESIDE CLOSET DOOR (OPPOSITE SIDE FROM MAIN DOOR). PROVIDE WIRING AS REQUIRED. COORDINATE WITH ARCH PRIOR TO COMMENCING WORK.
6. PROVIDE BAS CONTROLS.
7. PROVIDE ISOLATION VALVES AT MIXING VALVE.
8. PROVIDE ISOLATION VALVES AT EMERGENCY EYEWASH MIXING VALVE.
9. PROVIDE ISOLATION VALVES FOR MOP SINK.
10. PROVIDE CAP FOR FUTURE CONNECTION.
11. INSTALL RADIANT CEILING PANEL HEATER AS PER DETAIL.
12. PROVIDE RADIANT PANEL HEATER CONTROL VALVE C/W ASSOCIATED VALVING AS PER DETAIL.



1 M3.3 **GROUND FLOOR WEST PIPING RENOVATION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.: 26012
Drawn By: J.S.S.
Checked By: K.K.

GROUND & SECOND FLOOR WEST PIPING RENOVATION PLANS

M3.3

DRAWING NOTES

1. PROVIDE VVT SUPPLY DUCTWORK AS PER DETAIL.
2. REINSTALL TEMPORARILY STORED TEMPERATURE SENSOR WITHIN CONSOLE BESIDE CLOSET DOOR (OPPOSITE SIDE FROM MAIN DOOR). PROVIDE WIRING AS REQUIRED. COORDINATE WITH ARCH PRIOR TO COMMENCING WORK.
3. REVISE BAS CONTROLS TO INCLUDE VVT ZONE CONTROL.
4. PROVIDE BAS CONTROLS.
5. PROVIDE TRANSFER DUCT AS PER DETAIL.
6. REROUTE RETURN DUCTWORK AS REQUIRED TO SUIT EXHAUST DUTWORK FLOOR PENETRATION.
7. SUPPLY DUCTWORK TO END OF THIS CORRIDOR (TECH WING) TO BE ABANDONED. PROVIDE LABELLING EVERY 3 METRES FOR ENTIRE LENGTH OF DUCTWORK INDICATING 'ABANDONED DUCTWORK'.

2 M3.4 **SECOND FLOOR WEST DUCTWORK RENOVATION PLAN**
SCALE: 1 : 100

1 M3.4 **GROUND FLOOR WEST DUCTWORK RENOVATION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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GROUND & SECOND FLOOR WEST DUCTWORK RENOVATION PLANS

M3.4

DRAWING NOTES

1. INSTALL ROOFTOP UNIT C/W GAS PIPING AS PER DETAILS. PROVIDE BAS CONTROLS.
2. PROVIDE WALL-MOUNTED GOOSENECK AT MAX HEIGHT C/W GALVANIZED BIRDSCREEN.
3. INSTALL ROOF-MOUNTED EXHAUST FAN AS PER DETAIL. PROVIDE BAS CONTROLS.
4. INSTALL ROOF-MOUNTED NFPA 96 KITCHEN EXHAUST FAN AS PER DETAIL. PROVIDE BAS CONTROLS.
5. PROVIDE ROOF-MOUNTED GOOSENECK TERMINATING MIN 600MM ABOVE ROOF C/W GALVANIZED BIRDSCREEN. REFER TO DETAIL.
6. PROVIDE ROOF-MOUNTED GOOSENECK (MOIST EXHAUST AIR) TERMINATING MIN 600MM ABOVE ROOF C/W ALUMINUM BIRDSCREEN. REFER TO DETAIL.
7. INSTALL NATURAL GAS PRV AS PER DETAIL. PROVIDE SUPPORTS FOR ALL ROOF-MOUNTED PIPING ON ROOF AS PER DETAIL.

B9 B10 B1B12 B13 B14 BC BD BE BF 11.1 B6 B7 B8 BG A.1 B.1 C.1 D.1

6 GOOSENECK 150Ø

700X300 E/A DN — GOOSENECK EX

550X250 E/A DN — GOOSENECK EX

EX DOGHOUSE

4 EF-21

GOOSENECK 250X250 — 6

EX CONDENSER

25ø

HVAC-21 — 1

EX ELECTRICAL CABLING

EX RD

ELECTRICAL CABLING (RELOCATED BY ELEC TRADE)

1 HVAC-22 — 25ø — 25ø — 32ø

7 PRV (280CFH / 2.2L/S)

25ø

EX PV

EX RTU

EX RD

EX GENERATOR

EX ELECTRICAL CABLING — HPG

EX PRV

HPG — 50ø — 38ø — 25ø

EX ELECTRICAL CABLING

EX PV EX RD

HPG — 38ø — 25ø

HPG — 100ø — 38ø — CTE

38ø

PRV (1100CFH / 8.65L/S) — 50ø — 38ø — 7

2 GOOSENECK 400X300

3 EF-19

3 EF-23

5 GOOSENECK 400X400

PROJECT NORTH

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1 / M3.5 **ROOF EAST MECHANICAL RENOVATION PLAN**
SCALE: 1 : 100

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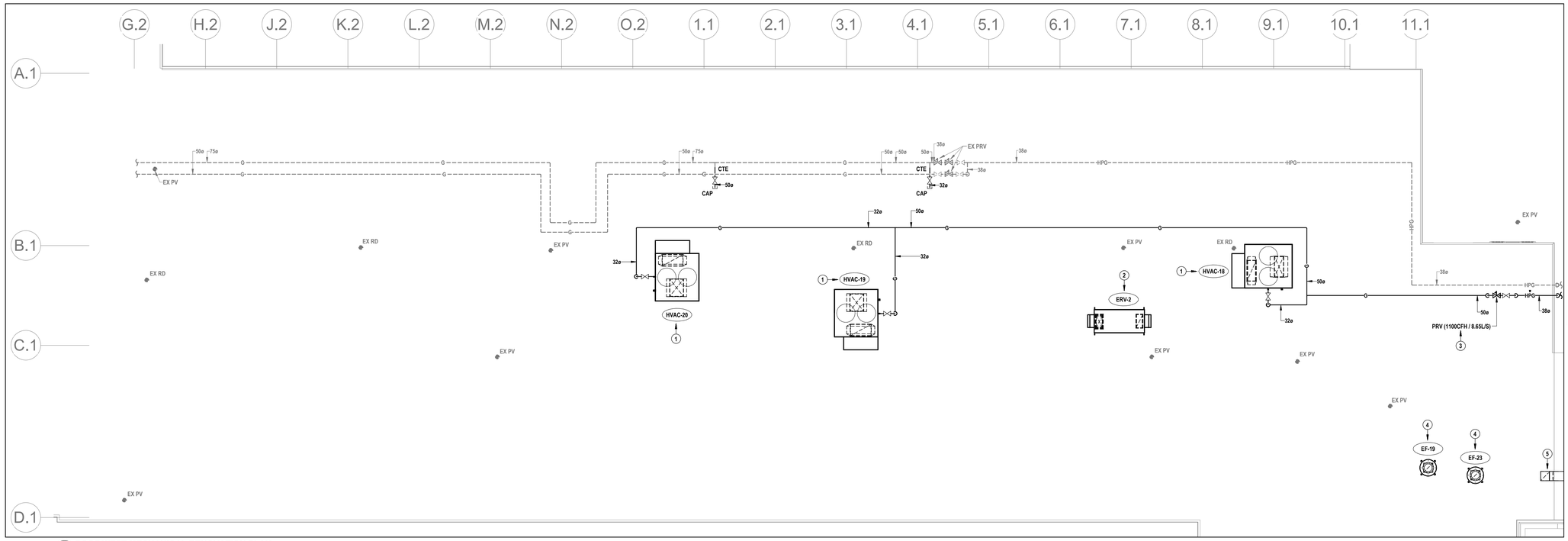
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Checked By:	K.K.
Drawn By:	J.S.S.
Project No.:	26012

ROOF EAST MECHANICAL RENOVATION PLAN

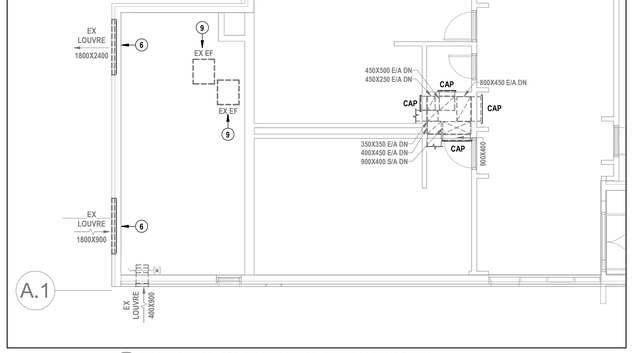
M3.5



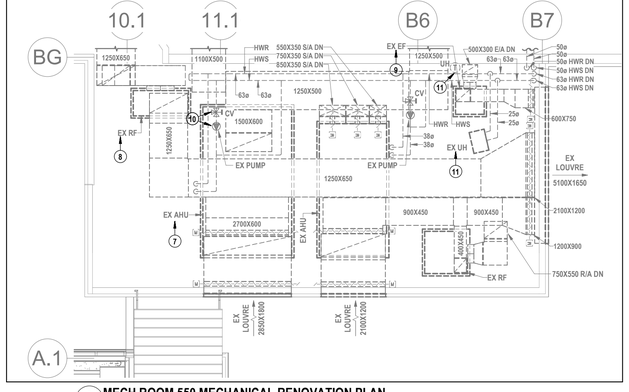
1 M3.6 **ROOF WEST MECHANICAL RENOVATION PLAN**
SCALE: 1 : 100

DRAWING NOTES

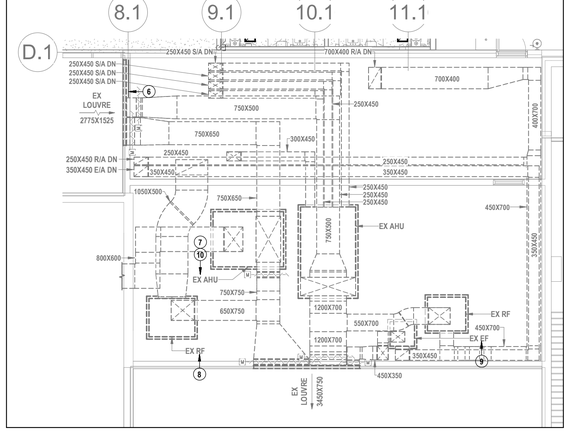
1. INSTALL ROOFTOP UNIT C/W GAS PIPING AS PER DETAILS. PROVIDE BAS CONTROLS.
2. INSTALL ROOF-MOUNTED ENERGY RECOVERY VENTIALTOR AS PER DETAIL. PROVIDE BAS CONTROLS.
3. INSTALL NATURAL GAS PRV AS PER DETAIL. PROVIDE SUPPORTS FOR ALL ROOF-MOUNTED PIPING ON ROOF AS PER DETAIL.
4. INSTALL ROOF-MOUNTED EXHAUST FAN AS PER DETAIL. PROVIDE BAS CONTROLS.
5. PROVIDE ROOF-MOUNTED GOOSENECK TERMINATING MIN 600MM ABOVE ROOF C/W GALVANIZED BIRDSCREEN. REFER TO DETAIL.
6. PROVIDE INSULATED BLANK-OFF PANEL (RIGID BOARD INSULATION & SHEETMETAL) ON INTERIOR SIDE OF UNUSED PORTION OF LOUVRE. PROVIDE WEATHERTIGHT SEAL.
7. PROVIDE AIR HANDLING UNIT BAS CONTROLS C/W DAMPER ACUTATORS, SENSORS, WIRING, ETC.
8. PROVIDE RETURN FAN BAS CONTROLS C/W DAMPER ACUTATORS, SENSORS, WIRING, ETC.
9. PROVIDE EXHAUST FAN BAS CONTROLS C/W DAMPER ACTUATORS, SENSORS, WIRING, ETC.
10. PROVIDE HEATING WATER BAS CONTROLS (INCLUDING FOR PUMP) C/W CONTROL VALVE, SENSORS, WIRING, ETC.
11. PROVIDE UNIT HEATER BAS CONTROLS C/W SENSORS, ETC.



2 M3.6 **MECH ROOM 120A MECHANICAL RENOVATION PLAN**
SCALE: 1 : 100



3 M3.6 **MECH ROOM 550 MECHANICAL RENOVATION PLAN**
SCALE: 1 : 100



4 M3.6 **MECH ROOM 557/558 MECHANICAL RENOVATION PLAN**
SCALE: 1 : 100

PROJECT NORTH

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Waterloo Oxford District Secondary School

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Project No.:	26012
Drawn By:	J.S.S.
Checked By:	K.K.

ROOF WEST & MECH ROOMS MECHANICAL RENOVATION PLANS

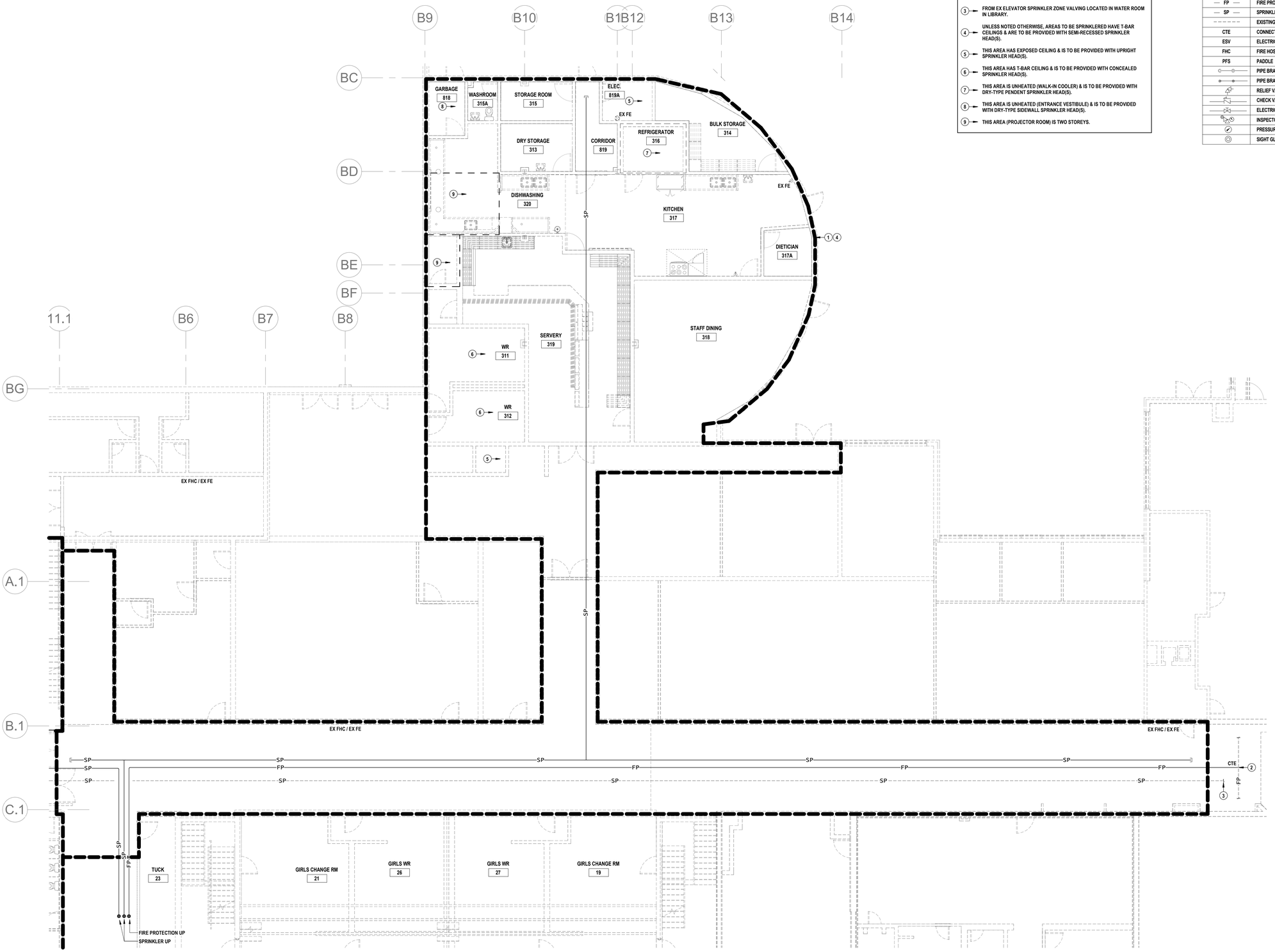
M3.6

DRAWING NOTES

1. PROVIDE WET SPRINKLER SYSTEM WITHIN DASHED OUTLINE (UNLESS NOTED OTHERWISE TO PROVIDE DRY SPRINKLER SYSTEM).
2. CONNECT TO EX FIRE PROTECTION PIPNIG IN APPROXIMATELY THIS LOCATION IN-FRONT OF LIBRARY.
3. FROM EX ELEVATOR SPRINKLER ZONE VALVING LOCATED IN WATER ROOM IN LIBRARY.
4. UNLESS NOTED OTHERWISE, AREAS TO BE SPRINKLERED HAVE T-BAR CEILINGS & ARE TO BE PROVIDED WITH SEMI-RECESSED SPRINKLER HEAD(S).
5. THIS AREA HAS EXPOSED CEILING & IS TO BE PROVIDED WITH UPRIGHT SPRINKLER HEAD(S).
6. THIS AREA HAS T-BAR CEILING & IS TO BE PROVIDED WITH CONCEALED SPRINKLER HEAD(S).
7. THIS AREA IS UNHEATED (WALK-IN COOLER) & IS TO BE PROVIDED WITH DRY-TYPE PENDENT SPRINKLER HEAD(S).
8. THIS AREA IS UNHEATED (ENTRANCE VESTIBULE) & IS TO BE PROVIDED WITH DRY-TYPE SIDEWALL SPRINKLER HEAD(S).
9. THIS AREA (PROJECTOR ROOM) IS TWO STOREYS.

LEGENDS

SYMBOL	DESCRIPTION
FP	FIRE PROTECTION PIPING
SP	SPRINKLER PIPING
	EXISTING TO REMAIN
CTE	CONNECT TO EXISTING
ESV	ELECTRICALLY SUPERVISED VALVE
FHC	FIRE HOSE CABINET
PFS	PADDLE TYPE FLOW SWITCH
	PIPE BRANCHES TURNING DN
	PIPE BRANCHES TURNING UP
	RELIEF VALVE
	CHECK VALVE
	ELECTRICALLY SUPERVISED VALVE
	INSPECTOR TEST VALVE
	PRESSURE GUAGE
	SIGHT GLASS



1 SP1.1 **GROUND FLOOR EAST SPRINKLER PLAN**
SCALE: 1 : 100

PROJECT NORTH

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

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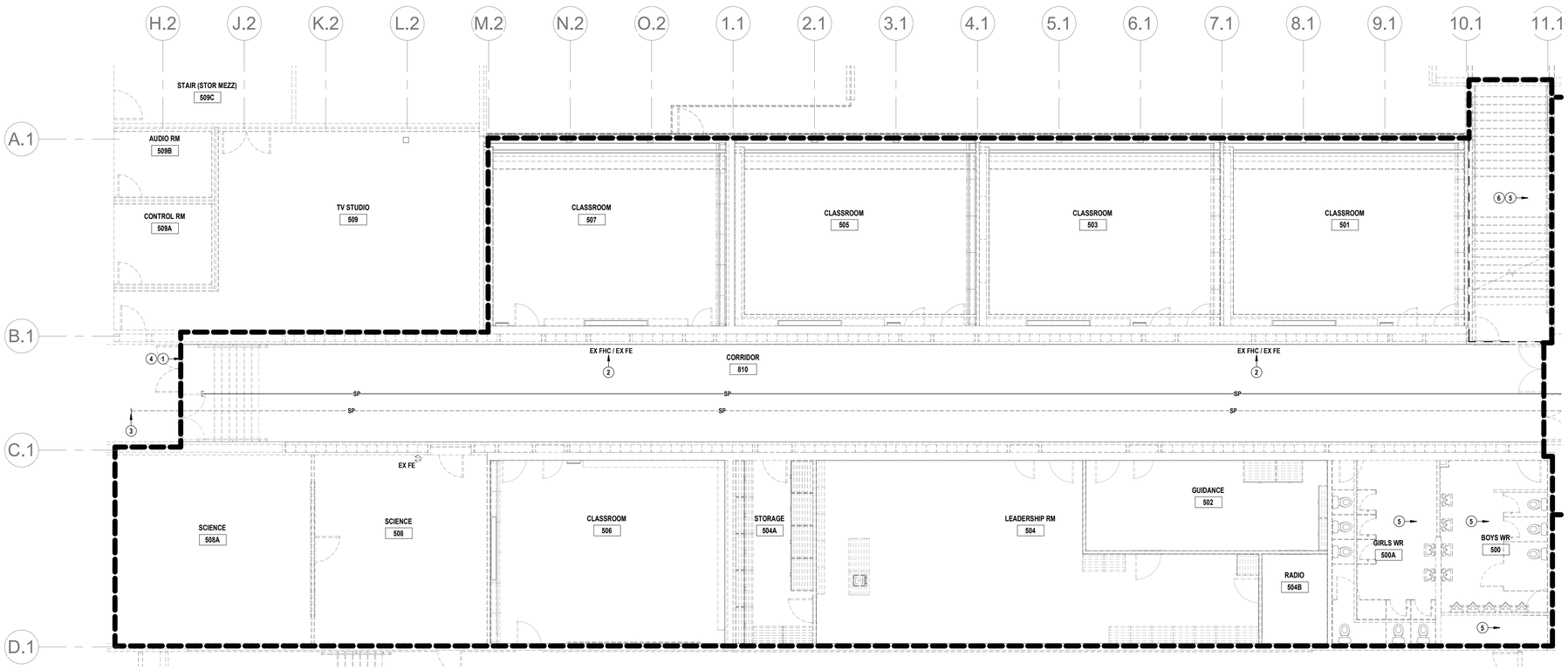
Project No.: 26012
Drawn By: J.Z.
Checked By: Checker

LEGEND, KEY PLAN & GROUND FLOOR EAST SPRINKLER PLAN

SP1.1

DRAWING NOTES

1. PROVIDE WET SPRINKLER SYSTEM WITHIN DASHED OUTLINE (UNLESS NOTED OTHERWISE TO PROVIDE DRY SPRINKLER SYSTEM).
2. REMOVE FIRE HOSE C/W HANGERS, VALVING, ETC & TURN OVER TO OWNER. REMOVE PIPING FROM HOSE TO MAIN. INACCESSIBLE PIPING IN WALL IS PERMITTED TO REMAIN. CAP PIPING AT MAIN. CABINET & FIRE EXTINGUISHER TO REMAIN.
3. TO EX ELEVATOR SPRINKLER ZONE LOCATED AT NORTH END OF TECH WING.
4. UNLESS NOTED OTHERWISE, AREAS TO BE SPRINKLERED HAVE T-BAR CEILINGS & ARE TO BE PROVIDED WITH SEMI-RECESSED SPRINKLER HEAD(S).
5. THIS AREA HAS EXPOSED CEILING & IS TO BE PROVIDED WITH UPRIGHT SPRINKLER HEAD(S).
6. THIS AREA (STROAGE) IS BELOW STAIRS. STAIR IS NOT TO BE SPRINKLERED AT THIS TIME.



1 SP1.2 **GROUND FLOOR WEST SPRINKLER PLAN**
SCALE: 1 : 100

PROJECT NORTH

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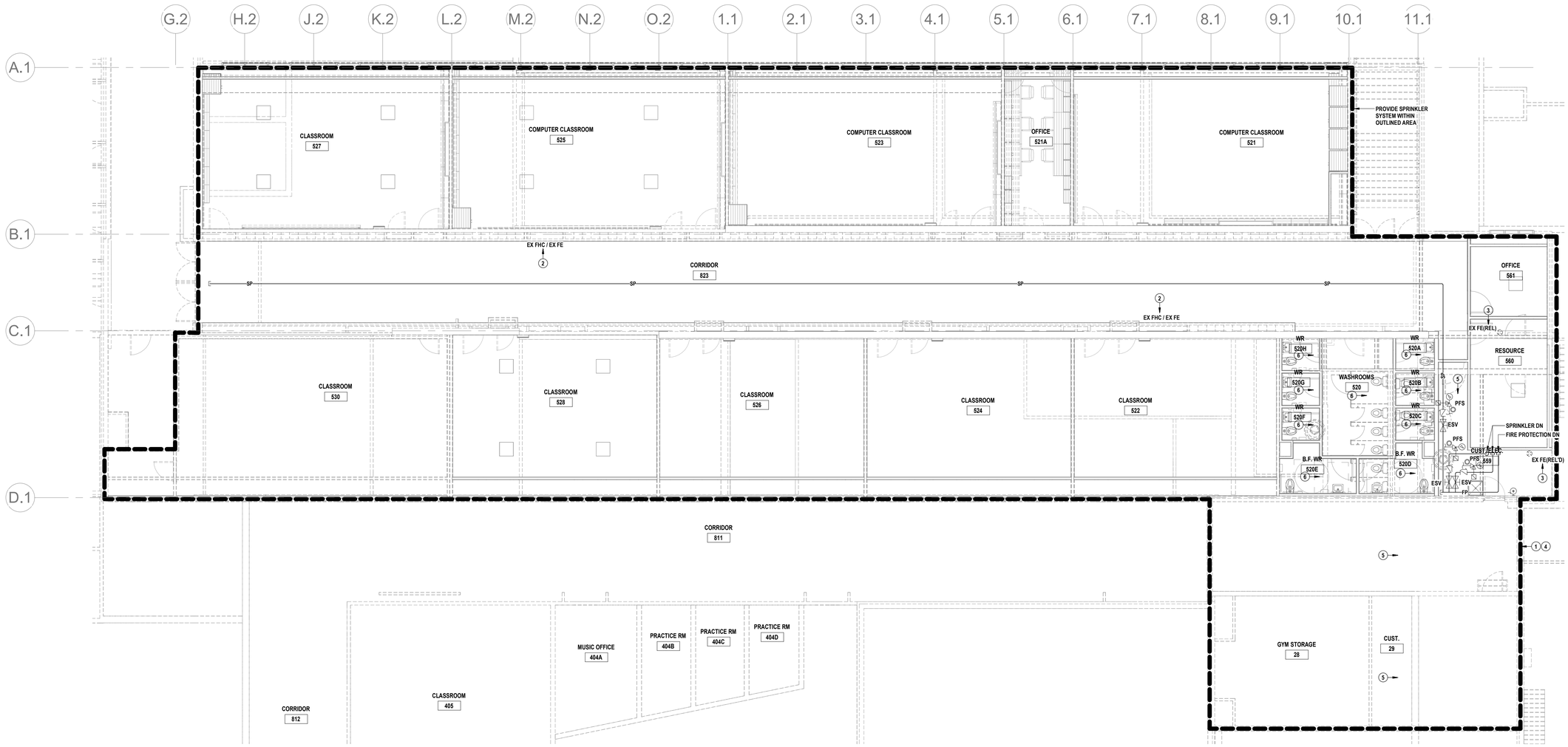
Project No.:	26012
Drawn By:	Author
Checked By:	Checker

GROUND FLOOR WEST SPRINKLER PLAN

SP1.2

DRAWING NOTES

1. PROVIDE WET SPRINKLER SYSTEM WITHIN DASHED OUTLINE (UNLESS NOTED OTHERWISE TO PROVIDE DRY SPRINKLER SYSTEM).
2. REMOVE FIRE HOSE C/W HANGERS, VALVING, ETC & TURN OVER TO OWNER. REMOVE PIPING FROM HOSE TO MAIN. INACCESSIBLE PIPING IN WALL IS PERMITTED TO REMAIN. CAP PIPING AT MAIN. CABINET & FIRE EXTINGUISHER TO REMAIN.
3. RELOCATE FIRE EXTINGUISHER TO CUSTODIAL ROOM.
4. UNLESS NOTED OTHERWISE, AREAS TO BE SPRINKLERED HAVE T-BAR CEILINGS & ARE TO BE PROVIDED WITH SEMI-RECESSED SPRINKLER HEAD(S).
5. THIS AREA HAS EXPOSED CEILING & IS TO BE PROVIDED WITH UPRIGHT SPRINKLER HEAD(S).
6. THIS AREA HAS DRYWALL CEILING & IS TO BE PROVIDED WITH CONCEALED SPRINKLER HEAD(S).



1 SP1.3 **SECOND FLOOR WEST SPRINKLER PLAN**
SCALE: 1 : 100

PROJECT NORTH

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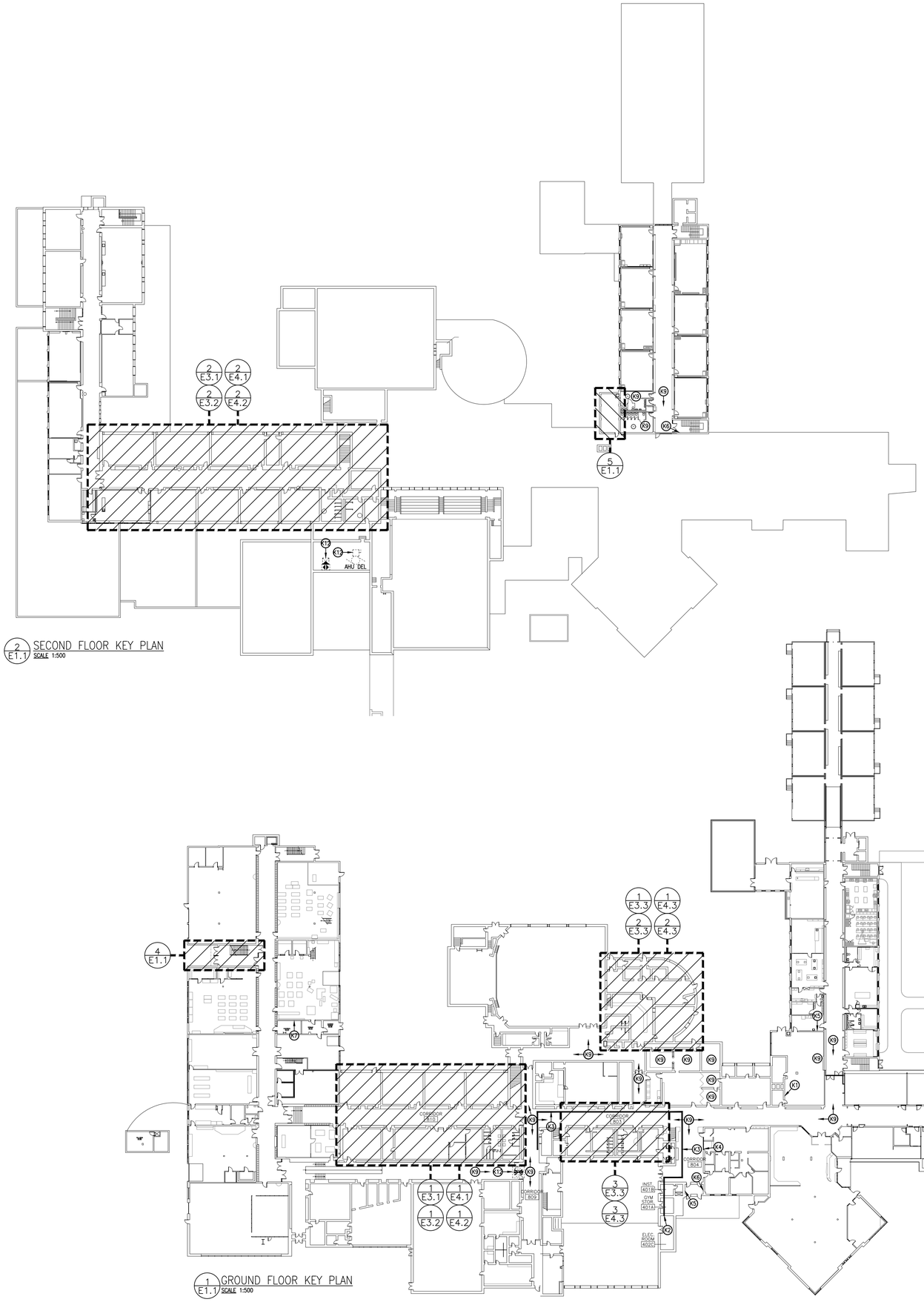
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Checked By: K.K.
Drawn By: J.Z.
Project No.: 26012

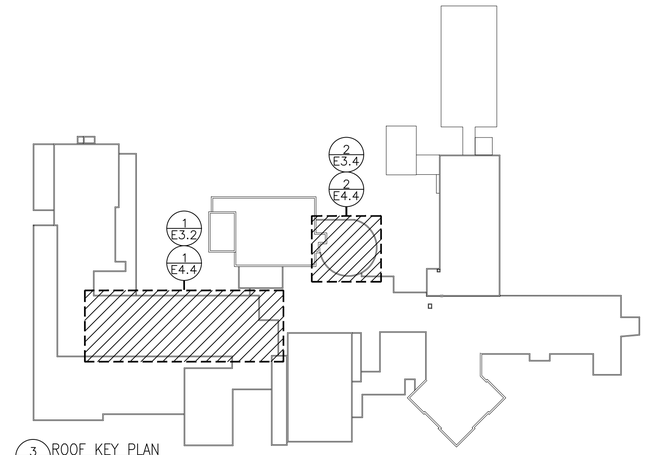
SECOND FLOOR WEST SPRINKLER PLAN

SP1.3

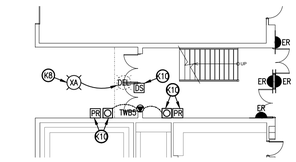


2 E1.1 SECOND FLOOR KEY PLAN
SCALE 1:500

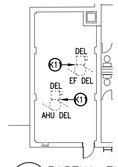
1 E1.1 GROUND FLOOR KEY PLAN
SCALE 1:500



3 E1.1 ROOF KEY PLAN
SCALE 1:1000



4 E1.1 PARTIAL ELECTRICAL PLAN
SCALE 1:200



5 E1.1 PARTIAL ELECTRICAL PLAN
SCALE 1:200

PLAN NOTES:

K1 — EXISTING BOARD 'BBR'.
- REFER TO SINGLE LINE DIAGRAM FOR MODIFICATIONS.

K2 — EXISTING SERVICE ENTRANCE BOARD 'BSE'.
- REFER TO SINGLE LINE DIAGRAM FOR MODIFICATIONS.

K3 — PROVIDE NEW FEEDER (CONDUCTORS & CONDUIT) FROM 'BSE' TO NEW PANEL 'DD'.
- REFER TO SINGLE LINE DIAGRAM.
- SUGGESTED ROUTE INDICATED. DETERMINE OPTIMAL ROUTING ON SITE.
- PROVIDE PULL BOXES AS REQUIRED.
- REMOVE AND REPLACE CEILING TILES IN CORRIDORS 803, 804, 809 TO ACCOMMODATE INSTALLATION OF NEW FEEDER.
- UTILIZE EXISTING ACCESS HATCHES IN 401A AND 401B. PROVIDE NEW AS REQUIRED.
- REWORK EXISTING CEILING-MOUNTED FIXTURES/DEVICES AND DECK MOUNTED SERVICES (NOT ALL INDICATED).
- SEAL ALL RATED PENETRATIONS.

K4 — EXISTING CHUBB-EDWARDS EST4 FIRE ALARM CONTROL PANEL (FACP) SHALL REMAIN. MODIFY AS FOLLOWS:
- DELETE EXISTING DEVICES AS INDICATED ON PLANS.
- PROVIDE NEW INITIATING ZONES FOR HVAC-22, ERV-2, AND KITCHEN HOOD SUPPRESSION.
- PROVIDE NEW SPRINKLER ZONES AS OUTLINED.
- REWORK EXISTING ADDRESSABLE INITIATING DEVICES AS OUTLINED.
- EXTEND EXISTING LOOP AND PROVIDE NEW ADDRESSABLE INITIATING DEVICES AS OUTLINED.
- PROVIDE NEW SIGNALING DEVICES AS OUTLINED.
- INCLUDE FOR SYSTEM VERIFICATIONS & INTEGRATED TESTING.

K5 — EXISTING EDWARDS FIRE ALARM ANNUNCIATOR PANEL (FAAP) SHALL REMAIN. MODIFY ZONE LABELING TO REFLECT CONTROL PANEL ALTERATIONS.

K6 — EXISTING FIRE ALARM ZONING GRAPHIC TO BE UPDATED BY OTHERS. TYPICAL FOR MULTIPLE GRAPHICS, NOT ALL INDICATED.

K7 — EXISTING 'PTWB' (SQUARE D 'NQ', 120/208V, 400A, 3ø, 4W) SHALL REMAIN.
- PROVIDE 15A-1P BREAKER AND BRANCH WIRING FROM TWBS TO SERVE NEW DOOR OPERATOR.
- PROVIDE UPDATED TYPED DIRECTORY.

K8 — PROVIDE NEW LUMINAIRE. MAINTAIN EXISTING BRANCH WIRING & LIGHTING CONTROLS.

K9 — REWORK EXISTING CEILING-MOUNTED FIXTURES/DEVICES, AND DECK MOUNTED SERVICES (NOT ALL INDICATED) TO PERMIT MECHANICAL & STRUCTURAL MODIFICATIONS AND CEILING REMOVALS BY OTHERS.

K10 — PROVIDE NEW ACCESS CONTROL/SECURITY DEVICES. CUT AND PATCH EXISTING WALL CONSTRUCTION AS REQUIRED.

K11 — DELETE EXISTING BRANCH WIRING AND ASSOCIATED CONTROLS FOR DELETED MECHANICAL EQUIPMENT.

K12 — DELETE EXISTING BRANCH WIRING, ASSOCIATED CONTROLS, DUCT SMOKE AND EQUIPMENT SHUTDOWN DEVICES FOR DELETED MECHANICAL EQUIPMENT.

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DRAWING LIST

E1.1	ELECTRICAL KEY PLANS
E2.1	LIFE SAFETY PLAN
E2.2	LIFE SAFETY PLAN
E3.1	PARTIAL EXISTING POWER & COMMS PLANS
E3.2	PARTIAL EXISTING LIGHTING PLANS
E3.3	PARTIAL EXISTING ELECTRICAL PLANS
E3.4	PARTIAL EXISTING ROOF PLANS
E4.1	PARTIAL REVISED POWER & COMMS PLANS
E4.2	PARTIAL REVISED LIGHTING PLANS
E4.3	PARTIAL REVISED ELECTRICAL PLANS
E4.4	PARTIAL REVISED ROOF PLANS
E5.1	ELECTRICAL LEGEND & SCHEDULES
E5.2	PARTIAL SINGLE LINE DIAGRAM
E5.3	PARTIAL SINGLE LINE DIAGRAM & PANEL SCHEDULES
E5.4	ELECTRICAL DETAILS & SCHEMATICS

PROJECT NORTH

LICENSED PROFESSIONAL ENGINEER
03.25.26
A. W. GUBBELS
PROVINCE OF ONTARIO

MNE Engineering Inc.
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Kitchener, Ontario N2C 2G5
(519) 894-6408
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	ISSUED FOR	
02.13.26	ISSUED FOR COORDINATION	A.W.G.
02.27.26	ISSUED FOR COORDINATION	A.W.G.
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WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

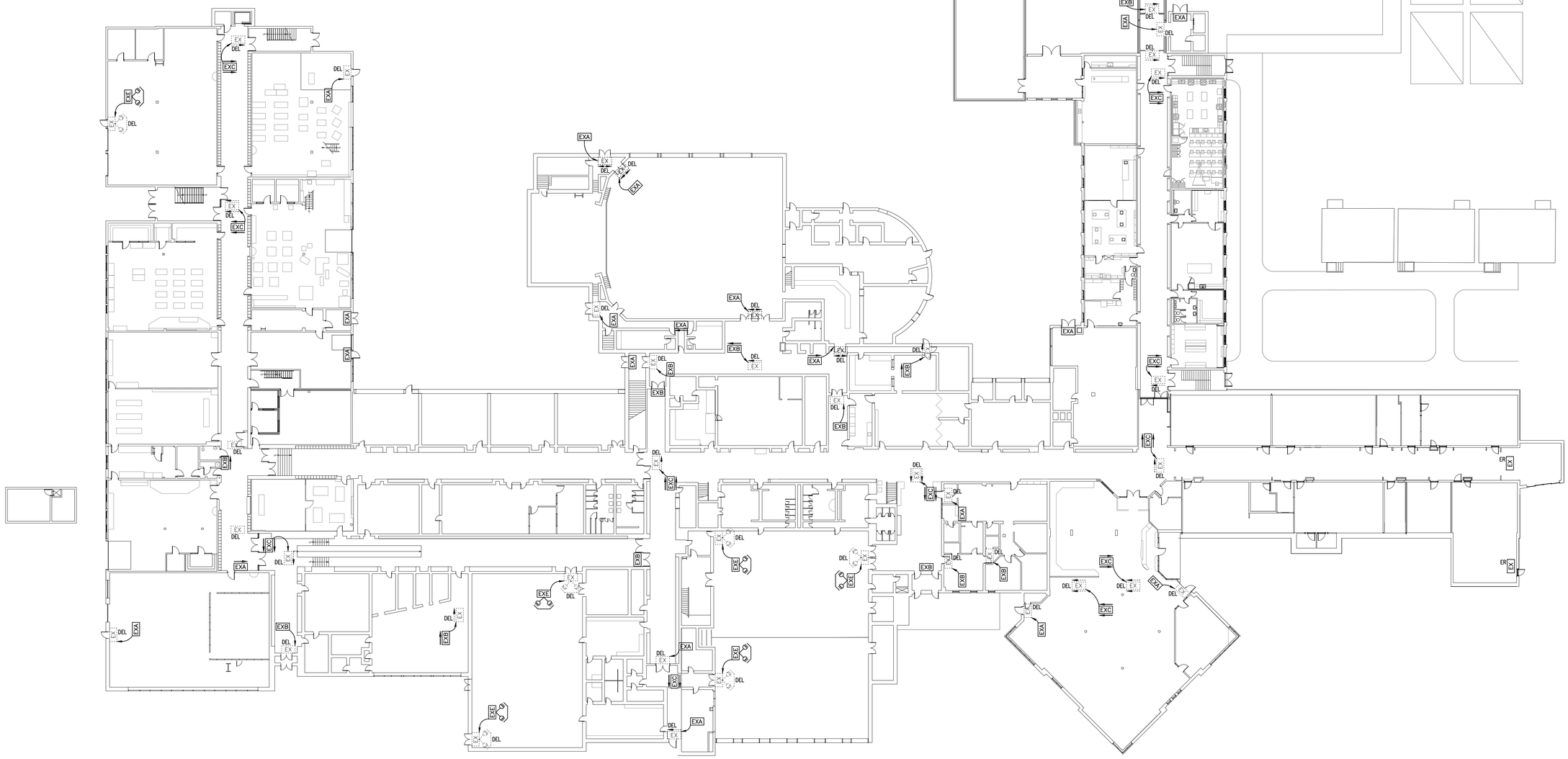
1206 Snyder's Rd W, Baden, On N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Checked By:	A.W.G.
Drawn By:	A.W.T.
Project No.:	26012

ELECTRICAL KEY PLANS

E1.1



1 E2.1 GROUND FLOOR LIFE SAFETY PLAN
SCALE 1:300

DELETE EXIT SIGNS AS INDICATED. MAINTAIN 120V CIRCUIT FOR NEW SIGNS. EXTEND 120V CIRCUIT(S) TO NEW EXIT SIGNS AS REQUIRED.

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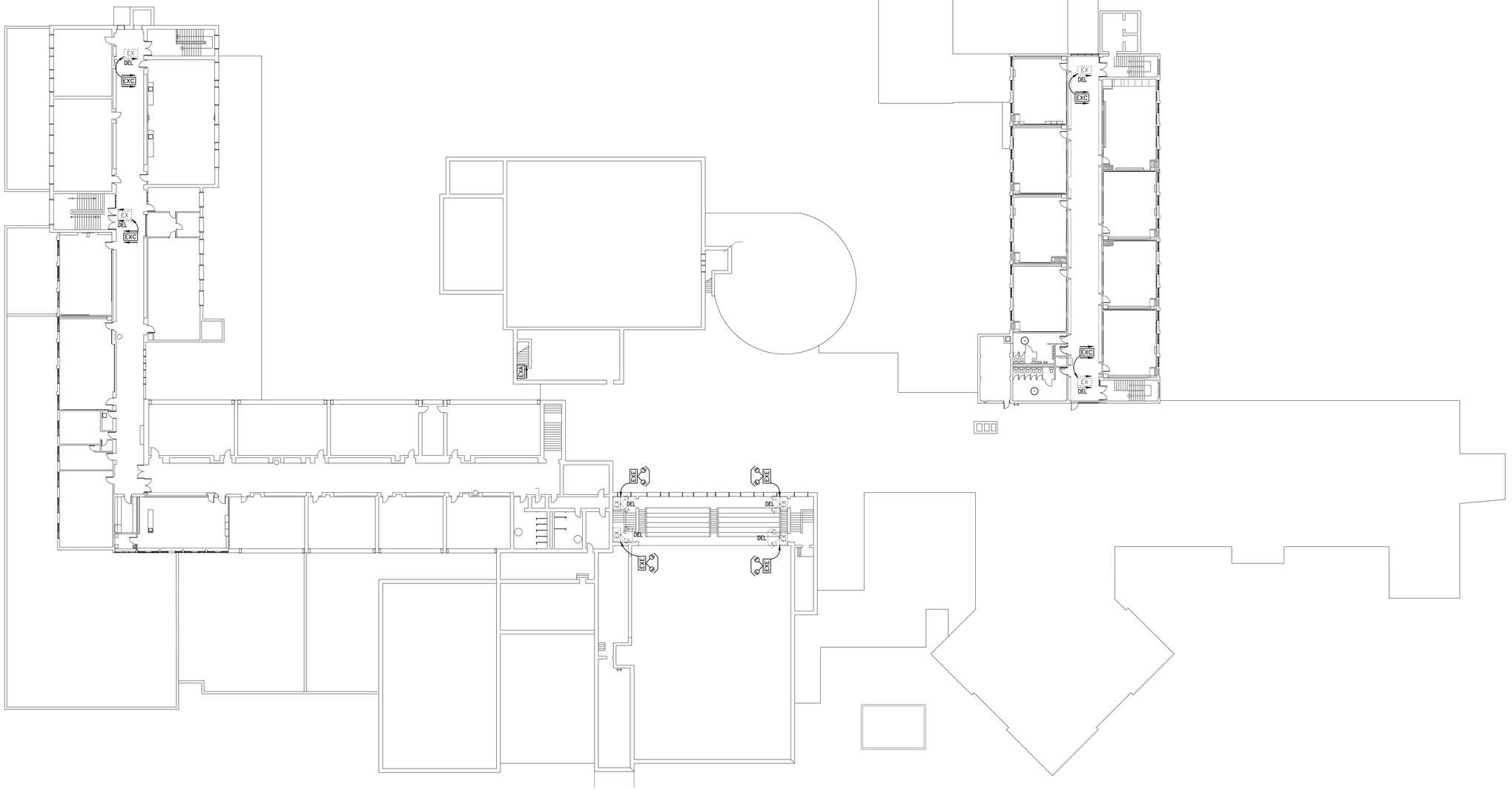
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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	26012
Drawn By:	A.W.T.
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LIFE SAFETY PLAN

E2.1



1 E2.2 SECOND FLOOR LIFE SAFETY PLAN
SCALE 1:300

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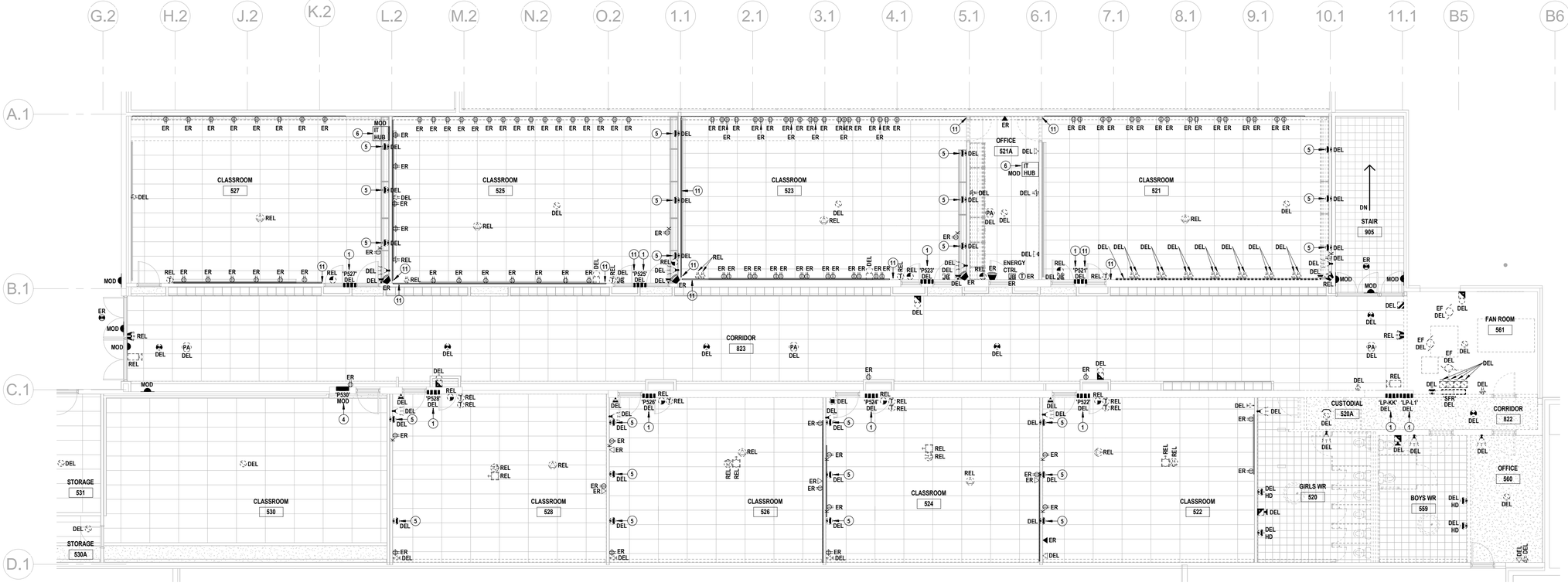
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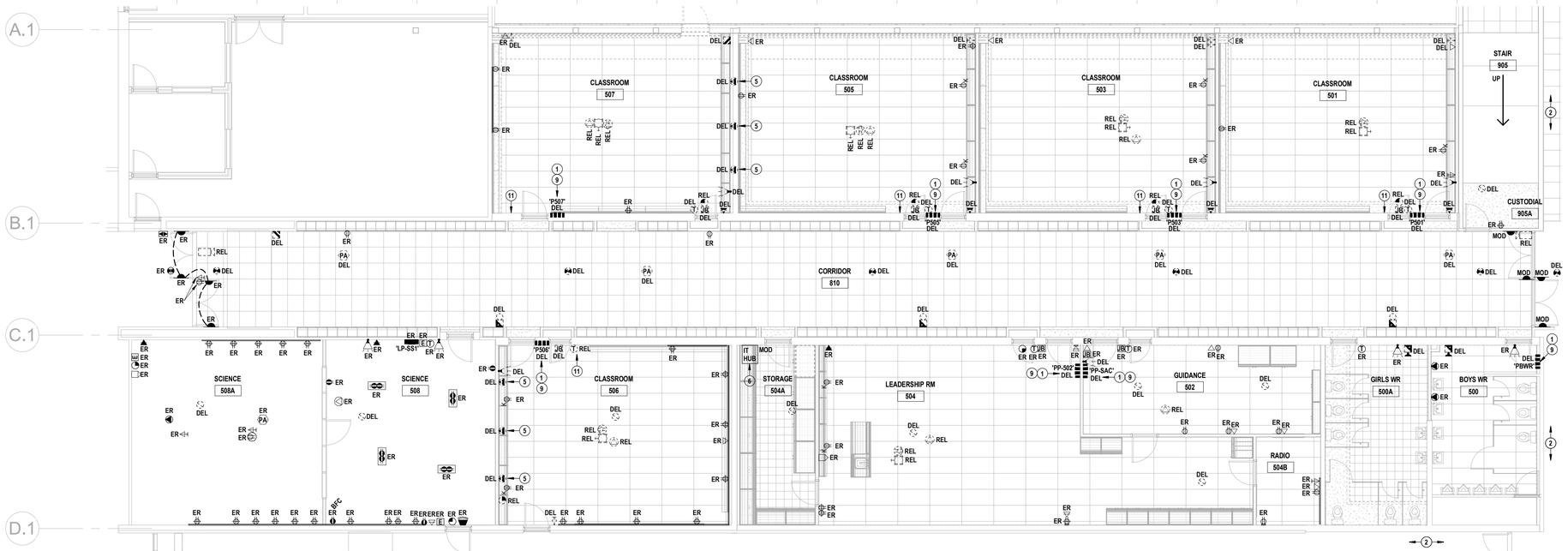
Project No.: 26012
Drawn By: A.W.T.
Checked By: A.W.G.

LIFE SAFETY PLAN

E2.2



2 E3.1 **PARTIAL EXISTING SECOND FLOOR POWER & COMMS PLAN**
SCALE: 1 : 100



1 E3.1 **PARTIAL EXISTING GROUND FLOOR POWER & COMMS PLAN**
SCALE: 1 : 100

EXISTING DRAWING NOTES

1. DELETE EXISTING DISTRIBUTION PANEL.
   - CUTTING, PATCHING AND FINISHING OF WALL CONSTRUCTION BY OTHERS.
   - REFER TO SLD.
   - SALVAGE BREAKERS AND PANEL. TURN OVER TO SCHOOL CUSTODIAN FOR FUTURE MAINTENANCE USE.
   - REWORK EXISTING BRANCH CIRCUITS TO NEW PANELS.
2. REWORK EXISTING CEILING-MOUNTED FIXTURES/DEVICES, AND DECK MOUNTED SERVICES (NOT ALL INDICATED) TO PERMIT MECHANICAL & STRUCTURAL MODIFICATIONS AND CEILING REMOVALS BY OTHERS.
3. REFER TO SLD FOR MODIFICATIONS.
4. REFER TO PANEL SCHEDULE FOR MODIFICATIONS.
5. REMOVE REDUNDANT BALLAST BOX. PATCH WALL. WALL FINISH BY OTHERS.
6. EXISTING IT HUB SHALL BE MODIFIED BY OTHERS.
7. DELETE EXISTING LIGHTING CONTROL DEVICE. LIGHTING CONTROL DEVICE IS GANGED WITH ADJACENT DEVICE. PROVIDE NEW COVERPLATE OF CONFIGURATION TO SUIT EXISTING DEVICES TO REMAIN.
8. CUTTING, PATCHING & FINISHING OF WALL BY OTHERS AS REQUIRED TO RECESS THE NEW DEVICE AT THE SPECIFIED HEIGHT.
9. REMOVE EXISTING FEEDER BACK TO SOURCE. FIELD VERIFY SOURCE.
10. MODIFY EXISTING PANEL LP-N (FEDERAL PIONEER NBLP 42B-4L, 120/208V, 3PH, 4W, 225A).
    - REWORK 15A-1P BREAKER AND BRANCH WIRING FROM N32 TO N37.
    - REWORK 15A-1P BREAKER AND BRANCH WIRING FROM N34 TO N42.
    - PROVIDE 15A-2P BREAKER AND BRANCH WIRING FROM N32,34 TO NEW EXHAUST FAN EF-20.
    - PROVIDE UPDATED TYPED PANEL DIRECTORY.
11. REWORK SURFACE RACEWAY (NOT ALL INDICATED) TO ACCOMODATE NEW INSTALLATIONS.
12. RESERVED.
13. REWORK EXISTING SERVICE POLE AS REQUIRED TO ACCOMMODATE CEILING REVISIONS.
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CEILINGS
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- INCLUDE FOR STRAPPING EXISTING CONDUITS AND CABLES THAT ARE NOT PROPERLY SUPPORTED AND ARE REQUIRED TO REMAIN.
- IN THE CORRIDORS, MOVE EXISTING COMMUNICATIONS CABLING ONTO NEW HANGERS.

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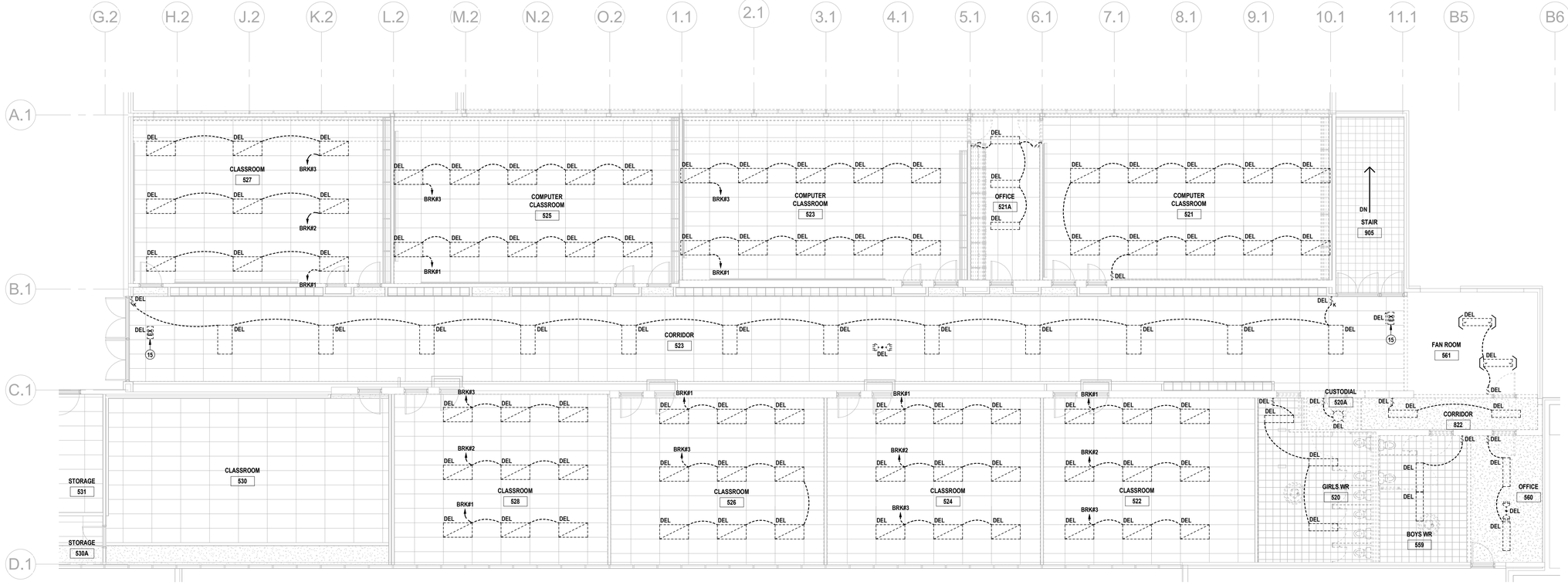
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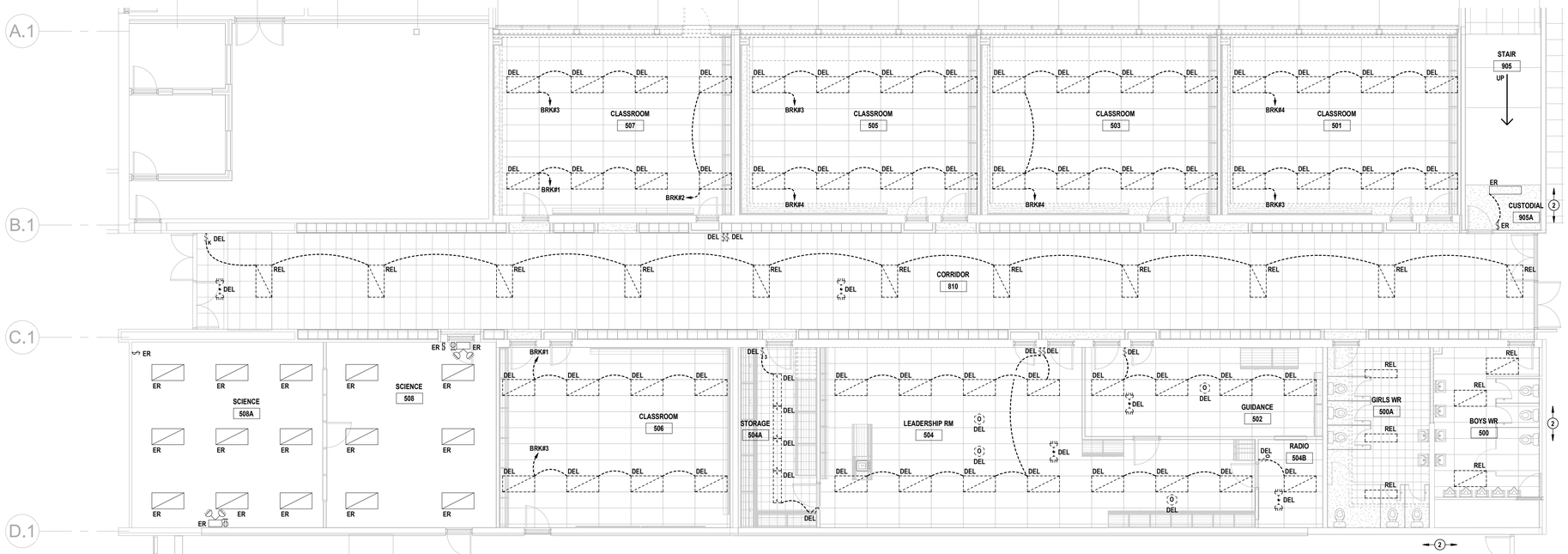
Project No.: 26012
Drawn By: A.W.T.
Checked By: A.W.G.

PARTIAL EXISTING POWER & COMMS PLANS

E3.1



2 / E3.2 **PARTIAL EXISTING SECOND FLOOR LIGHTING PLAN**
SCALE: 1 : 100



1 / E3.2 **PARTIAL EXISTING GROUND FLOOR LIGHTING PLAN**
SCALE: 1 : 100

EXISTING DRAWING NOTES

1. DELETE EXISTING DISTRIBUTION PANEL.
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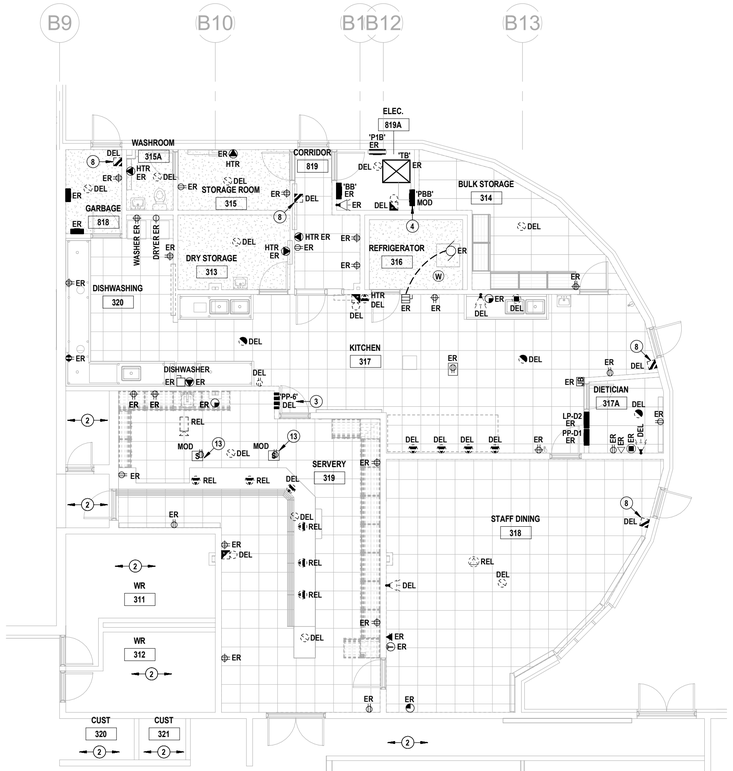
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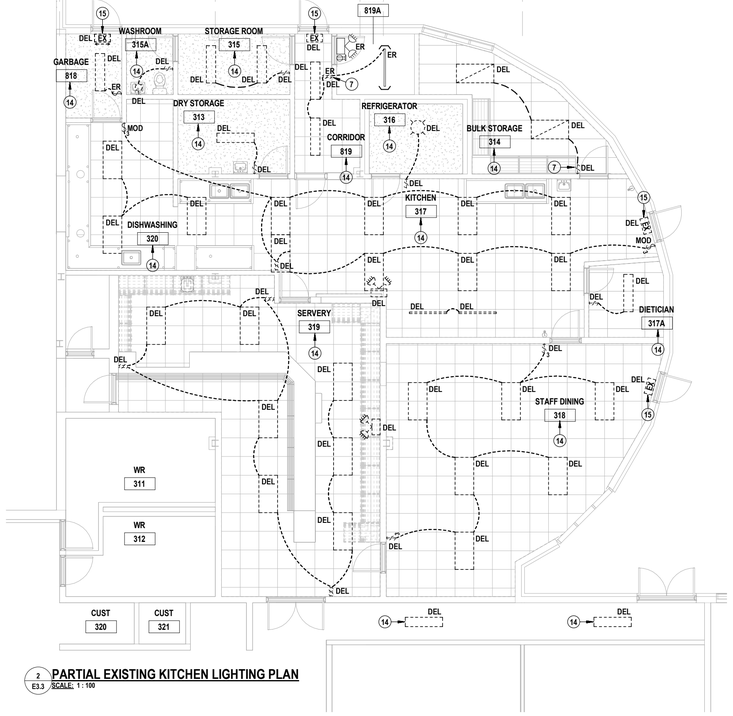
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PARTIAL EXISTING LIGHTING PLANS

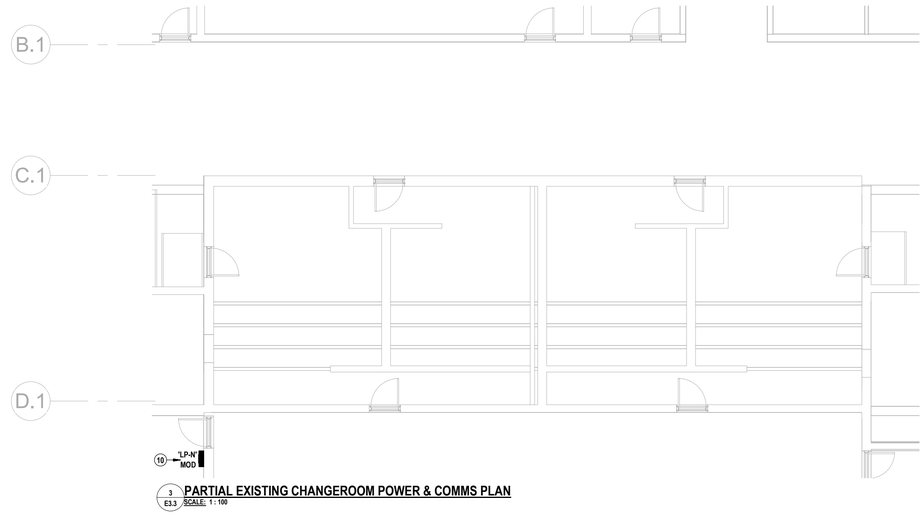
E3.2



1 E3.3 **PARTIAL EXISTING KITCHEN POWER & COMMS PLAN**
SCALE: 1 : 100



2 E3.3 **PARTIAL EXISTING KITCHEN LIGHTING PLAN**
SCALE: 1 : 100



3 E3.3 **PARTIAL EXISTING CHANGEROOM POWER & COMMS PLAN**
SCALE: 1 : 100

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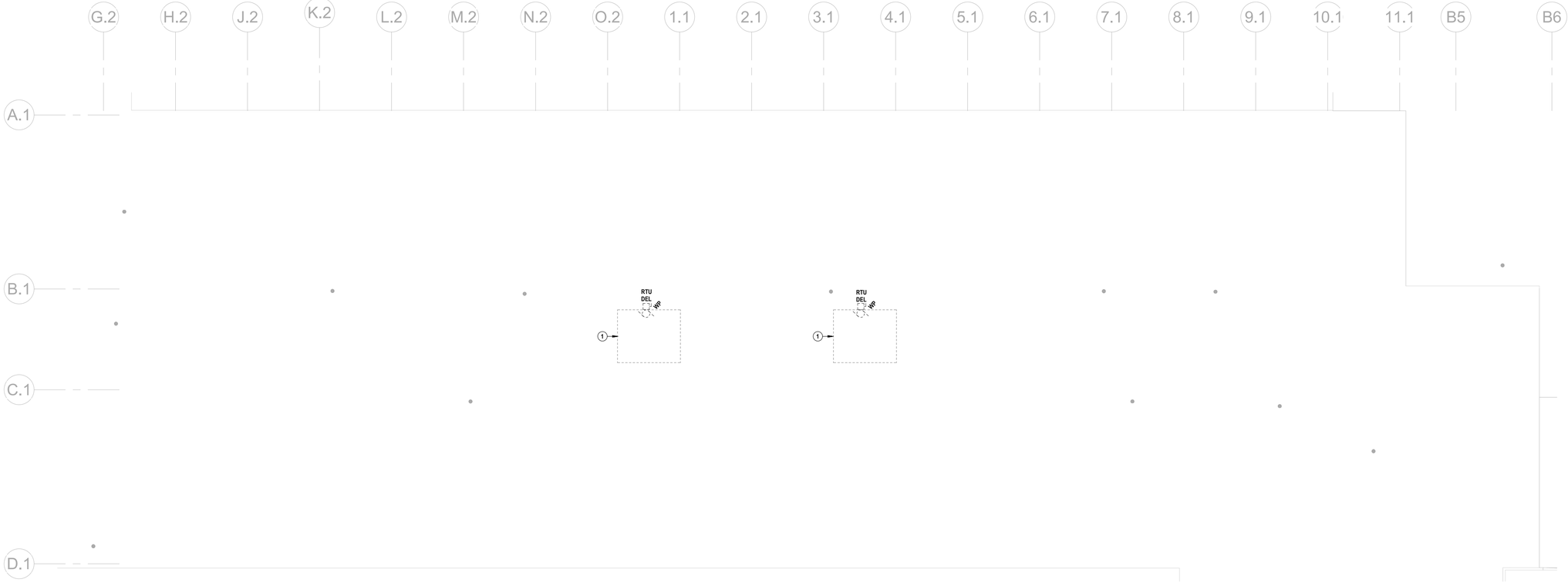
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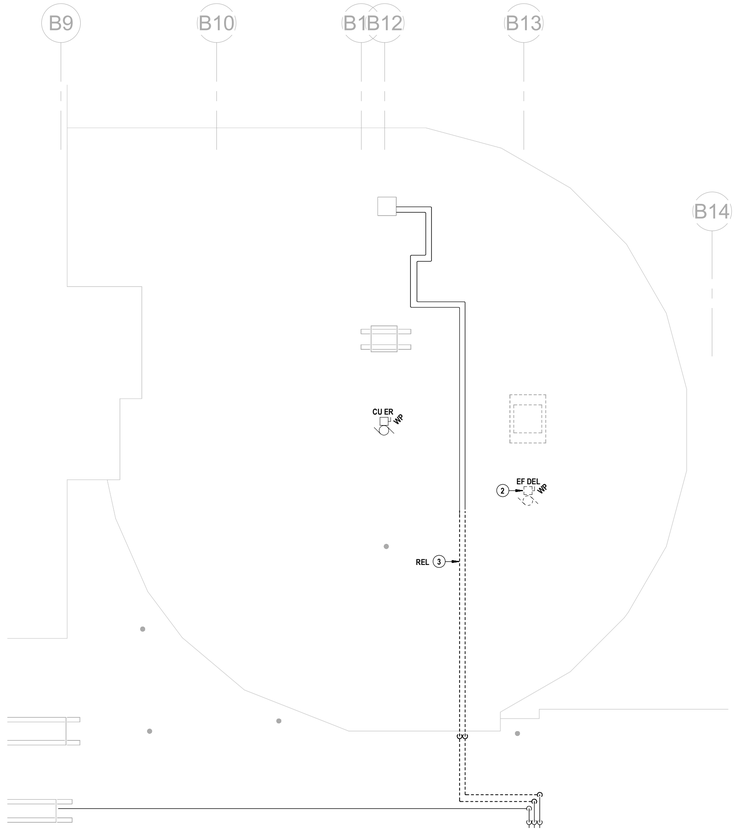
Checked By: A.W.G.
Drawn By: A.W.T.
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PARTIAL EXISTING ELECTRICAL PLANS

E3.3



1 / E3.4 **PARTIAL EXISTING ROOF PLAN**
SCALE: 1 : 100



2 / E3.4 **PARTIAL EXISTING KITCHEN ROOF PLAN**
SCALE: 1 : 100

EXISTING ROOF NOTES

1. EXISTING ROOFTOP UNIT TO BE DELETED & REPLACED WITH NEW BY DIVISION 23.
   - DELETE EXISTING BRANCH FEEDER.
   - DELETE LOCAL DISCONNECT SWITCH.
   - DELETE CONDUIT, ASSOCIATED SUPPORTS, BOXES, ETC. (NOT ALL INDICATED).
   - REPAIR ROOF PENETRATIONS. COORDINATE WITH MECHANICAL AND ROOFING TRADES.
2. EXISTING FAN TO BE DELETED BY DIVISION 23.
   - DELETE EXISTING BRANCH FEEDER.
   - DELETE CONDUIT, ASSOCIATED SUPPORTS, BOXES, ETC. (NOT ALL INDICATED).
   - REPAIR ROOF PENETRATIONS. COORDINATE WITH MECHANICAL AND ROOFING TRADES.
3. REROUTE EXISING PARALLEL TECK CABLES TO ACCOMODATE NEW ROOF MOUNTED HVAC EQUIPMENT INSTALLATIONS. REUSE EXISTING SUPPORTS.

PROJECT NORTH

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MNE ENGINEERING

02.13.26	ISSUED FOR COORDINATION	A.W.G.
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Waterloo Oxford District Secondary School

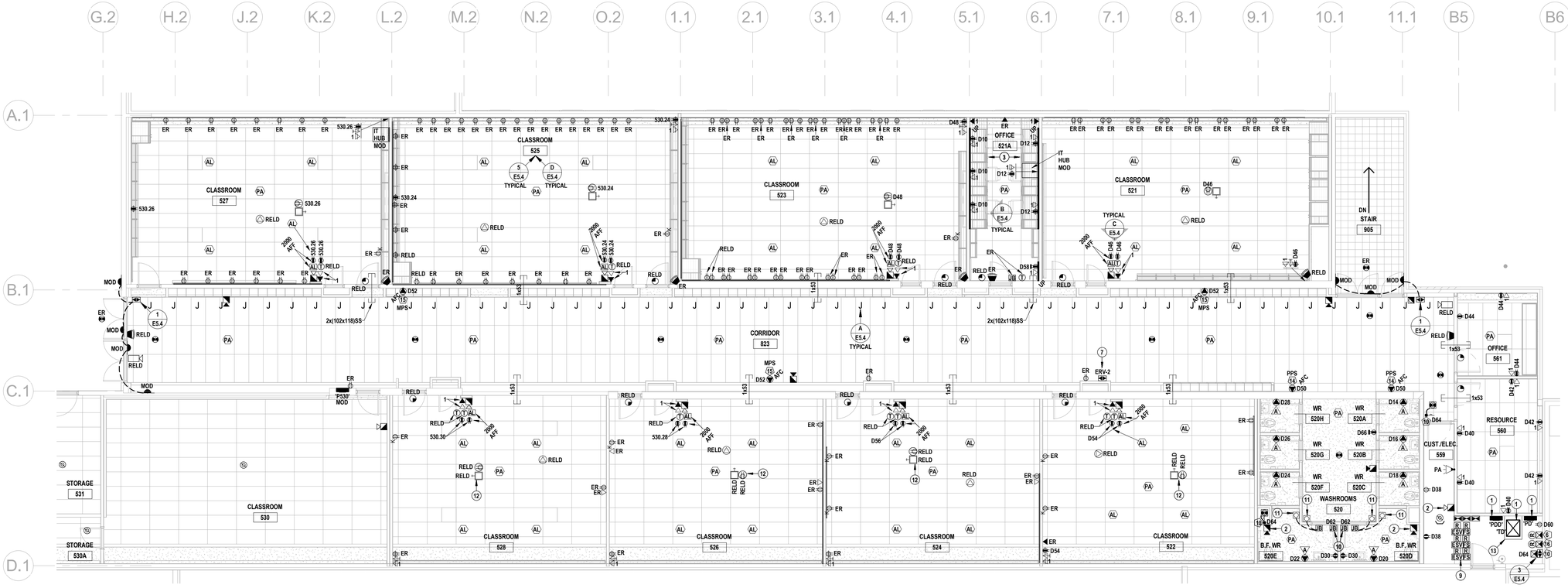
1206 Snyder's Rd W, Baden, ON N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

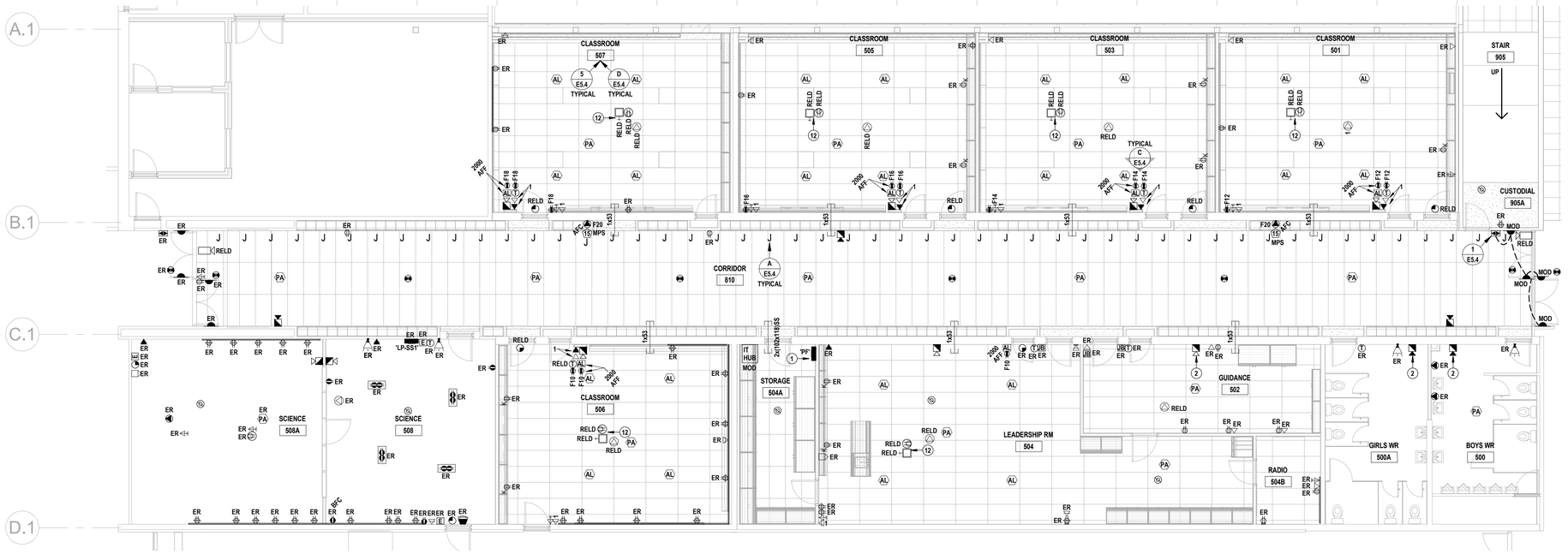
Project No.:	26012
Drawn By:	A.W.T.
Checked By:	A.W.G.

PARTIAL EXISTING ROOF PLANS

E3.4



2 / E4.1 **PARTIAL REVISED SECOND FLOOR POWER & COMMS PLAN**
SCALE: 1 : 100



1 / E4.1 **PARTIAL REVISED GROUND FLOOR POWER & COMMS PLAN**
SCALE: 1 : 100

REVISED DRAWING NOTES

1. PROVIDE NEW DISTRIBUTION EQUIPMENT. REFER TO SLD.
2. FIELD ADJUST TO LOWER AUDIBILITY.
3. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS & MILLWORK SUBCONTRACTOR.
4. CONNECT TO NEW ROOM LIGHTING BRANCH CIRCUIT, UPSTREAM OF CONTROLS.
5. CONNECT LUMINAIRES TO EXISTING (REUSED) ROOM LIGHTING CIRCUIT.
6. PROVIDE CHAIN SUSPENSION FROM EXISTING STRUCTURE.
7. PROVIDE CLEARLY LABELED FIRE ALARM RELAY FOR EQUIPMENT SHUTDOWN.
8. KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL PROVIDED BY OTHERS. PROVIDE CONTROL WIRING FROM AUXILIARY CONTACTS TO A SUITABLY SIZED POWER CONTACTOR. PROVIDE POWER WIRING SUCH THAT ALL LOADS BENEATH THE KITCHEN HOOD ARE DE-ENERGIZED WHEN THE FIRE SUPPRESSION SYSTEM IS ACTIVATED.
9. PROVIDE NEW FIRE ALARM DEVICES FOR THE FOLLOWING NEW ZONES:
   GROUND FLOOR CENTRAL 1 FLOW.
   GROUND FLOOR CENTRAL 1 VALVE.
   GROUND FLOOR CENTRAL 2 FLOW.
   GROUND FLOOR CENTRAL 2 VALVE.
   SECOND FLOOR CENTRAL 3 FLOW.
   SECOND FLOOR CENTRAL 3 VALVE.
10. PROVIDE BRANCH WIRING TO A JUNCTION BOX ABOVE DOOR FOR FUTURE DOOR OPERATORS.
11. PROVIDE ROUGH-IN FOR FUTURE DOOR OPERATOR PUSH BUTTON.
    - PROVIDE SINGLE GANG BOX AND 21mm EMT CONDUIT TO A JUNCTION BOX ABOVE THE DOOR.
    - PROVIDE BLANK COVER PLATE.
12. PROVIDE NEW MOUNTING HARDWARE FOR THE PROJECTOR.
13. PROVIDE BRANCH WIRING TO CONNECT TO EXISTING 120V EXIT LIGHTING CIRCUIT.
14. PROVIDE AN ADDRESSABLE INPUT MODULE AND CONNECT CONTACTS IN THE FIRE SUPPRESSION SYSTEM SO THAT AN ALARM CONDITION IS GENERATED WHEN THE SUPPRESSION SYSTEM IS ACTIVATED.

COMMUNICATIONS & SECURITY PATHWAYS
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- PROVIDE A 27MM EMT RISER CONDUIT FROM EACH OUTLET BOX WITH MORE THAN TWO DROPS AND FROM EACH AUDIO/VIDEO BOX.
- PATHWAY LENGTHS FOR HDMI CABLING SHALL BE MINIMIZED.
- PROVIDE EMT CONDUIT SLEEVES CONCEALED AFC & WITHIN WALLS, OF THE QUANTITY & DIAMETER INDICATED. SEAL ALL RATED PENETRATIONS.
- PROVIDE OUTLET BOXES FOR ALL INDICATED DEVICES.
- ALL CONDUITS & SLEEVES SHALL BE COMPLETE WITH PULL TAPES & PLASTIC BUSHINGS.

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CEILING SPACES ARE USED AS A RETURN AIR PLENUM. THE ELECTRICAL SUBCONTRACTOR SHALL ENSURE THAT ALL NEW WIRING & CABLING WITHIN PLENUM SPACES IS TOTALLY ENCLOSED IN NON-COMBUSTIBLE RACEWAYS OR IS FT-6 RATED (ALSO KNOWN AS COMMUNICATIONS MEDIA PLENUM, OR CMP).

LIGHTING CONTROLS
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WHERE INDICATED, LUMINAIRES SHALL BE CONTROLLED BY OCCUPANCY SENSORS.
- PROVIDE POWER PACKS (NOT INDICATED) FOR THE SENSORS. LOCATE ABOVE ACCESSIBLE CEILINGS & PROVIDE CMP LOW VOLTAGE CABLING.
- PARALLEL SENSORS FOR CONTROL OF AREAS AS TAGGED.
- ADJUST SENSORS PER MANUFACTURERS INSTRUCTIONS AS REQUIRED TO PROVIDE ADEQUATE DETECTION.
- SWITCHES ARE FOR MANUALLY BYPASSING THE SENSOR(S) TO TURN OFF THE LIGHTING AS CIRCUITED.
- REFER TO 'LIGHTING CONTROL SCHEDULE'.

WHERE NO CIRCUIT IS OUTLINED, REUSE EXISTING LIGHTING BRANCH CIRCUITS FOR NEW LUMINAIRES.

SPRINKLERS
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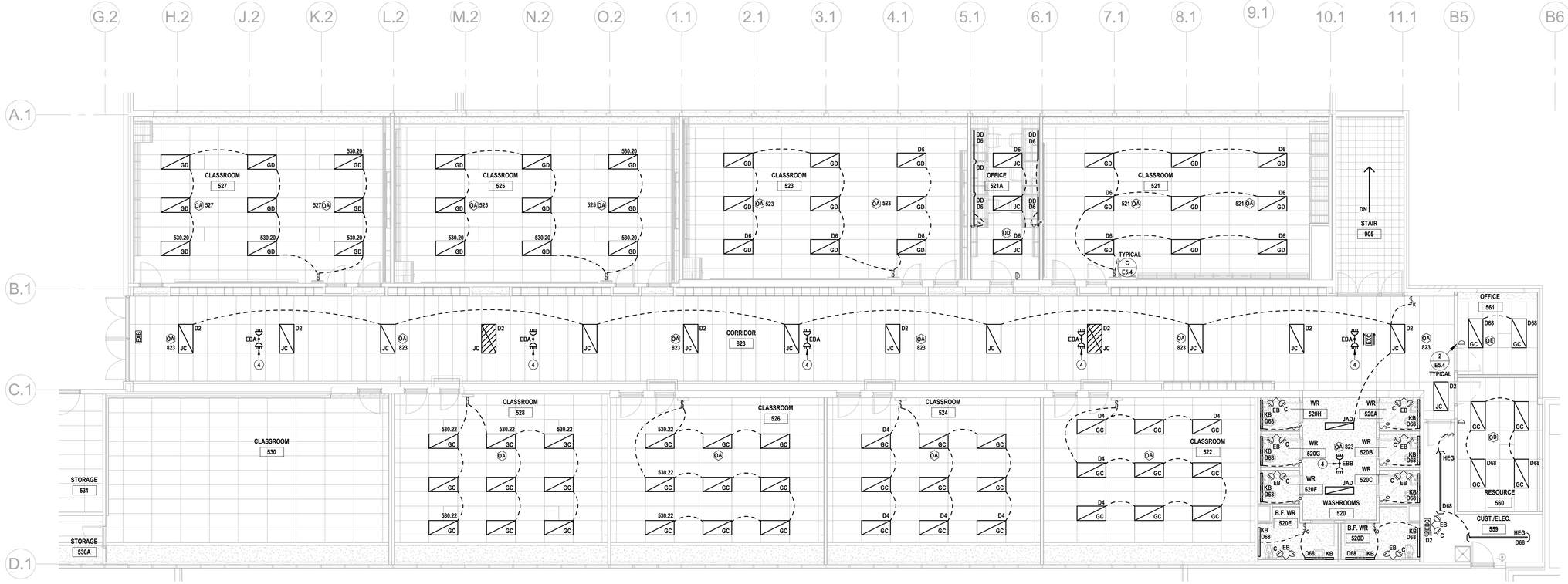
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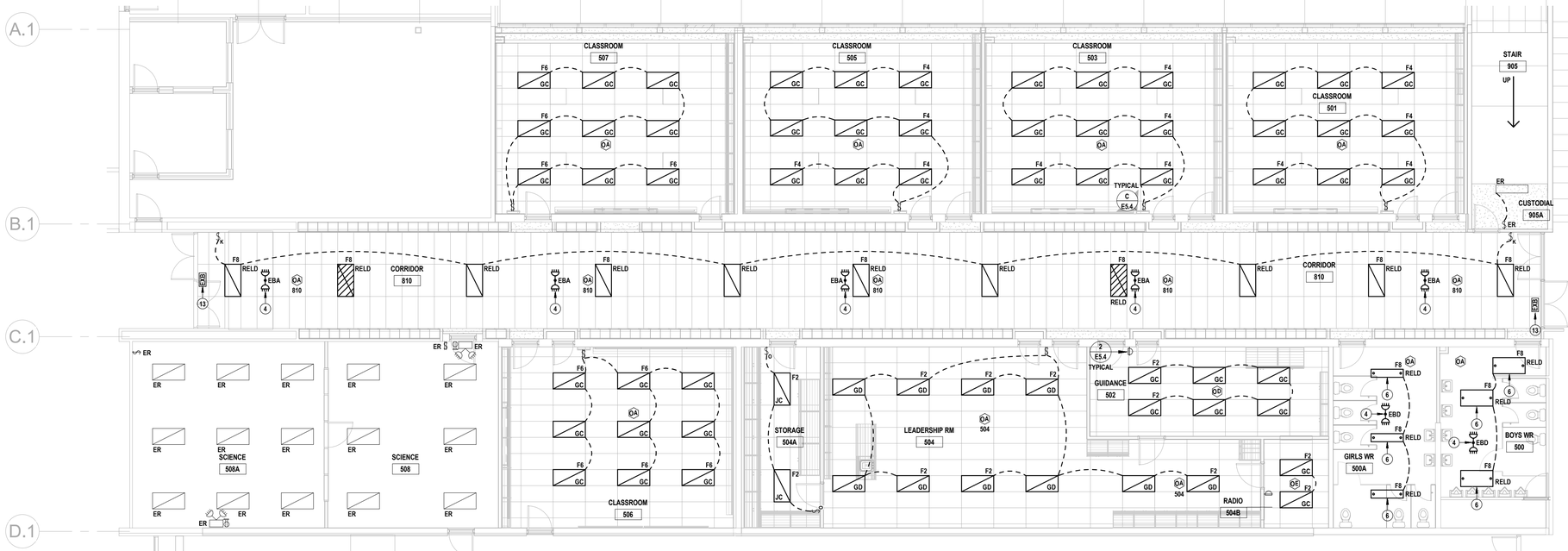
Project No.:	26012
Drawn By:	A.W.T.
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PARTIAL REVISED POWER & COMMS PLANS

E4.1



2 E4.2 **PARTIAL REVISED SECOND FLOOR LIGHTING PLAN**
SCALE: 1 : 100



1 E4.2 **PARTIAL REVISED GROUND FLOOR LIGHTING PLAN**
SCALE: 1 : 100

REVISED DRAWING NOTES

1. PROVIDE NEW DISTRIBUTION EQUIPMENT. REFER TO SLD.
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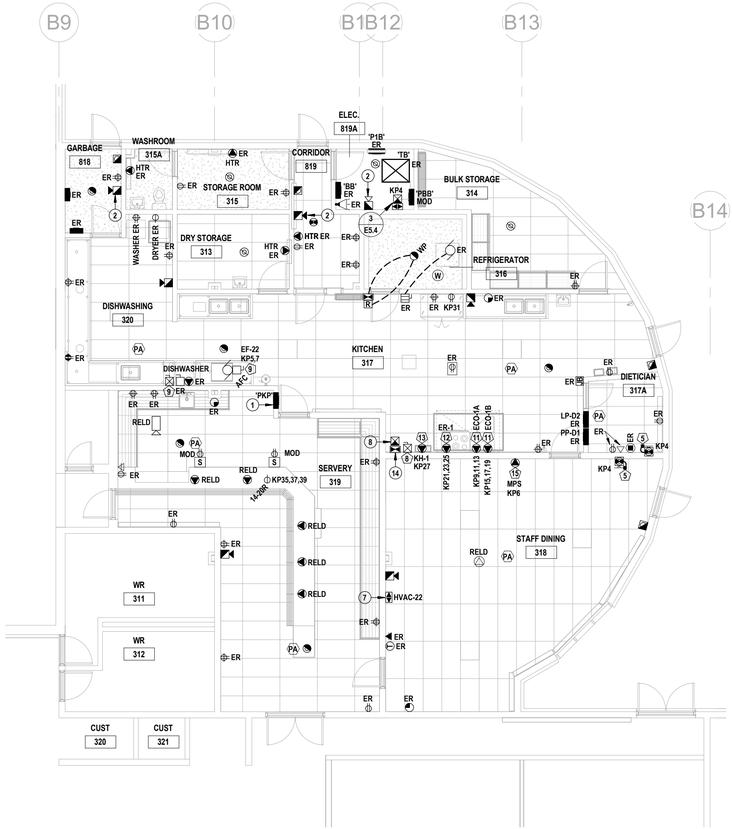
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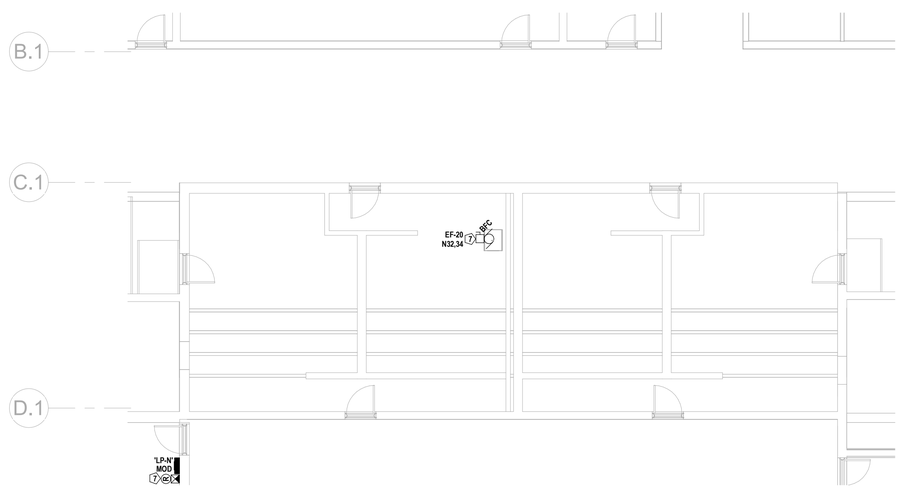
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PARTIAL REVISED LIGHTING PLANS

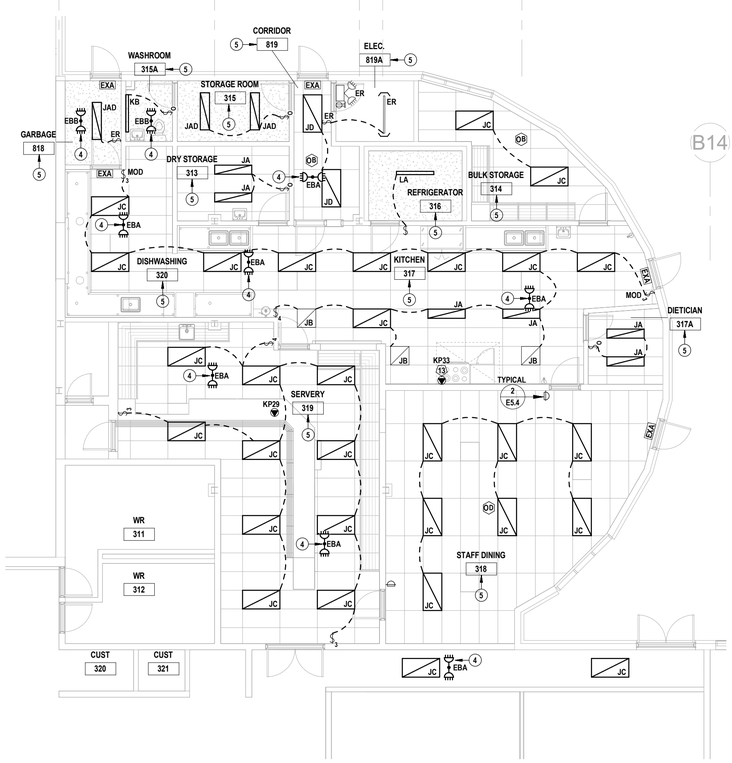
E4.2



1 E4.3 **PARTIAL REVISED KITCHEN POWER & COMMS PLAN**
SCALE 1 : 100



3 E4.3 **PARTIAL REVISED CHANGEROOM POWER & COMMS PLAN**
SCALE 1 : 100



2 E4.3 **PARTIAL REVISED KITCHEN LIGHTING PLAN**
SCALE 1 : 100

REVISED DRAWING NOTES

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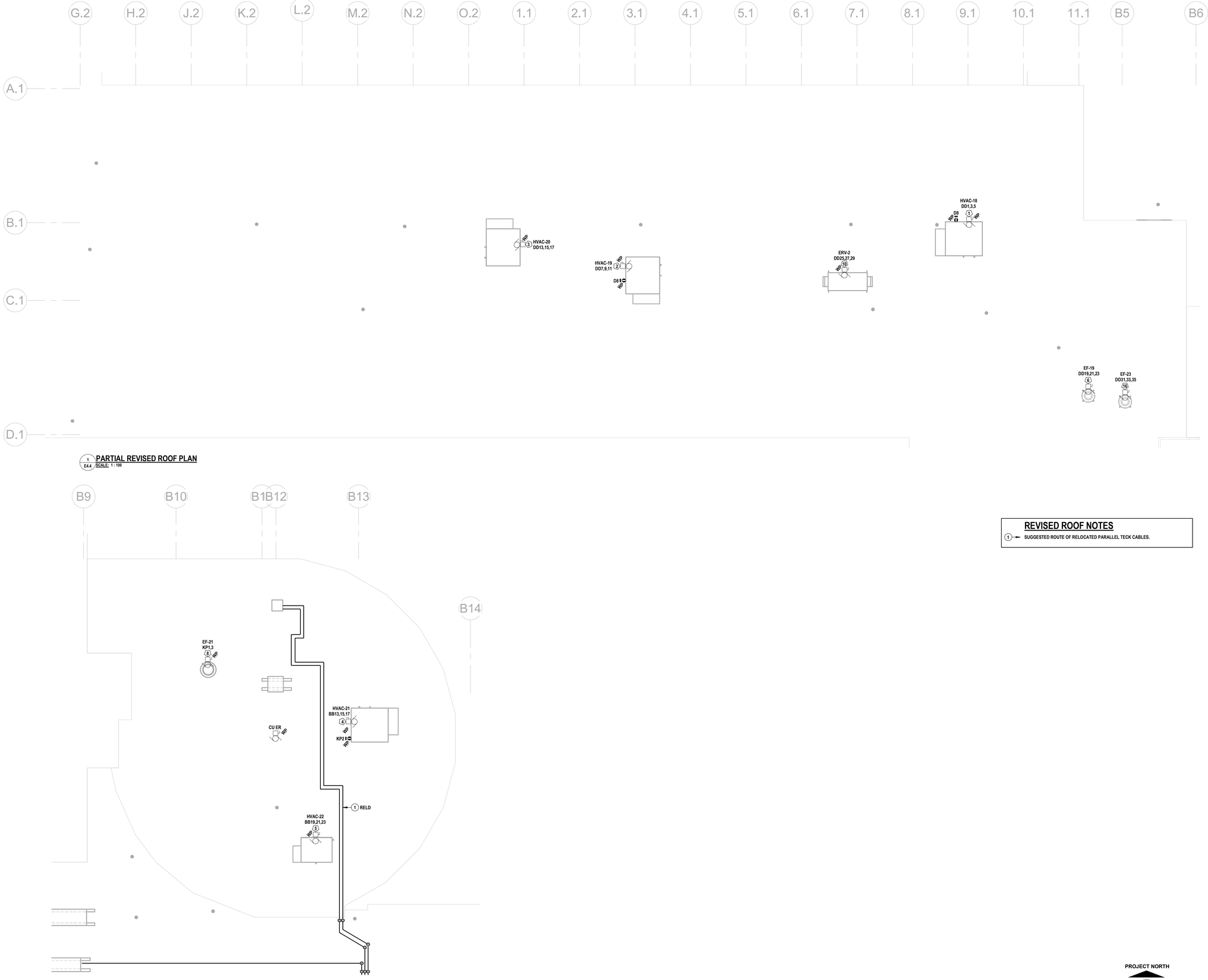
WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

1206 Snyder's Rd W, Baden, ON N3A 1A4

Checked By: A.W.G.
Drawn By: A.W.T.
Project No.: 26012

PARTIAL REVISED ELECTRICAL PLANS

E4.3



1 E4.4 **PARTIAL REVISED ROOF PLAN**
SCALE: 1 : 100

2 E4.4 **PARTIAL REVISED KITCHEN ROOF PLAN**
SCALE: 1 : 100

REVISED ROOF NOTES

1. SUGGESTED ROUTE OF RELOCATED PARALLEL TECK CABLES.

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WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Project No.:	Drawn By:	Checked By:
26012	A.W.T.	A.W.G.

PARTIAL REVISED ROOF PLANS

E4.4

ELECTRICAL LEGEND

USE	SYMBOL	DESCRIPTION	USE	SYMBOL	DESCRIPTION
		LIGHTING			**RECEPTACLES**
✓		RECESSED LUMINAIRE 'x'	✓		DUPLEX RECEPTACLE
✓		SURFACE LINEAR LUMINAIRE 'x'	✓		RECEPTACLE ABOVE MILLWORK
✓		SUSPENDED LINEAR LUMINAIRE 'x'	✓		RECEPTACLE IN KICK SPACE
✓	x	CEILING MOUNTED LUMINAIRE 'x'			SPLIT RECEPTACLE
✓	x	WALL MOUNTED LUMINAIRE 'x'	✓		GFCI RECEPTACLE
	x	POLE MOUNTED LUMINAIRE 'x'			UPS-BACKED RECEPTACLE
	x	SPOT OR FLOOD LUMINAIRE 'x'	✓		RECEPTACLE, 20A, T-SLOT
	x	WALL SCONCE LUMINAIRE 'x'	✓		TAMPER RESISTANT RECEPTACLE
✓		NIGHT LUMINAIRE	✓		2-POLE OR 3-POLE RECEPTACLE
✓		EMERGENCY LUMINAIRE - WALL	✓		FLOOR/TABLE MOUNTED OUTLET
✓		EMERGENCY LUMINAIRE - CEILING	✓		CEILING/DECK MOUNTED OUTLET
✓	EBx	EMERGENCY BATTERY PACK 'x'	✓		RACEWAY POWER OUTLET
✓	Ex	EXIT SIGN 'x'			CORD REEL
		SWITCHING & CONTROLS			**EQUIPMENT & DISTRIBUTION**
✓	$	SWITCH	✓		MOTOR
✓	$	MULTIPLE GANG SWITCHES	✓		NON-FUSED DISCONNECT SWITCH
✓	$3	3-WAY SWITCH	✓		FUSED DISCONNECT SWITCH
✓	$4	4-WAY SWITCH			MANUAL STARTER
	$x	SWITCH 'x'	✓		COMBINATION STARTER
✓	$O	OCCUPANCY SENSOR WALL SWITCH			MAGNETIC STARTER
✓	$V	VACANCY SENSOR WALL SWITCH	✓		RELAY/CONTACTOR
✓	$K	KEY CONTROLLED SWITCH		A	ADJUSTABLE FREQUENCY DRIVE
✓	Ox	OCCUPANCY/VACANCY SENSOR 'x'	✓	x	EQUIPMENT IDENTIFIER
	OxL	OCCUPANCY/VACANCY SENSOR 'x', EMERGENCY	✓		DISTRIBUTION PANEL
	DS	DAYLIGHT SENSOR			ELECTRIC BASEBOARD HEATER
	PC	PHOTO CELL			ELECTRIC FAN FORCED HEATER
✓	Dx	DIMMER SWITCH 'x'	✓		ELECTRIC HEATER IDENTIFIER
		VARIABLE SPEED CONTROLLER			CONDUIT/FEEDER ABOVE GRADE
	TS	TIME SWITCH			CONDUIT/FEEDER BELOW GRADE
	TC	TIME CLOCK	✓		PROTECTIVE GUARD
	P	PUSH BUTTON SWITCH	✓	JB	JUNCTION BOX
✓	T	THERMOSTAT (RA=REVERSE ACTING)		PB	PULL BOX
	F	FIRESTAT	✓	S	SERVICE POLE
✓		POWER DOOR OPERATOR BUTTON	✓		CLOCK
	L	POWER DOOR INDICATOR/LOCK	✓		DIRECT CONNECTION
✓		CALL STATION	✓	R	BAS RELAY
	E	EMERGENCY PUSH BUTTON	✓	J	HANGER
		COMMUNICATIONS			**FIRE ALARM & DETECTION**
✓		VOICE OUTLET	✓		ADDRESSABLE SMOKE DETECTOR
✓		DATA OUTLET	✓		ADDRESSABLE FIXED HEAT DETECTOR
		DATA & VOICE OUTLET			ADDRESSABLE R.O.R HEAT DETECTOR
✓		AUDIO/VIDEO INLET/OUTLET	✓		DETECTOR WITH RELAY BASE
✓		OUTLET ABOVE MILLWORK		CO CO	DETECTOR WITH DUCT HOUSING
		FLOOR/TABLE MOUNTED OUTLET	✓		DETECTOR WITH CARBON MONOXIDE SENSING
✓		CEILING/DECK MOUNTED OUTLET	✓		CONVENTIONAL SMOKE DETECTOR
✓		RACEWAY COMMUNICATIONS OUTLET	✓		CONVENTIONAL FIXED HEAT DETECTOR (H=HIGH TEMP)
		MICROPHONE/MIXER	✓		CONVENTIONAL R.O.R HEAT DETECTOR (H=HIGH TEMP)
✓	PA	PUBLIC ADDRESS CEILING SPEAKER	✓		ADDRESSABLE MANUAL STATION
✓	AL	ASSISTIVE LISTENING CEILING SPEAKER	✓		CONVENTIONAL MANUAL STATION
✓	AL	ASSISTIVE LISTENING RECEIVER/AMPLIFIER	✓		INPUT MODULE
		ASSISTIVE LISTENING DOME SENSOR		ZI	RELAY MODULE
✓	x	WALL SPEAKER 'x'	✓	ZI	ADDRESSABLE ZONE ISOLATOR
✓		DOOR/PROGRAM BELL		PS	ELECTRONICALLY SUPERVISED VALVE
		AUDIO/VISUAL BEACON	✓	FS	LOW PRESSURE SWITCH
	V	VOLUME CONTROL	✓		FLOW SWITCH
✓	+P	PROJECTOR 'x'			BELL
			✓		BELL/STROBE
		SECURITY	✓		HORN
✓	CA	SURVEILLANCE CAMERA 'x'			HORN/STROBE
✓	PR	PROXIMITY READER			SPEAKER
	EEX	ELECTRIC EGRESS DEVICE			SPEAKER/STROBE
	EML	ELECTROMAGNETIC LOCK			STROBE
	DC	DOOR CONTACT			SPECIAL FUNCTION SIGNAL
✓	DS	DOOR STRIKE	✓	R	SIGNALLING DEVICE - CEILING
	REX	REQUEST-TO-EXIT DETECTOR		FT	END OF LINE RESISTOR
✓		MOTION SENSOR	✓		FIRE FIGHTER EMERGENCY TELEPHONE
	K	ELECTRONIC KEYPAD		DC	DOOR HOLDER
		SIREN		DC	DOOR CLOSER
	IM	INTEGRATION MODULE BOX		S	SMOKE ALARM
		NURSE CALL DOME LIGHT		C	SMOKE/CARBON MONOXIDE ALARM
				SR	SMOKE/CARBON MONOXIDE ALARM RELAY
			✓		SMOKE DAMPER
				SI	SUITE SIGNAL ISOLATOR
				SS	SUITE SIGNAL SILENCE SWITCH

		INCIDENTALS			
✓	ER	EXISTING, TO REMAIN UNCHANGED		AFG	ABOVE FINISHED GRADE
✓	REL	EXISTING, TO BE RELOCATED	✓	AFF	ABOVE FINISHED FLOOR
✓	RELD	RELOCATED	✓	AFC	ABOVE FINISHED CEILING
✓	MOD	EXISTING, TO BE MODIFIED		BFG	BELOW FINISHED GRADE
✓	DEL	EXISTING, TO BE DELETED		BFF	BELOW FINISHED FLOOR
✓	W	WET LOCATION (*CATEGORY 1)	✓	BFC	BELOW FINISHED CEILING
	C	CORROSIVE LOCATION (*CATEGORY 2)	✓	WP	WEATHER PROOF
✓	PPS	PLUMBING POWER SUPPLY	✓	MPS	MECHANICAL POWER SUPPLY

* CATEGORY DEFINITIONS ARE AS PER SECTION 22 OF THE ONTARIO ELECTRICAL SAFETY CODE.

WIRING FOR EQUIPMENT SCHEDULE (*1)

EQUIPMENT				CHARACTERISTICS						STARTERS					ACCESSORIES		ISOLATING DEVICE		REMOTE CONTROL															WIRING			NOTES
MECHANICAL LABEL	ELECTRICAL IDENTIFICATION NO.	DESCRIPTION	SUPPLIED BY: E - DIVISION 26 M - DIVISIONS 22,23,25 S - DIVISION 21 G - DIVISION 01 O - OWNER	VOLTAGE (V)	WATTAGE (kW)	HORSE POWER (hp)	MINIMUM CIRCUIT AMPACITY (A)	MOCP (A)	PHASE	MANUAL	MAGNETIC	COMBINATION	CONTACTOR	ADJUSTABLE FREQUENCY DRIVE	HAND-OFF-AUTO (HOA) SWITCH	START-STOP PUSHBUTTONS	PILOT LIGHT	LOCAL DISCONNECT	LOCAL FUSED DISCONNECT	SWITCH/CIRCUIT BREAKER SHUNT TRIP	RECEPTACLE	VARIABLE SPEED CONTROLLER	THERMOSTAT	120V REVERSE ACTING THERMOSTAT	PUSH BUTTON ELECTRONIC TIMER	BAS RELAY	MOTOR RELAY	TIME CLOCK	EMERGENCY STOP PUSHBUTTON	KEY SWITCH	PRESSURE SWITCH	LIMIT SWITCH	CONTROL PANEL	OCCUPANCY SENSOR	FLOAT SWITCH	STOP-START PUSHBUTTON	BAS CONNECTION	INTERLOCK WITH	CONTROL VOLTAGE (V)	CONTROL CABLING BY	POWER WIRING BY	SMOKE DAMPER(S)	
HVAC-18	1	ROOFTOP HVAC UNIT	M	600			27.6	40	3									M					M												M				*5
HVAC-19	2	ROOFTOP HVAC UNIT	M	600			40.2	60	3									M					M												M				
HVAC-20	3	ROOFTOP HVAC UNIT	M	600			40.2	60	3									M					M												M				
HVAC-21	4	ROOFTOP HVAC UNIT	M	600			15.3	20	3									M					M												M				
HVAC-22	5	ROOFTOP HVAC UNIT	M	600			15.3	20	3									M					M												M				
EF-19	6	CHANGE ROOM EXHAUST FAN	M	600		.3		15	3									M								E	E							M				
EF-20	7	WASHROOM EXHAUST FAN	M	208		.5		15	1									M								E	E							M				
EF-21	8	KITCHEN HOOD EXHAUST FAN	M	208		.75		15	1			E			E		E	M														M							
EF-22	9	CONDENSATE HOOD EXHAUST FAN	M	208		1		15	1			E			E		E	M																					*4
ERV-2	10	ENERGY RECOVERY VENTILATOR	M	600			4.0	15	3									M																	M				*5
ECO-1A, ECO-1B	11	ELECTRIC CONVECTION OVEN	O	208	10.4			40	3												E																	
ER-1	12	ELECTRIC RANGE	O	208	17.3			70	3												E																	
KH-1	13	KITCHEN HOOD	M	120			3.0	15	1																								M						*3
PPS	14	PLUMBING POWER SUPPLY	M	120	0.25			15	1												E																	
MPS	15	MECHANICAL POWER SUPPLY	M	120	0.25			15	1												E																	
EF-23	16	CUST/ELEC ROOM EXHAUST FAN	M	600		.3		15	3									M								E	E							M				*6

*NOTES:
1. COORDINATE EXACT ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH SHOP DRAWINGS AND ACTUAL NAMEPLATE DATA. REVISE ELECTRICAL REQUIREMENTS TO SUIT.
2. INTEGRAL OVERLOADS & CONTROLS.
3. PROVIDE SEPARATE ELECTRICAL FEED FOR INTEGRATED LIGHTING.
4. INTERLOCK WITH COMMERCIAL DISHWASHER & HVAC-21.
5. CONTROL WIRING FROM FIRE ALARM RELAY TO MECHANICAL EQUIPMENT BY MECHANICAL.
6. THERMOSTAT/SENSOR SHALL CONTROL THE FAN & MOTORIZED DAMPER. PROVIDE MOTORIZED DAMPER END SWITCH. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS.

LIGHTING FIXTURE SCHEDULE (*1)

TYPE	MANUFACTURER	MODEL	LAMPS QUANTITY-TYPE	MOUNTING T - T-BAR R - RECESSED S - SURFACE SD - SUSPENDED W - WALL	VOLTAGE	NOTES
DD	STANPRO	UCFL35-15W-A-5CWH (35K)	15W LED	S	120	PROTECTIVE SHIELD BY MILLWORK CONTRACTOR. PROVIDE HARD WIRE BOX & JUMPER CONNECTORS FOR A COMPLETE INSTALL.
EB	STANPRO	S2 12-24 7W LA WH	2-7W LED	W	24	
EBA	STANPRO	SWL EM WH TB AT	1-14W LED	T	120	
EBB	STANPRO	SWL EM WH RC AT KIT-BKT497	1-14W LED	R	120	
EBC	STANPRO	SLD 24 550 O WH AT	EB	W	120/24	LABEL AS 'SECOND FLOOR WASHROOMS' PROVIDE MOUNTING FRAME.
EBD	STANPRO	SWL EM WH AT	1-14W LED	S	120	
EXA	STANPRO	RMV 1 WM WH IB AT	1-2W LED	UNIVERSAL	120	REVISE PICTOGRAM TO SUIT DIRECTION INDICATED. MOUNTING HARDWARE TO SUIT APPLICATION.
EXB	STANPRO	RMV 1 CM WH IB AT	1-2W LED	UNIVERSAL	120	REVISE PICTOGRAM TO SUIT DIRECTION INDICATED. MOUNTING HARDWARE TO SUIT APPLICATION.
EXC	STANPRO	RMV 2 CM WH IB AT	1-2W LED	UNIVERSAL	120	REVISE PICTOGRAM TO SUIT DIRECTION INDICATED. MOUNTING HARDWARE TO SUIT APPLICATION.
EXE	STANPRO	RMSLC 2 144 1 WM 2 M 7LA WH AT	2WLED + 2-7WLED	W	120	REVISE PICTOGRAM TO SUIT DIRECTION INDICATED. MOUNTING HARDWARE TO SUIT APPLICATION.
GC	LITHONIA	2BLT4 60L ADSM EZ1 LP835	47W LED	R	120	
GD	LITHONIA	2BLT4 72L ADSM EZ1 LP835	60W LED	R	120	
HEG	LITHONIA	CSS L96 ALO4 MIN10 ZT SWW3 80CRI	58W LED, SET TO 8000LM, 35K	S/W/SD	120	REFER TO LIGHTING PLANS AND INSTALL AS INDICATED. COORDINATE MOUNTING HEIGHT TO CLEAR DUCTS, PIPING ETC. AND SUSPEND WITH CHAIN WHERE NECESSARY.
JA	LITHONIA	CPANL 1X4 ALO1 SWW7 M4	41W LED, SET TO 4400LM, 35K	R	120	
JAD	LITHONIA	CPANL 1X4 ALO1 SWW7 M4 DGA14	41W LED, SET TO 4400LM, 35K	R	120	
JB	LITHONIA	CPANL 2X2 ALO1 SWW7 M4	41W LED, SET TO 4400LM, 35K	R	120	
JC	LITHONIA	CPANL 2X4 ALO6 SWW7 M2	56W LED, SET TO 6000LM, 35K	R	120	
JD	LITHONIA	CPANL 2X4 ALO6 SWW7 M2	35W LED, SET TO 4000LM, 35K	R	120	
KB	LITHONIA	WL4 40L EZ1 LP835	40W LED	W	120	MOUNT BOTTOM OF FIXTURE AT APPROXIMATELY 2.1M AFF OR 150MM CENTERED ABOVE MIRROR/DOOR AS APPLICABLE
LA	STANPRO	VT4 L SB3 80 120 35K	33W LED	S	120	
LB	LITHONIA	FML4W 48 ALO6 SEF 835 MVOLT	49W LED, SET TO 4000LM	S	120	
XA	LITHONIA	LBR8 ALO3 SWW1 AR TRW LSS MWD UGZ1 WL	38W LED, SET TO 4000LM, 40K	R	120	INSTALL IN EXISTING SOFFIT, PROVIDE GOOF RING AS REQUIRED.

* NOTES:
1. REFER TO SPECIFICATIONS FOR DRIVER/LAMP REQUIREMENTS. LAMPS INCLUDED WITH FIXTURES UNLESS OTHERWISE OUTLINED.

LIGHTING CONTROL SCHEDULE (*1,2)

USE	TYPE	MANUFACTURER	MODEL	ENVIRONMENT	MOUNTING	VOLTAGE	PIR	MICRO-PHONICS	DAY LIGHTING	nLIGHT CONTROL	WIRELESS	COMMENTS
✓	OA	ACUITY	CM PDT 10	SWITCHING	CEILING	24	✓	✓		✓		EXTENDED RANGE
✓	OB	ACUITY	CM PDT 9	SWITCHING	CEILING	24	✓	✓		✓		STANDARD RANGE
✓	OD	ACUITY	nCM PDT 10 RJB	DIMMING	CEILING	24	✓	✓		✓		EXTENDED RANGE
✓	OE	ACUITY	nCM PDT 9 RJB	DIMMING	CEILING	24	✓	✓		✓		STANDARD RANGE
✓	$O	ACUITY	WSXA PDT	SWITCHING	WALL	120	✓	✓				PROGRAM FOR AUTO ON, AUTO OFF
✓	$V	ACUITY	WSXA PDT	SWITCHING	WALL	120	✓	✓				PROGRAM FOR MANUAL ON, AUTO OFF
✓	D	ACUITY	nPODMA DX	DIMMING	WALL	24				✓		ON/OFF & RAISE/LOWER

*NOTES
1. PROVIDE POWER/RELAY PACKS AS REQUIRED. PACKS NOT INDICATED ON THE DRAWINGS.
2. DIVISION 26 TO PROVIDE ALL LOW VOLTAGE CABLING.

ELECTRIC HEATER FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	WATTAGE	MOUNTING R - RECESSED S - SURFACE SD- SUSPENDED W- WALL	VOLTAGE	NOTES
A	COMAC	ONE SERIES C-10000000x	1450	W	120	*1

* NOTES:
1. BRUSHED STAINLESS STEEL FINISH.

LICENSED PROFESSIONAL ENGINEER
03.25.26
A. W. GUBBELS
PROVINCE OF ONTARIO

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02.13.26	ISSUED FOR COORDINATION	A.W.G.		
02.27.26	ISSUED FOR COORDINATION	A.W.G.		
03.16.26	ISSUED FOR COORDINATION	A.W.G.		
03.20.26	ISSUED FOR COORDINATION	A.W.G.		
03.25.26	ISSUED FOR BID	A.W.G.		

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

1206 Snyders Rd W, Baden, On N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Checked By: A.W.G.
Drawn By: A.W.T.
Project No.: 26012

ELECTRICAL LEGEND & SCHEDULES

E5.1

TO E5.3

SNYDER'S ROAD WEST
8.4kV & 27.6kV

TSE
27.6kV Δ 500 Y 600V-3Φ
If=ASSUMED INFINITE kA

If=14.37kA
BSE
ELECTRICAL RM. 402C
800A
EATON POW-R-LINE C

DFL 60 — MFL
MSE
CT'S PT'S
VOLTAGE SENSORS — TO SECURITY SYSTEM PANEL

01 INTEGRAL SURGE PROTECTION DEVICE — DSPD 30A-3P (SPD)
02 TXFMR A — DTA 250A-3P — TA 225 Δ Y 208V-3Φ
03 PANEL BB — DPBB 400A-3P — PBB (10) ELEC. 819A — If=11.8kA — TB 150 Δ Y 208V-3Φ
04 SPARE PANEL DD — 250A-3P (7) — 4-#250KCM T90 Cu IN 75 EMT (5) — If<14.0kA PDD (6) CUST./ ELEC 559 — 3-#3 T90 Cu IN 35 EMT/FLEX (5) — (6) TD 75 Y — 3-#300KCM+N T90 Cu + IN 78 FLEX/EMT 208V-3Φ (5) — If<10.0kA PD (6) CUST./ ELEC 559 — 3-#3+N T90 Cu + IN 41 EMT (5) — PF (6) STORAGE 504A
05 SPARE — 250A-3P
06 PANEL MA — 200A-3P — PMA FAN ROOM 120A 250 — TMB 75 Y — 821N — PMB FAN ROOM 120A 225 — PB
07 PANEL TWA — 200A-3P — PTWA ELECTRICAL 511F — PTB — TTWB 75 Y 208V-3Φ — PTWB ELECTRICAL 511F
08 SPARE — 100A-3P
09 SPARE — 100A-3P
800

If=13.15kA
BA
ELECTRICAL RM. 402C

01 KITCHEN PANEL KP — (7) DKP 300A-3P — (9) — If<10.0kA (1) PP-6 KITCHEN 317 — (6) PKP KITCHEN 317 400
02 PANEL LPC — DLPC 200A-3P — LPC CORR. 811 — LP-B2 GYM 403
03 BOILER ROOM POWER PANEL — DBRPP 400A-3P
04 PANEL LP-L1 SPARE — (7) 200A-3P — (3)
05 BOILER ROOM MCC — DMCC 800A-3P
06 TECH. WING SPLITTER — DTWS 800A-3P — PULL BOX — TAPBOX — STW — DP509 100 100 — P509 TECH. WING CLOSET
07 PANEL LP-WW — DLPWW 100A-3P — LP-WW GYM 402
08 PANEL LP-W — DLPW 100A-3P — LP-W CORR. 809L — DPP-1 400 400 — DDC 100 80 — DUST COLLECTOR
800
09 TRANSFER SWITCH ATSE — DATSE 100A-3P — If<10.0kA ATSE 100A MAIN ELEC. — PE NETWORK ROOM — If<10.0kA — SPD NETWORK ROOM
10 FIRE ALARM CONTROL PANEL — DFACP 15A-1P — NATURAL GAS GENSET (20kW)
11 EXIT LIGHTING — DEXIT 15A-3P
12 PANEL 1A — DP1A 150A-3P — P1A MAIN ELEC. RM.
13 SPARE — 200A-3P — 400A SPLITTER 400 — MECH. ROOM SPLITTER
14 SPARE — 200A-3P
15 SPARE — 100A-3P
16 SPARE — 100A-3P
1200

MCC BOILER ROOM 300
PP-5 — 400A-3P — PP-5 FAM. STUD. 103 400 — 53 EMT — 801N
100 WING UPSTAIRS & DOWNSTAIRS — 125A-3P — LPG CUST LUNCHRM. 225 — LPJ 2nd FL. CUST. ROOM 225
100 WING UP-DOWN STAIRS — 125A-3P — LPH STAIR 801 (1st) 225 — LP-K STAIR 801 (2nd) 225
FAN ROOM 'A' — 100A-3P — FAN ROOM 120A SPLITTER
BOILER #4 — 40A-3P — BOILER #4
??? ??? — 70A-3P
DSA 400 400
800

LP-L1 CORR. 822 — 225
(10) P530 CLASSRM. 530 — (3) — (1) P527 CLASSRM. 527
(1) P522 CLASSRM. 522 — (3) — (1) P524 CLASSRM. 524
(1) P526 CLASSRM. 526 — (3) — (1) P528 CLASSRM. 528
(1) P523 CLASSRM. 523 — (3) — (1) P525 CLASSRM. 525
(1) P521 CLASSRM. 521
(1) LP-KK CORR. 822 100
SFR — (2)

SA
DHVAC-16 200 3x125 — HVAC-16
DPSA 60 3x60 — PSA PREP RM. 124A 125
DCP 60 3x60 — PCP BOILER ROOM 100
DELEV-B 200 200 — ELEVATOR 'B'
400

PP-1
70A-2P — P513 CLASSRM. 513 — ROOM 514
TECH. WING CLOSET
100A-2P — P510 FITNESS 510 — P512 TECH. 512
100A-2P — P509 T.W. 509 — P511 CUST. 511
30A-3P — AIR COMPRESSOR
70A-3P — DC PANEL ROOM 504
100A-3P — PP-6 FITNESS 510 125
100A-3P — LP-SD STOR. ROOM 100
100A-3P — LP-LL CORR @ BF WR 100 — PUSR 2nd FL. STAFF ROOM 225
100A-3P — LP-00 CONSTR 515 — LP-001 STOR. ROOM 100
100A-3P — PCLASS COMP. ENG. 516 225 — CDESK — PDESK COMP. ENG. 516 225
100A-3P — PP-5 TECH. 512
125A-3P — LPD 1st FL. STAIR 225 — LPE 2nd FL. STAIR 225 — P-KILN 2nd FL. KILN RM. 60
200A-3P — PP-4 MEDIA 513 225
15A-1P — ROOM 513 FANS
600

BB
ELEC. 819A

01 MECH. ROOM SPLITTER — DMRS 150A-3P — MECH. ROOM SPLITTER
02 PANEL 1B — DP1B 150A-3P — P1B KITCHEN ELEC. RM. — If<10.0kA
03 AIR CONDENSERS — DAC 225A-3P — AIR CONDENSERS ROOF UNITS
04 PANEL LP-B1 — DLP-B1 125A-3P — LP-B1 STAIR 906
05 PANEL PP-D1 — DPP-D1 200A-3P — PP-D1 KITCHEN 317 — LP-D2 KITCHEN 100
06 PANEL STAGE — DPSTAGE 150A-3P — STAGE STAGE MEZZANINE
07 PANEL PP-2 — DPP-2 400A-3P — PP-2 100A-3P — P-G1(L) TRANS. 518 100 — P-G1(R) TRANS. 518 100
08 SPARE — 300A-3P — TECH. WING NORTH STAIR 150A-3P — SELEV
09 SPARE — 200A-3P — 225A-3P — PP-F1(L) MANUF. 517 225 — PP-F1(R) MANUF. 517 225
10 SPARE — 100A-3P — 225A-3P — LP-A4 TECH. N STAIR 225
400A-3P — P-KILN RM. 2nd FL. KILN RM. 400
800
250A-3P — PWLD MANUF. 517
600

SINGLE LINE NOTES:

1. DELETE EXISTING PANEL.
2. DELETE EXISTING DISTRIBUTION EQUIPMENT.
3. DELETE EXISTING FEEDER (CONDUCTORS & CONDUIT).
4. RESERVED
5. PROVIDE NEW FEEDER (CONDUCTORS & CONDUIT).
6. PROVIDE NEW DISTRIBUTION EQUIPMENT.
7. PROVIDE UPDATED LAMACOID LABEL.
8. DELETE EXISTING PANEL AND REPLACE WITH NEW. REFER TO PANEL SCHEDULE.
9. REWORK FEEDER (CONDUCTORS AND CONDUIT).
10. REFER TO PANEL SCHEDULE FOR MODIFICATIONS.

DESIGNATIONS:
UNLESS OTHERWISE NOTED FEEDERS (CONDUIT + CONDUCTORS) ARE EXISTING.

GROUNDING & BONDING:
PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY REQUIREMENTS.

INFORMATION UPDATE:
PROVIDE A LAMINATED, HARDCOPY OF THE COMPLETE BUILDING SINGLE LINE DIAGRAM & POST ON SITE. ELECTRONIC BASE PLANS WILL BE PROVIDED BY THE CONSULTANT.

OVERSIZED NEUTRALS:
WHERE INDICATED, NEUTRAL CONDUCTORS SHALL BE A MINIMUM OF TWO GAUGES LARGER THAN THE RESPECTIVE PHASE CONDUCTOR, i.e., 3-#3/0 PHASE CONDUCTORS SHALL BE PROVIDED WITH 1-#250 NEUTRAL.

If=AVAILABLE FAULT CURRENT
NOTE #
LABEL:
Bx=SWITCHBOARD 'x'
Dx=DISCONNECT 'x'
Mx=METER 'x'
Px=PANEL 'x'
Sx=SPLITTER 'x'
SPD=SURGE PROTECTION DEVICE
Tx=TRANSFORMER 'x'
XXX
XXX XX
EXISTING FEEDER
EQUIPMENT RATING
NEW FEEDER
OVERCURRENT RATING

SLD LEGEND

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03.27.26	ISSUED FOR BID	A.W.G.

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

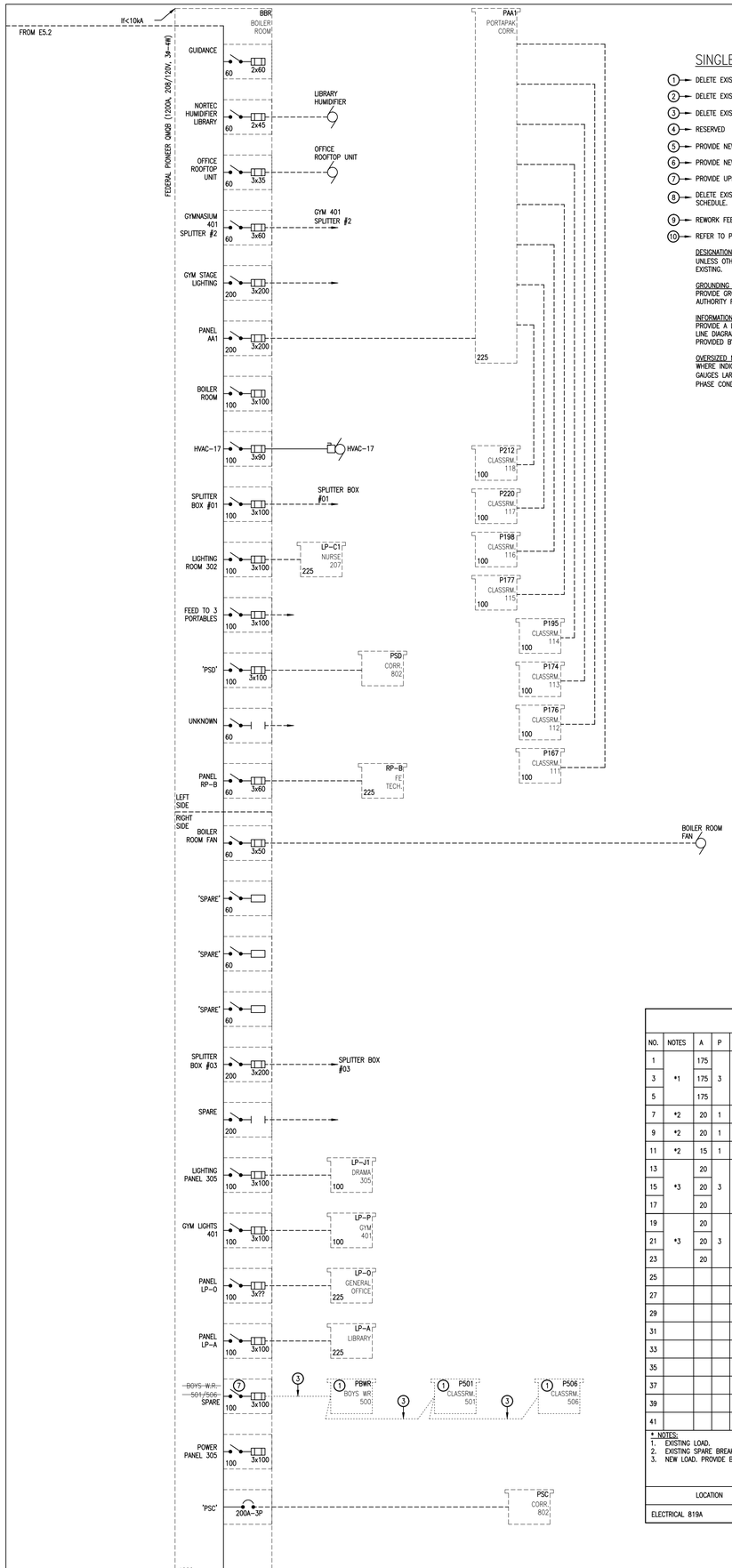
1206 Snyders Rd W, Baden, On N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Checked By: A.W.G.
Drawn By: A.W.T.
Project No.: 26012

PARTIAL SINGLE LINE DIAGRAM

E5.2



SINGLE LINE NOTES:

1. DELETE EXISTING PANEL.
2. DELETE EXISTING DISTRIBUTION EQUIPMENT.
3. DELETE EXISTING FEEDER (CONDUCTORS & CONDUIT).
4. RESERVED
5. PROVIDE NEW FEEDER (CONDUCTORS & CONDUIT).
6. PROVIDE NEW DISTRIBUTION EQUIPMENT.
7. PROVIDE UPDATED LAMACOID LABEL.
8. DELETE EXISTING PANEL AND REPLACE WITH NEW. REFER TO PANEL SCHEDULE.
9. REWORK FEEDER (CONDUCTORS AND CONDUIT).
10. REFER TO PANEL SCHEDULE FOR MODIFICATIONS.

DESIGNATIONS:
UNLESS OTHERWISE NOTED FEEDERS (CONDUIT + CONDUCTORS) ARE EXISTING.

GROUNDING & BONDING:
PROVIDE GROUNDING & BONDING IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY REQUIREMENTS.

INFORMATION UPDATE:
PROVIDE A LAMINATED, HARDCOPY OF THE COMPLETE BUILDING SINGLE LINE DIAGRAM & POST ON SITE. ELECTRONIC BASE PLANS WILL BE PROVIDED BY THE CONSULTANT.

OVERSIZED NEUTRALS:
WHERE INDICATED, NEUTRAL CONDUCTORS SHALL BE A MINIMUM OF TWO GAUGES LARGER THAN THE RESPECTIVE PHASE CONDUCTOR, i.e., 3-#3/0 PHASE CONDUCTORS SHALL BE PROVIDED WITH 1-#250 NEUTRAL.

NEW PANEL 'DD'

NO.	WATTS	A	P	LOAD DESCRIPTION		ø	LOAD DESCRIPTION		P	A	WATTS	NO.
1		40				A				90		2
3	24271	40	3	ROOFTOP UNIT HVAC-18	*1	B	TRANSFORMER 'TD'	*1	3	90	46300	4
5		40				C				90		6
7		60				A						8
9	34915	60	3	ROOFTOP UNIT HVAC-19	*1	B						10
11		60				C						12
13		60				A						14
15	34915	60	3	ROOFTOP UNIT HVAC-20	*1	B						16
17		60				C						18
19		15				A						20
21	1400	15	3	EXHAUST FAN EF-19	*1	B						22
23		15				C						24
25		15				A						26
27	1900	15	3	ENERGY RECOVERY VENTILAT OR ERV-2	*1	B						28
29		15				C						30
31		15				A						32
33	1400	15	3	EXHAUST FAN EF-23	*1	B						34
35		15				C						36
37						A						38
39						B						40
41												42
43												44
45												46
47												48
49										15		50
51							SPARE		3	15	*2	52
53										15		54
55										20		56
57							SPARE		3	20	*2	58
59										20		60

*NOTES:
1. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
2. PROVIDE BREAKER. TURN TO THE 'OFF' POSITION.
3.
4.

OPTIONS:
A LOCKABLE DOOR
B BOTTOM FEEDER
C
D

LOAD (W)	LOCATION	MAINS (A)	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BRKR (A)
145101	CUST/ELEC 559	400	600/347	3/4	EATON PRL3x	SURFACE	N/A

EXISTING PANEL '530' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	ø	LOAD DESCRIPTION	P	A	NOTES	NO.
1	*1	15	1		A		1	15	*2	2
3	*1	15	1		B		1	15	*2	4
5	*1	15	1		C		1	15	*1	6
7	*1	15	1		A		1	15	*1	8
9	*1	15	1		B		1	15	*1	10
11	*1	15	1		C		1	15	*1	12
13	*1	15	1		A		1	20	*1	14
15	*1	15	1		B		1	15	*1	16
17	*1	15	1		C		1	15	*1	18
19	*1	15	1		A	LIGHTING 525,527	1	20	*8	20
21	*1	15	1		B	LIGHTING 526,528	1	20	*8	22
23	*3	15	1	RECEPTACLES 525	C	RECEPTACLES 525	1	15	*8	24
25	*3	15	1	RECEPTACLES 525	A	RECEPTACLES 527	1	15	*8	26
27	*3	15	1	RECEPTACLES 525	B	RECEPTACLES 526	1	15	*8	28
29	*3	15	1	RECEPTACLES 525	C	RECEPTACLES 528	1	15	*8	30
31	*3	15	1	RECEPTACLES 525	A					32
33	*3	15	1	RECEPTACLES 525	B					34
35	*3	15	1	RECEPTACLES 525	C					36
37	*3	15	1	RECEPTACLES 525	A					38
39	*3	15	1	RECEPTACLES 525	B					40
41	*3	15	1	RECEPTACLES 525	C					42
43	*4	15	1	RECEPTACLES 526	A					44
45	*4	15	1	RECEPTACLES 526	B					46
47	*4	15	1	RECEPTACLES 526	C					48
49	*4	15	1	RECEPTACLES 526	A					50
51	*5	15	1	RECEPTACLES 527	B					52
53	*5	15	1	RECEPTACLES 527	C					54
55	*5	15	1	RECEPTACLES 527	A					56
57	*5	15	1	RECEPTACLES 527	B					58
59	*6	15	1	RECEPTACLES 528	C					60
61	*6	15	1	RECEPTACLES 528	A	SPARE	1	15	*2	62
63	*6	15	1	RECEPTACLES 528	B	SPARE	1	15	*2	64
65					C	SPARE	1	15	*2	66
67					A	SPARE	1	20	*2	68
69	*7	60	2	PANEL 'P527' SPARE	B	SPARE	1	20	*2	70
71		60			C	SPARE	1	20	*2	72

* NOTES:
1. EXISTING LOAD.
2. EXISTING SPARE BREAKER SHALL REMAIN.
3. EXISTING LOAD FROM DELETED 'P525', PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
4. EXISTING LOAD FROM DELETED 'P526', PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
5. EXISTING LOAD FROM DELETED 'P527', PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
6. EXISTING LOAD FROM DELETED 'P528', PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
7. DELETE EXISTING BRANCH WIRING. BREAKER SHALL BE TURNED TO THE 'OFF' POSITION AND MARKED SPARE.
8. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.

LOCATION	MAINS	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BREAKER
FAMILY STUDIES 530	225A	120/208	3/4	[D]NQ	SURFACE	N/A

EXISTING PANEL 'BB' SCHEDULE

NO.	NOTES	A	P	LOAD DESCRIPTION	ø	LOAD DESCRIPTION	P	A	NOTES	NO.
1		175			A					2
3	*1	175	3		B					4
5		175			C					6
7	*2	20	1		A		1	20	*2	8
9	*2	20	1		B		1	15	*2	10
11	*2	15	1		C		1	15	*2	12
13		20			A					14
15	*3	20	3	ROOFTOP UNIT HVAC-21	B					16
17		20			C					18
19		20			A					20
21	*3	20	3	ROOFTOP UNIT HVAC-22	B					22
23		20			C					24
25					A					26
27					B					28
29					C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

* NOTES:
1. EXISTING LOAD.
2. EXISTING SPARE BREAKER SHALL REMAIN.
3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.

LOCATION	MAINS	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BREAKER
ELECTRICAL 819A	400A	600/347	3/4	EATON PRL3A	SURFACE	N/A

NEW PANEL 'D'

NO.	WATTS	A	P	LOAD DESCRIPTION		ø	LOAD DESCRIPTION		P	A	WATTS	NO.
1	300	15	1		*1,2	A	LIGHTS 823	*6	1	20	900	2
3	300	15	1		*1,2	B	LIGHTS 522, 524	*6	1	20	900	4
5	300	15	1		*1,2	C	LIGHTS 521, 521A, 523	*6	1	20	1400	6
7	300	15	1		*1,2	A	RECEPT. ROOFTOP MAINTENANCE	*6	1	20	300	8
9	300	15	1		*1,2	B	RECEPT. 521A	*6	1	15	300	10
11	300	15	1		*1,2	C	RECEPT. 521A	*6	1	15	300	12
13	300	15	1		*1,2	A	HAND DYER 520A	*6	1	20	1450	14
15	300	15	1		*1,2	B	HAND DYER 520B	*6	1	20	1450	16
17	300	15	1		*1,2	C	HAND DYER 520C	*6	1	20	1450	18
19	300	15	1		*1,2	A	HAND DYER 520D	*6	1	20	1450	20
21	300	15	1		*1,2	B	HAND DYER 520E	*6	1	20	1450	22
23	300	15	1		*1,2	C	HAND DYER 520F	*6	1	20	1450	24
25	300	15	1		*1,2	A	HAND DYER 520G	*6	1	20	1450	26
27	300	15	1		*1,2	B	HAND DYER 520H	*6	1	20	1450	28
29	300	15	1		*1,3	C	RECEPT. 520D,520E	*6	1	15	200	30
31	300	15	1		*1,3	A	SPARE	*7	1	15		32
33	300	15	1		*1,3	B	SPARE	*7	1	15		34
35	300	15	1		*1,4	C	SPARE	*7	1	15		36
37	300	15	1		*1,4	A	RECEPT. 559	*6	1	15	300	38
39	300	15	1		*1,4	B	RECEPT. 560	*6	1	15	300	40
41	300	15	1		*1,4	C	RECEPT. 560	*6	1	15	300	42
43	300	15	1		*1,4	A	RECEPT. 561	*6	1	15	300	44
45	300	15	1		*1,4	B	RECEPT. 521	*6	1	15	400	46
47	300	15	1		*1,4	C	RECEPT. 523	*6	1	15	400	48
49	300	15	1		*1,4	A	PLUMBING POWER SUPPLIES	*6	1	15	250	50
51	300	15	1		*1,4	B	MECHANICAL POWER SUPPLIES	*6	1	15	750	52
53	300	15	1		*1,4	C	RECEPT. 522	*6	1	15	300	54
55	300	15	1		*1,5	A	RECEPT. 524	*6	1	15	200	56
57	300	15	1		*1,5	B	RECEPT. PRINTER 521A	*6	1	20	100	58
59	300	15	1		*1,5	C	SPARE	*7	1	15		60
61	300	15	1		*1,5	A	FUTURE POWER DOOR OPERATORS	*6,7	1	15	900	62
63		20	1	SPARE	*7	B	SMOKE DAMPERS	*6,8	1	15	200	64
65		20	1	SPARE	*7	C	RECEPTACLE CORRIDOR 823	*6	1	20	100	66
67		20	1	SPARE	*7	A	LIGHTS 559, 560, 561, 520x	*6	1	20	700	68
69						B						70
71						C						72
73						A						74
75						B						76
77						C						78
79		100				A						80
81	15600	100	3	PANEL 'F'	*6	B						82
83		100				C						84

*NOTES:
1. ESTIMATED LOAD
2. EXISTING LOAD FROM 'P521'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
3. EXISTING LOAD FROM 'P522'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
4. EXISTING LOAD FROM 'P523'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
5. EXISTING LOAD FROM 'P524'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
6. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
7. PROVIDE BREAKER. TURN TO THE 'OFF' POSITION.
8. BREAKER SHALL BE RED AND LOCKABLE.

OPTIONS:
A LOCKABLE DOOR
B 200% NEUTRAL
C TOP FEED

LOAD (W)	LOCATION	MAINS (A)	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BRKR (A)
46300	CUST/ELEC 559	400	208/120	3/4	EATON PRL3x	SURFACE	N/A

NEW PANEL 'KP'

NO.	WATTS	A	P	LOAD DESCRIPTION		ø	LOAD DESCRIPTION		P	A	WATTS	NO.
1	800	15	1	EXHAUST FAN EF-21	*3	A	RECEPT. ROOFTOP MAINTENANCE	*3	1	20	100	2
3		15				B	SMOKE DAMPERS	*3,5	1	15	200	4
5	1000	15	1	EXHAUST FAN EF-22	*3	C	MECHANICAL POWER SUPPLY	*3	1	15	250	6
7		15				A						8
9		40				B						10
11	10400	40	3	ELECTRIC CONVECTION OVEN (LOWER DECK)	*3	C						12
13		40				A						14
15		40				B						16
17	10400	40	3	ELECTRIC CONVECTION OVEN (UPPER DECK)	*3	C						18
19		40				A						20
21		70				B						22
23	17300	70	3	ELECTRIC RANGE	*3	C						24
25		70				A						26
27	400	15	1	KITCHEN HOOD	*3	B						28
29	500	15	1	FOOD MERCHANDISER LIGHTS	*3	C						30
31	700	15	1	DOUBLE FRIDGE	*3	A	SPARE	*4	1	15		32
33	200	15	1	KITCHEN HOOD LIGHTS	*3	B	SPARE	*4	1	15		34
35		20				C	SPARE	*4	1	15		36
37	2900	20	3	FOOD MERCHANDISER LIGHTS	*3	A	SPARE	*4	1	15		38
39		20				B	SPARE	*4	1	15		40
41						C	SPARE	*4	1	15		42

*NOTES:
1. ESTIMATED LOAD
2. EXISTING LOAD FROM 'PP-8'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRING.
3. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
4. PROVIDE BREAKER. TURN TO THE 'OFF' POSITION.
5. BREAKER SHALL BE RED AND LOCKABLE.
6.
7.

OPTIONS:
A LOCKABLE DOOR

LOAD (W)	LOCATION	MAINS (A)	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BRKR (A)
45150	KIT CHEN 317	400	208/120	3/4	EATON PRL1x	FLUSH	N/A

NEW PANEL 'F'

NO.	WATTS	A	P	LOAD DESCRIPTION		ø	LOAD DESCRIPTION		P	A	WATTS	NO.
1	300	15	1		*1,2	A	LIGHTS 502,504,504A,504B	*10	1	20	1200	2
3	300	?	1		*1,3	B	LIGHTS 501,503,505	*10	1	20	1400	4
5	300	15	1		*1,3	C	LIGHTS 506,507	*10	1	20	900	6
7	300	15	1		*1,4	A	LIGHTS 500,500A,810	*10	1	20	1100	8
9	300	?	1		*1,5	B	RECEPT. 504,506	*10	1	15	300	10
11	300	?	1		*1,5	C	RECEPT. 501	*10	1	15	300	12
13	300	?	1		*1,5	A	RECEPT. 503	*10	1	15	300	14
15	300	?	1		*1,5	B	RECEPT. 505	*10	1	15	300	16
17	300	15	1		*1,6	C	RECEPT. 507	*10	1	15	300	18
19	300	15	1		*1,6	A	MECHANICAL POWER SUPPLIES	*10	1	15	250	20
21	300	15	1		*1,6	B						22
23	300	15	1		*1,6	C						24
25	300	15	1		*1,6	A						26
27	300	15	1		*1,7	B						28
29	300	15	1		*1,7	C						30
31	300	15	1		*1,7	A						32
33	300	15	1		*1,8	B						34
35	300	15	1		*1,8	C						36
37	300	15	1		*1,8	A						38
39	300	15	1		*1,9	B						40
41	300	15	1		*1,9	C						42
43	300	15	1		*1,9	A						44
45	300	15	1		*1,9	B						46
47	300	15	1		*1,9	C						48
49	300	15	1		*1,9	A	SPARE	*11	1	15		50
51	750	20	1		*1,9	B	SPARE	*11	1	15		52
53	1000	30	1		*1,9	C	SPARE	*11	1	15		54
55						A	SPARE	*11	1	20		56
57						B	SPARE	*11	1	20		58
59						C	SPARE	*11	1	20		60

*NOTES:
1. ESTIMATED LOAD
2. EXISTING LOAD FROM 'P501'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
3. EXISTING LOAD FROM 'P503'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
4. EXISTING LOAD FROM 'P505'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
5. EXISTING LOAD FROM 'P507'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
6. EXISTING LOAD FROM 'LP-T1'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
7. EXISTING LOAD FROM 'PP-502'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
8. EXISTING LOAD FROM 'PP-SAC'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
9. EXISTING LOAD FROM 'PBWR'. PROVIDE BREAKER, EXTEND AND RECONNECT BRANCH WIRE.
10. NEW LOAD. PROVIDE BREAKER & BRANCH WIRING.
11. PROVIDE BREAKER. TURN TO THE 'OFF' POSITION.

OPTIONS:
A LOCKABLE DOOR
B 200% NEUTRAL

LOAD (W)	LOCATION	MAINS (A)	VOLTAGE	ø/WIRE	TYPE	MOUNTING	MAIN BRKR (A)
15600	ST ORAGE 504A	225	208/120	3/4	EATON PRL1x	SURFACE	N/A

LICENSED PROFESSIONAL ENGINEER
03.25.26
A. W. GUBBELS
PROVINCE OF ONTARIO

MNE Engineering Inc.
22 Kenview Blvd, Suite B
Kitchener, Ontario N2C 2S5
(519) 894-9408
www.mneengineering.co
MNE ENGINEERING

NO.	DATE	DESCRIPTION	BY
1	02.13.26	ISSUED FOR COORDINATION	A.W.G.
2	02.27.26	ISSUED FOR COORDINATION	A.W.G.
3	03.16.26	ISSUED FOR COORDINATION	A.W.G.
4	03.20.26	ISSUED FOR COORDINATION	A.W.G.
5	03.27.26	ISSUED FOR TENDER	A.W.G.

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

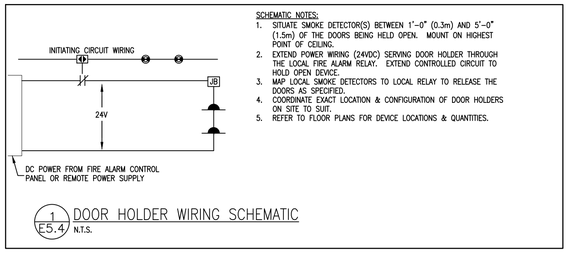
1206 Snyder's Rd W, Baden, On N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

Checked By: A.W.G.
Drawn By: A.W.T.
Project No.: 26012

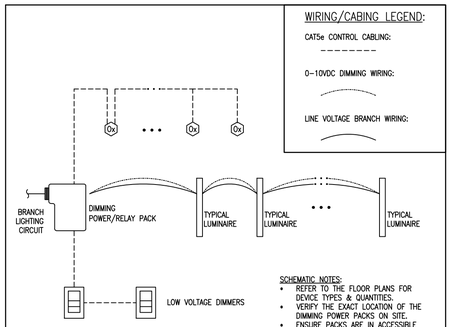
PARTIAL SINGLE LINE DIAGRAM & PANEL SCHEDULES

E5.3



SCHEMATIC NOTES:
1. SITUATE SMOKE DETECTOR(S) BETWEEN 1'-0" (0.3m) AND 5'-0" (1.5m) OF THE DOORS BEING HELD OPEN. MOUNT ON HIGHEST POINT OF CEILING.
2. EXTEND POWER WIRING (24VDC) SERVING DOOR HOLDER THROUGH THE LOCAL FIRE ALARM RELAY. EXTEND CONTROLLED CIRCUIT TO HOLD OPEN DEVICE.
3. MAP LOCAL SMOKE DETECTORS TO LOCAL RELAY TO RELEASE THE DOORS AS SPECIFIED.
4. COORDINATE EXACT LOCATION & CONFIGURATION OF DOOR HOLDERS ON SITE TO SUIT.
5. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS & QUANTITIES.

1 / E5.4 DOOR HOLDER WIRING SCHEMATIC
N.T.S.

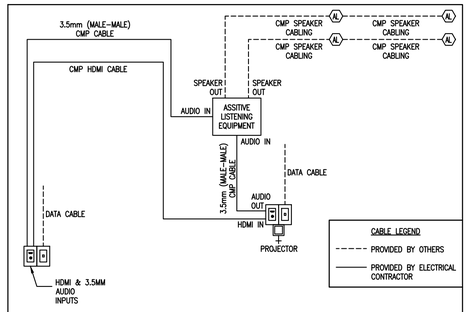


SCHEMATIC NOTES:
- REFER TO THE FLOOR PLANS FOR DEVICE TYPES & QUANTITIES.
- VERIFY THE EXACT LOCATION OF THE DIMMING POWER PACKS ON SITE.
- ENSURE PACKS ARE IN ACCESSIBLE LOCATIONS.
- INDICATE FINAL POSITIONS ON THE AS-BUILT DRAWINGS.

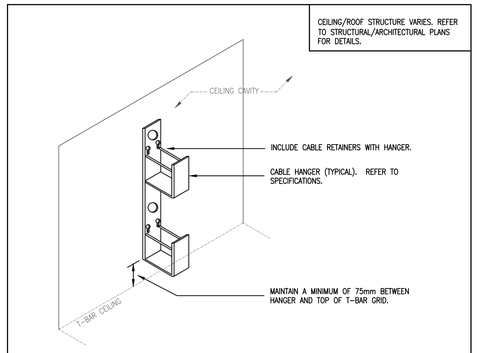
2 / E5.4 CABLED LIGHTING CONTROL SCHEMATIC
N.T.S.

SCHEMATIC NOTES:
- 120V SMOKE DAMPERS PROVIDED BY DIVISION 23, POWER OPEN, SPRING CLOSED.
- PROVIDE SMOKE DETECTORS WITHIN 5'-0" (1.5m) ON BOTH SIDES OF THE RATED SEPARATION, OR PROVIDE A DUCT-TYPE SMOKE DETECTOR DOWNSTREAM OF THE DAMPER IN ACCORDANCE WITH OBC 3.1.8.11.
- PROVIDE A FIRE ALARM RELAY MODULE TO ACTIVATE A POWER RELAY. EXTEND POWER WIRING TO SMOKE DAMPERS.
- PROGRAM THE FIRE ALARM RELAY MODULE TO CLOSE ALL SMOKE DAMPERS ASSOCIATED WITH THE AIR HANDLER/120V CIRCUIT UPON A SIGNAL FROM THE ASSOCIATED SMOKE DETECTORS.
- PROVIDE FIRE ALARM RELAY AT THE ASSOCIATED AIR HANDLING UNIT SO THAT THE EQUIPMENT IS SHUT DOWN UPON ACTIVATION OF ANY OF THE SMOKE DETECTORS ASSOCIATED WITH THAT UNIT.
- PROVIDE ACCESS DOORS AS REQUIRED FOR INSPECTION AND RESET.
- ASSOCIATED SMOKE DETECTORS SHALL BE MAPPED TO THE LOCAL FLOOR INITIATING ZONE AND THE ASSOCIATED AIR HANDLING INITIATING ZONE (WHERE APPLICABLE).
- REFER TO FLOOR PLANS FOR DEVICE LOCATIONS & QUANTITIES.

3 / E5.4 SMOKE DAMPER WIRING SCHEMATIC
N.T.S.

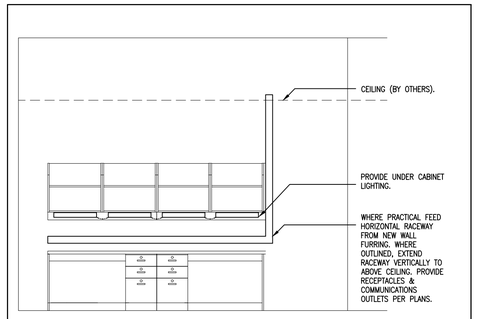


5 / E5.4 CLASSROOM AUDIO/VIDEO CABLING SCHEMATIC
N.T.S.

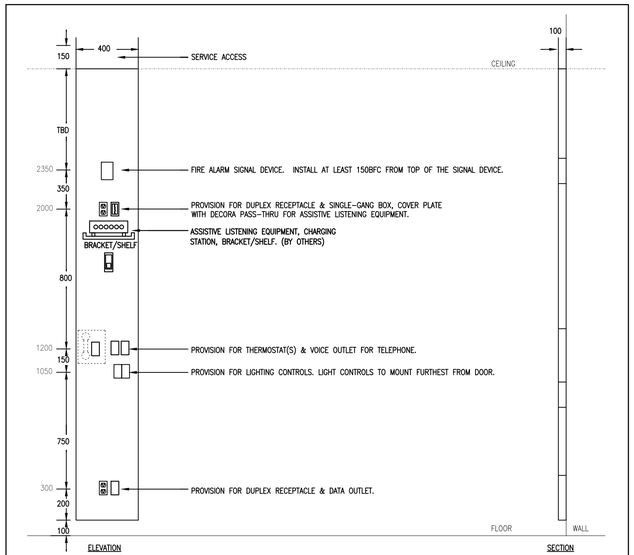


DETAIL NOTES:
1. HANGERS SHALL BE WALL MOUNTED WHEREVER POSSIBLE.
2. WHERE WALL MOUNT IS NOT POSSIBLE, UNITS SHALL BE SUSPENDED FROM THE STRUCTURE WITH THREADED ROD.
3. CORRIDOR MOUNTED HANGERS ARE TO BE MOUNTED IN-LINE. MAXIMUM SPACING BETWEEN HANGERS TO BE 1.0m (40").
4. COORDINATE WITH MECHANICAL TRADES TO AVOID CONFLICTS.
5. INSTALLATION OF POWER WIRING IN HANGERS SHALL NOT BE PERMITTED.
6. PROVIDE TWO TIERS WITH ONLY COMPUTER (DATA) CABLING IN THE TOP TIER. ALL REMAINING COMMUNICATIONS CABLES ARE TO GO INTO LOWER TIER.

A / E5.4 CABLE HANGER DETAIL
N.T.S.

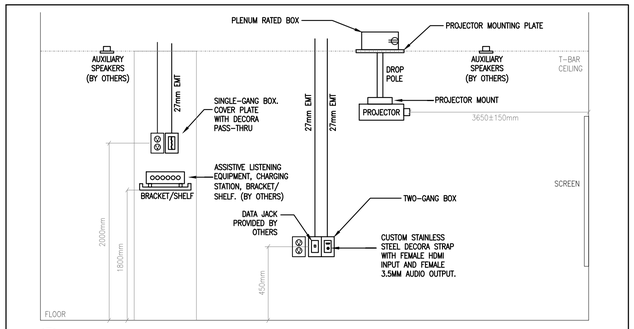


B / E5.4 TYPICAL WORK STATION DETAIL
N.T.S.



DETAIL NOTES:
1. MILLWORK CONSOLES SHALL BE SUPPLIED & INSTALLED BY OTHERS.
2. PROVIDE OUTLET BOXES FOR ALL WIRING DEVICES.
3. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ALL WIRING DEVICES AND THE FIRE ALARM SIGNALING DEVICE AS INDICATED ON THE FLOOR PLANS.
4. COORDINATE EXACT CONSOLE LOCATION WITH ARCHITECTURAL DETAILS.
5. ALL INDICATED DIMENSIONS ARE METRIC.

C / E5.4 CLASSROOM CONSOLE DETAIL
N.T.S.



D / E5.4 CLASSROOM AUDIO/VIDEO ROUGH-IN DETAIL
N.T.S.

LICENSED PROFESSIONAL ENGINEER
03.25.26
A. W. GUBBELS
PROVINCE OF ONTARIO

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02.13.26	ISSUED FOR COORDINATION	A.W.G.
02.27.26	ISSUED FOR COORDINATION	A.W.G.
03.16.26	ISSUED FOR COORDINATION	A.W.G.
03.20.26	ISSUED FOR COORDINATION	A.W.G.
03.27.26	ISSUED FOR BID	A.W.G.

WATERLOO REGION DISTRICT SCHOOL BOARD

Waterloo Oxford District Secondary School

1206 Snyder's Rd W, Baden, On N3A 1A4

WINDOW REPLACEMENTS, INTERIOR ALTERATIONS AND HVAC UPGRADES

ELECTRICAL DETAILS & SCHEMATICS

Project No.:	Drawn By:	Checked By:
26012	A.W.T.	A.W.G.

E5.4