

# WATERLOO REGION DISTRICT SCHOOL BOARD WRDSB EDSS SPECIAL ED. RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2

WRDSB Project No.: 24-7517-RFT WalterFedy Project No.: 2022-0277-13 2024-03-01 ISSUED FOR BID AND PERMIT

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# **DRAWING LIST**

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- E203 ROOF DEMOLITION PLAN E301 LIGHTING RENOVATION PLANS
- E302 POWER & SYSTEM RENOVATION PLANS
- E303 POWER & SYSTEM RENOVATION PLANS
- E401 DISTRIBUTION RISER DIAGRAM E402 PANEL SCHEDULES
- E501 PARTIAL FIRE ALARM RISER



		OBC Referenc			
11.1	Existing Building Classification	Describe Existing Use: GROUP A D Construction Index: - Hazard Index: - Not Applicable (no change of major	11.2.1. T11.2.1.1A T11.2.1.1B-N		
11.2	Alteration to Existing Building is	Basic Renovation			
11.3	Reduction in Performance Level	Structural By Increase in Occupant Load By Change of Major Occupancy Plumbing Sewage-System	No No No No No	<ul> <li>☐ Yes</li> <li>☐ Yes</li> <li>☐ Yes</li> <li>☐ Yes</li> <li>☐ Yes</li> <li>☐ Yes</li> </ul>	11.4.2. 11.4.2.15
11.4 Compens	Compensating Construction	Structural - Increase in Occupant Load -	■ No	Yes (explain) Yes (explain)	11.4.3. 11.4.3.2. 11.4.3.3.
		Change of Major Occupancy -	■ No	Yes (explain)	11.4.3.4.
		Plumbing -	■ No	☐ Yes (explain)	11.4.3.5.
		Sewage System	No	☐ Yes (explain)	11.4.3.6.
11.5	Compliance Alternatives Proposed	■ No □ Yes (give number(s))			11.5.1.
11.6	Alternative Measures Proposed	■ No Yes (give number(s))			11.5.2.

1. MAJOR OCCUPANCY: GROUP A2 TO REMAIN (SECONDARY SCHOOL)

2. FLOOR ASSEMBLIES SHALL BE OF NON COMBUSTIBLE CONSTRUCTION AND SHALL BE FIRE SEPARATION WITH FIRE RESISTANCE RATING NO LESS THAN 1 HR.

3. EXISTING BUILDING AREA: <u>8,967.17m<sup>2</sup> (96,522 SF)</u> EXISTING

4. GROSS BUILDING AREA: <u>14,170.95 m<sup>2</sup> (152,540 SF)</u> EXISTING

5. AREA OF RENOVATION: <u>1,167 m<sup>2</sup> (12,561 SF)</u>

6. EXISTING BUILDING: UNSPRINKLERED

7. FIRE ALARM - REQUIRED, EXISTING TO REMAIN

8. TRAVEL DISTANCE FROM AREAS TO EXIT > 30m, CORRIDOR WALLS REQUIRE A 1HR FIRE RESISTANCE RATING (3.2.2.24).

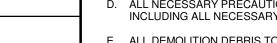
9. ANY NEW PENETRATIONS AT CORRIDOR WALLS TO BE FIRE STOPPED TO MAINTAIN A 1 HOUR FRR.

10. PLUMBING FIXTURE ADDED:

1 UNIVERSAL WASHROOM (SPEC ED)

1 INDIVIDUAL WASHROOM (TEAM ROOM)

1 STAFF WASHROOM



- ASSEMBLIES.
- PROVIDE RE-SUPPORT AS REQUIRED TO SUIT PHASING.
- WALL/FLOOR.
- WORKING DAY. FIRE WATCH MUST BE PROVIDED BY DEMOLITION/ABATEMENT TRADE WITHOUT ADDITIONAL COST TO OWNER OR CONSULTANT.
- FINISHES.
- CONTRACTOR TO DISPOSE OF ITEMS.
- PRIOR TO CONSTRUCTION START.

TO COMMENCING WORK.

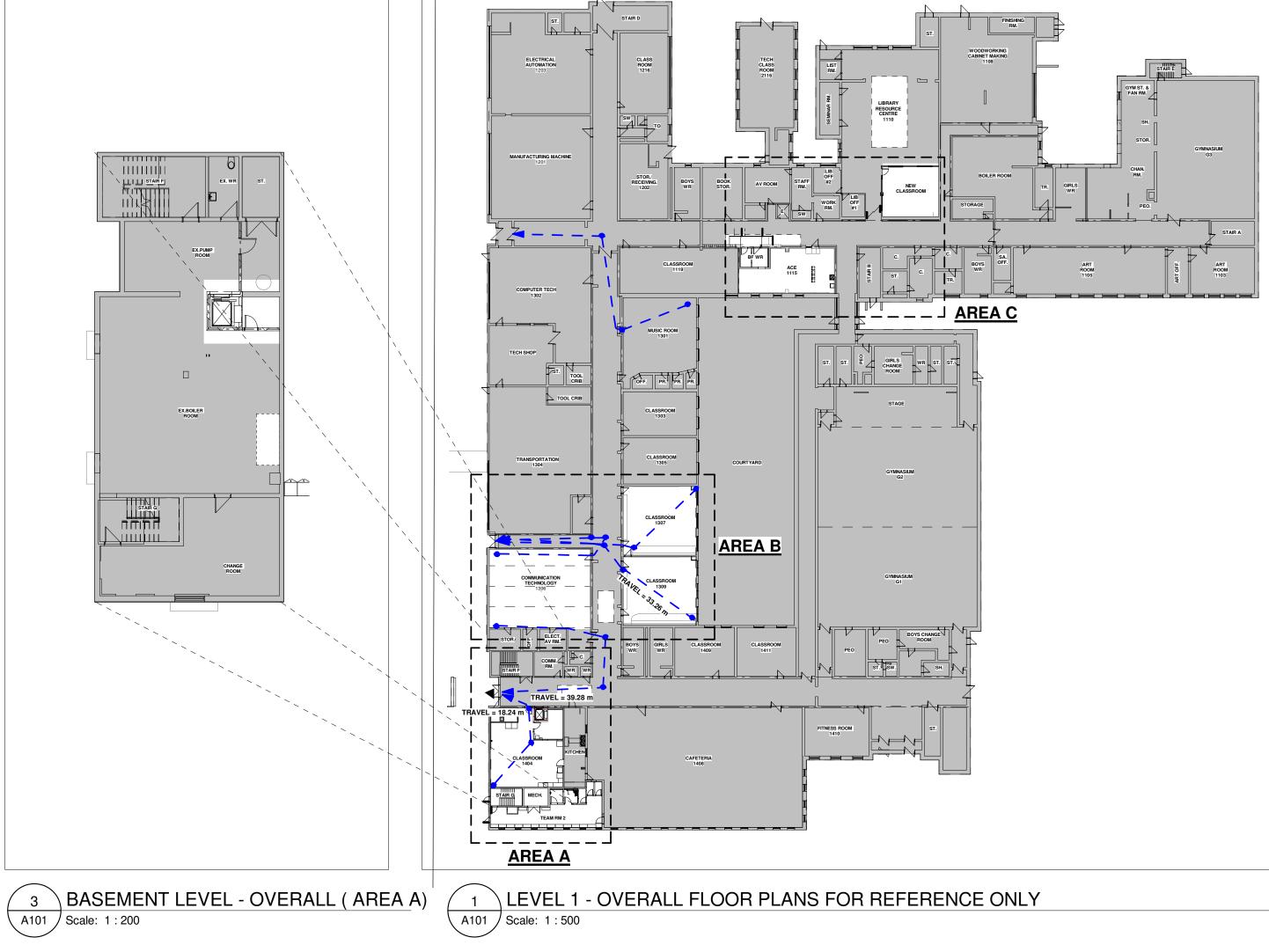
- T. OBTAIN SCHOOL APPROVAL OF DEMOLITION SCHEDULE AND LOCATION OF BINS.

### **GENERAL NOTES**

TESTED.

- A. ALL WALLS TO EXTEND TO U/S STRUCTURAL DECK UNLESS OTHERWISE NOTED.
- B. ASSEMBLY CONSTRUCTION READ FROM TAG SIDE OF ASSEMBLY.

- E. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED EQUIPMENT.
- G. SEE MECHANICAL DRAWINGS FOR HVAC EQUIPMENT SIZE AND TYPE.
- REMAIN DURING ALL PHASES OF CONSTRUCTION.
- AND/OR REPLACE CEILING IF DAMAGED BY CONSTRUCTION.



### **GENERAL DEMOLITION NOTES**

A. DRAWING TO BE READ IN CONJUNCTION W/ ALL OTHER CONTRACT DOCUMENTS INCLUDING ABATEMENT SPECIFICATION. COORDINATE w/ OTHER TRADES PRIOR TO COMMENCING WORK.

B. CARRY OUT ALL DEMOLITION, REMOVAL AND DISPOSAL IN ACCORDANCE WITH APPLICABLE PROVINCIAL AND LOCAL REGULATIONS. C. EXECUTE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ADJACENT STRUCTURES AND FINISHES. D. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF THE REMAINING STRUCTURE, INCLUDING ALL NECESSARY BRACING OR SHORING THAT IS REQUIRED.

E. ALL DEMOLITION DEBRIS TO BE DISPOSED BY DEMOLITION/ABATEMENT TRADE UNLESS OTHERWISE NOTED.

F. ALL CONTRACTORS INCLUDING ABATEMENT TO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS OR DEMOLITION NOTES FOR DETAILS OF SCOPE OF MECHANICAL AND ELECTRICAL DEMOLITIONS.

G. CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR, AND MAKE GOOD ALL DAMAGE TO ADJACENT FINISHED SURFACES AND

H. CONTRACTOR TO ENSURE ALL EXIT SIGNAGE TO REMAIN AS INSTALLED AND ENSURE FIXTURES ARE OPERATIONAL. CONTRACTOR TO

I. CONTRACTOR TO ENSURE ALL EMERGENCY LIGHT FIXTURES TO REMAIN ALONG EGRESS ROUTES.

J. PATCH AND MAKE GOOD ANY DAMAGED FIRE ASSEMBLIES WITH CONTINUOUS FIRESTOPPING/FIREBLOCKING EQUAL TO THAT OF

K. CONTRACTOR TO ENSURE ALL MANUAL PULL STATIONS AND FIRE ALARM BELLS REMAIN OPERATIONAL. IF A DEVICE MUST BE REMOVED, THE DEVICE MUST BE PROPERLY DE-PROGRAMMED BY LICENSED FIRE ALARM TECHNICIAN AND RE-ACTIVATED AT END OF

L. CONTRACTOR TO PROVIDE DUST CONTROL AND HOARDING IN ISOLATED DEMOLITION, TYP. FOR EACH LOCATION.

M. CONTRACTOR SHALL PATCH AND MAKE GOOD ALL FLOORS WHERE DISTURBED BY REMOVAL OF WALL ASSEMBLY AND/OR EXISTING

N. IF AN ITEM IS NOT NOTED TO BE REINSTALLED OR TURNED OVER TO THE OWNER, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL

O. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ALL DESIGNATED SUBSTANCES DOCUMENTATION PRIOR

P. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REMOVE ALL LOOSE FURNITURE AND WALL MOUNTED DISPLAYS

Q. ANY MECHANICAL OR ELECTRICAL DEVICES THAT MAY BE TEMPORARILY REMOVED AND REINSTALLED FOR THIS WORK SHALL BE

R. LOCATE AND DISCONNECT, CAP AND PLUG ALL GAS, WATER, SEWER, HYDRO, TELEPHONE AND OTHER SERVICES AS REQUIRED. S. PREPARE ALL THE SURFACES TO BE ACCEPTABLE FOR PROPOSED FINISHING AFTER DEMOLITION WORKS

C. ALL DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.

D. DIMENSIONING TO/FROM EXISTING CONDITIONS SHALL BE AT FACE OF EXISTING ASSEMBLY.

F. REFER TO ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED EQUIPMENT SIZE AND TYPE.

H. CONTRACTOR TO PROTECT ALL EXISTING INTERIOR FINISHES, MECHANICAL, ELECTRICAL, MILLWORK AND FURNITURE TO

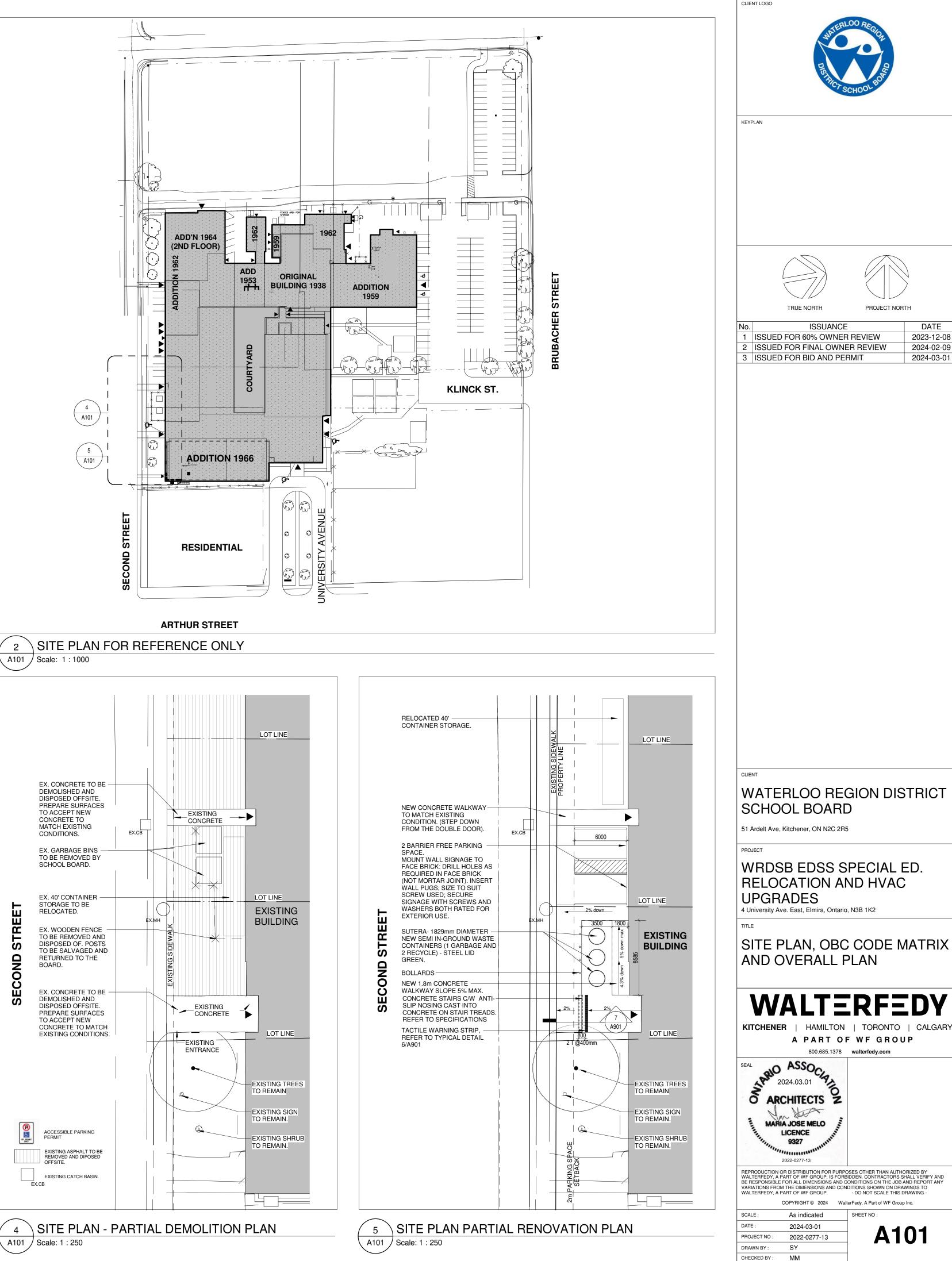
I. MAKE GOOD ALL CEILING TILE/WALLS/SURFACES AFTER CONSTRUCTION, FIX AND PAINT WALLS DAMAGED BY CONSTRUCTION

J. FIRESTOP AND SEAL ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES EQUAL TO ASSEMBLY RATING.

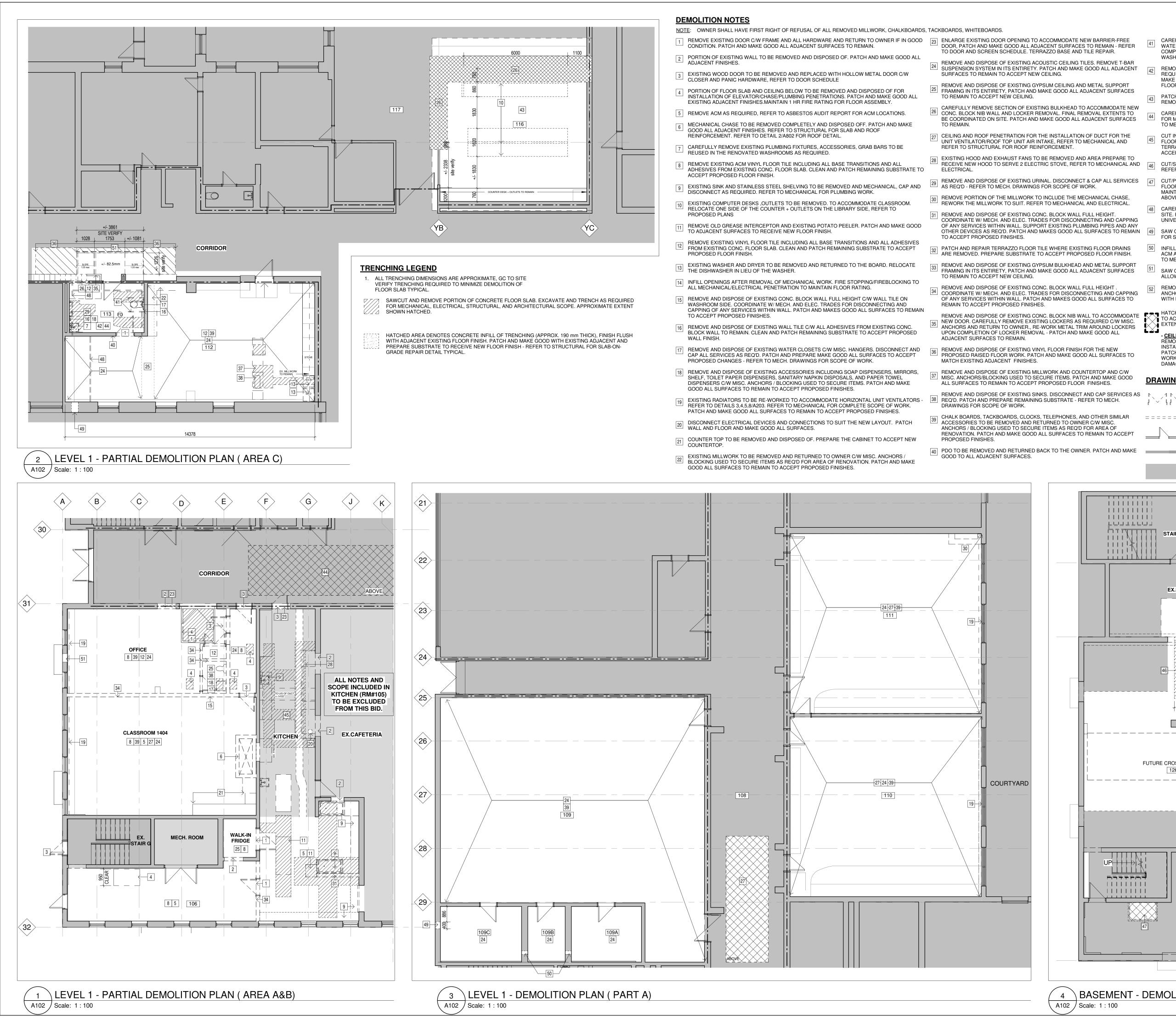
**ARTHUR STREET**  $\setminus$  SITE PLAN FOR REFERENCE ONLY 2 A101 Scale: 1 : 1000 EX. CONCRETE TO BE DEMOLISHED AND DISPOSED OFFSITE PREPARE SURFACES TO ACCEPT NEW EXISTING \_--> CONCRETE TO CONCRETE MATCH EXISTING CONDITIONS. EX. GARBAGE BINS TO BE REMOVED BY SCHOOL BOARD. EX. 40' CONTAINER -STORAGE TO BE RELOCATED. EX. WOODEN FENCE TO BE REMOVED AND Ċ DISPOSED OF, POSTS TO BE SALVAGED AND g RETURNED TO THE BOARD. ш EX. CONCRETE TO BE DEMOLISHED AND ഗ DISPOSED OFFSITE. PREPARE SURFACES TO ACCEPT NEW CONCRETE TO MATCH EXISTING CONDITIONS. EXISTING ENTRANCE •

OFFSITE.

EX.CB







- O DOOR AND SCREEN SCHEDULE. TERRAZZO BASE AND TILE REPAIR. REMOVE AND DISPOSE OF EXISTING ACOUSTIC CEILING TILES. REMOVE T-BAR
- REMOVE AND DISPOSE OF EXISTING GYPSUM CEILING AND METAL SUPPORT FRAMING IN ITS ENTIRETY, PATCH AND MAKE GOOD ALL ADJACENT SURFACES
- BEMOVAL CAREFULLY REMOVE SECTION OF EXISTING BULKHEAD TO ACCOMMODATE NEW <sup>26</sup> CONC. BLOCK NIB WALL AND LOCKER REMOVAL. FINAL REMOVAL EXTENTS TO CAREFULLY REMOVE CEILING TILES AND SECTION OF THE GRIDS BE COORDINATED ON SITE. PATCH AND MAKE GOOD ALL ADJACENT SURFACES FOR MECHANICAL AND ELECTRICAL WORK AS REQUIRED. REFER TO MECHANICAL FOR SCOPE OF WORK.
- 27 CEILING AND ROOF PENETRATION FOR THE INSTALLATION OF DUCT FOR THE UNIT VENTILATOR/ROOF TOP UNIT AIR INTAKE, REFER TO MECHANICAL AND REFER TO STRUCTURAL FOR ROOF REINFORCEMENT.
- 28
   EXISTING HOOD AND EXHAUST FANS TO BE REMOVED AND AREA PREPARE TO RECEIVE NEW HOOD TO SERVE 2 ELECTRIC STOVE, REFER TO MECHANICAL AND
   Image: Cut/Saw SLAB on GRADE, FOR ELEVATOR FOUNDATION WORK,
- AS REQ'D REFER TO MECH. DRAWINGS FOR SCOPE OF WORK.
- REWORK THE MILLWORK TO SUIT. REFER TO MECHANICAL AND ELECTRICAL. REMOVE AND DISPOSE OF EXISTING CONC. BLOCK WALL FULL HEIGHT. COORDINATE W/ MECH. AND ELEC. TRADES FOR DISCONNECTING AND CAPPING
- PATCH AND REPAIR TERRAZZO FLOOR TILE WHERE EXISTING FLOOR DRAINS
- REMOVE AND DISPOSE OF EXISTING CONC. BLOCK WALL FULL HEIGHT . COORDINATE W/ MECH. AND ELEC. TRADES FOR DISCONNECTING AND CAPPING OF ANY SERVICES WITHIN WALL. PATCH AND MAKES GOOD ALL SURFACES TO
- REMOVE AND DISPOSE OF EXISTING CONC. BLOCK NIB WALL TO ACCOMMODATE NEW DOOR. CAREFULLY REMOVE EXISTING LOCKERS AS REQUIRED C/W MISC. ANCHORS AND RETURN TO OWNER., RE-WORK METAL TRIM AROUND LOCKERS UPON COMPLETION OF LOCKER REMOVAL - PATCH AND MAKE GOOD ALL
- REMOVE AND DISPOSE OF EXISTING VINYL FLOOR FINISH FOR THE NEW PROPOSED RAISED FLOOR WORK. PATCH AND MAKE GOOD ALL SURFACES TO MATCH EXISTING ADJACENT FINISHES.
- REMOVE AND DISPOSE OF EXISTING MILLWORK AND COUNTERTOP AND C/W MISC. ANCHORS/BLOCKING USED TO SECURE ITEMS. PATCH AND MAKE GOOD ALL SURFACES TO REMAIN TO ACCEPT PROPOSED FLOOR FINISHES. REMOVE AND DISPOSE OF EXISTING SINKS. DISCONNECT AND CAP SERVICES AS 38 REQ'D. PATCH AND PREPARE REMAINING SUBSTRATE - REFER TO MECH.
- ACCESSORIES TO BE REMOVED AND RETURNED TO OWNER C/W MISC. ANCHORS / BLOCKING USED TO SECURE ITEMS AS REQ'D FOR AREA OF RENOVATION. PATCH AND MAKE GOOD ALL SURFACES TO REMAIN TO ACCEPT

CAREFULLY REMOVE AND SECURE FOLD DOWN GRAB BARS WATER CLOSET AND ACCESSIBLE LIFT. STORE ON SITE. UPON COMPLETION OF INSTALLATION, RE-INSTALL IN UNIVERSAL WASHROOM IF IN A GOOD CONDITION.

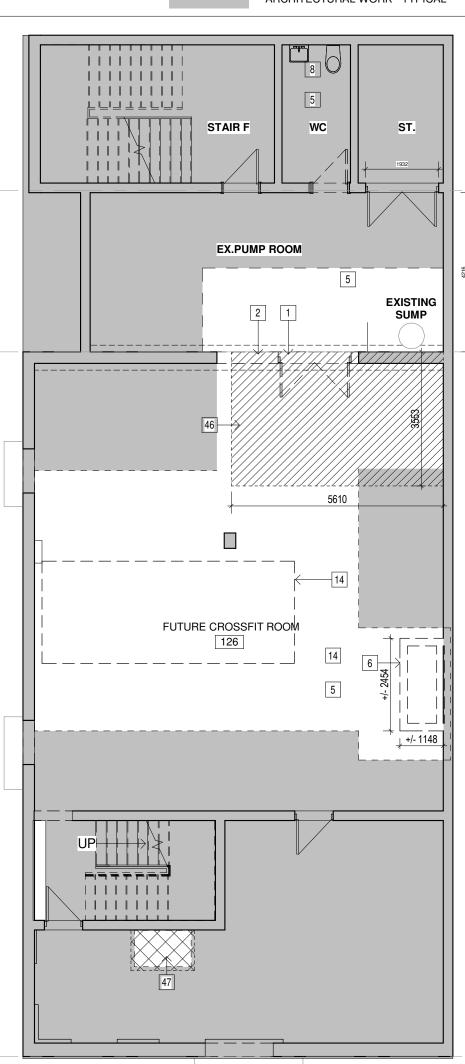
CLIENT LOGO

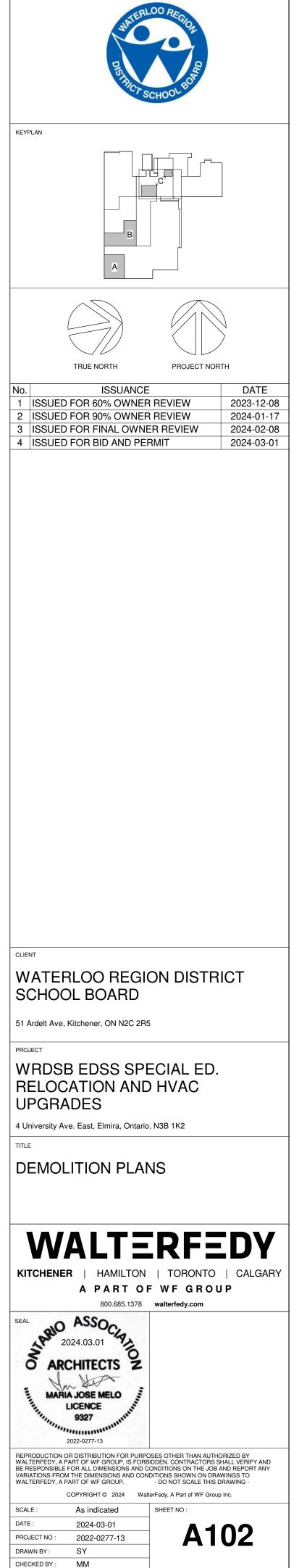
- REMOVE EXISTING PORCELAIN FLOOR TILE, C/W ADHESIVES, AS REQUIRED TO ACCOMMODATE PROPOSED LAYOUT. PATCH AND MAKE GOOD ANY SURFACES AND PREPARE TO RECEIVE NEW FLOOR FINISH.
- PATCH THE FLOOR FINISH AS REQUIRED UPON MILLWORK
- CUT IN SLAB TO INSTALL NEW GREASE INTERCEPTOR AND NEW FLOOR DRAIN FOR THE KITCHEN. CLEAN AND PATCH EXISTING TERRAZZO FLOOR TILE TO REMAIN. PREPARE SUBSTRATE TO ACCEPT PROPOSED FLOOR FINISH. REFER TO MECHANICAL .
- REFER TO STRUCTURAL. REMOVE AND DISPOSE OF EXISTING URINAL. DISCONNECT & CAP ALL SERVICES [47] CUT/PATCH CEILING WORK AS REQUIRED UPON REMOVAL OF FLOOR STRUCTURE FOR THE INSTALLATION OF THE CHASE. MAINTAIN 1HR FRR AND FIRE SEPARATION OF THE FLOOR
  - ABOVE 
     48
     CAREFULLY REMOVE ACCESSIBLE LIFT AND TRACKS, STORE ON
     SITE. RETURN TRACK TO THE BOARD. REINSTALL LIFT IN UNIVERSAL WASHROOM AND SPEC ED CLASSROOM.
- OTHER DEVICES AS REQ'D. PATCH AND MAKES GOOD ALL SURFACES TO REMAIN 49 SAW CUT OPENING FOR BRICK VENT, REFER TO MECHANICAL FOR SIZE.
  - INFILL AND PATCH THE WALL UPON DUCT REMOVAL, REMOVE ACM AS REQUIRED, PAINT THE ROOM TO MATCH EXISTING. REFER TO MECHANICAL FOR DUCT LOCATION. SAW CUT OPENING 510MMX410MM IN AN EXISTING PRECAST TO
  - ALLOW FOR INSTALLATION OF LOUVRE FOR VENTILATOR UNIT. REMOVE EXISTING GUARDRAIL IN ITS ENTIRETY. INFILL THE
  - ANCHOR PLATE HOLES WITH GROUT, PATCH AND MAKE GOOD WITH EXISTING ADJACENT, PREPARE FOR NEW FLOOR FINISH.
  - TO ACCOMMODATE MECH./ELEC./STRUC. WORK. FINAL REMOVAL EXTENTS TO BE COORDINATED ON SITE. CEILING TILES:
  - REMOVE AND STORE CEILING TILE AND GRID AS REQ'D, TO BE RE-INSTATED UPON COMPLETION OF MECH./ELEC./STRUC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW CEILING TILES TO MATCH EXISTING WHERE DAMAGED BY WORK.

# DRAWING LEGEND

- DOOR, FRAME/SIDELIGHT TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE. WALL ASSEMBLY TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
  - DENOTES EXISTING DOOR TO REMAIN UNDISTURBED. DENOTES EXISTING WALL TO REMAIN.

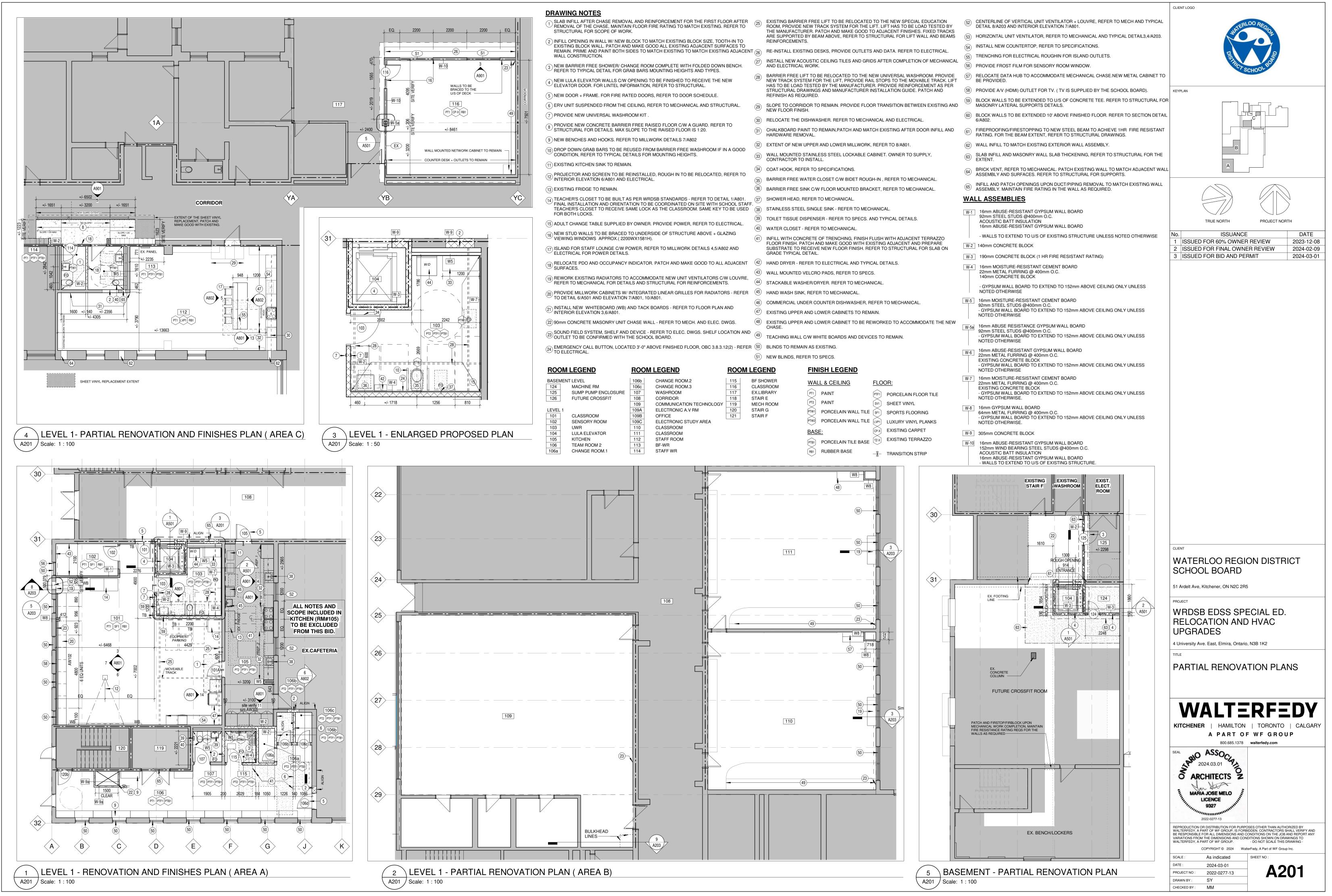
### HATCH DENOTES AREA NOT IN SCOPE OF **ARCHITECTURAL WORK - TYPICAL**





**BASEMENT - DEMOLITION PLAN** A102 / Scale: 1 : 100

4





- PARTIAL	REFLECTED	CEILING PLAN - AREA

			CLIENT LOGO
S	CEILIN	<u>G LEGEND</u>	
C CEILING TILE ASSEMBLY		DENOTES AREAS NOT IN SCOPE	
AL T-BAR SUSPENSION S REQUIRED FOR MECH. / PE AND RE-INSTALL UPON	C-1	CEILING ASSEMBLY	
EXISTING ACOUSTIC CEILING	XXXX	CEILING HEIGHT ABOVE FINISHED FLOOR	
CEILING TILE ASSEMBLY WITH BAR SUSPENSION SYSTEM.		RECESSED LED LIGHT FIXTURE, REFER TO ELEC. DRAWINGS FOR TYPE AND SIZE	
RED FOR MECH. / ELEC. / RE-STALL UPON COMPLETION IC CEILING TILES		SURFACE LED LIGHT FIXTURE, REFER TO ELEC. DRAWINGS FOR TYPE AND SIZE	
VALL BOARD CEILING TO BE UNLESS OTHERWISE NOTED		MECHANICAL SUPPLY AIR DIFFUSER, REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE	
ECEILING	$\bigcirc$	CIRCULAR DIFFUSER	
C CEILING TILE WITH L T-BAR SUSPENSION SYSTEM		RETURN AIR GRILLE, REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE	
L BOARD NG CHANNELS @ 400mm O.C.		EXHAUST FAN	
IANNELS @ 600mm O.C.		EXHAUST DUCT	
RE		1 HR. FIRE RESISTANCE RATING	
		TAL T-BAR SUSPENSION SYSTEM. INSTALL T-BAR OF WORK ABOVE CEILING. INSTALL NEW CEILING TILES.	
R PROJECTOR AND SCREEN AS REC	QUIRED PRI	MOVED AND REINSTALLED. CONTRACTOR TO SITE VERIFY OR TO CEILING WORK. UPON COMPLETION OF NEW OCATION. GC TO SITE VERIFY PRIOR REMOVAL.	
NTED PROJECTOR SCREEN AND IN	STALL IN SA	ME ORIGINAL LOCATION AS OLD ONE WHERE	
MECHANICAL AND ELECTRICAL DEV	ICES IN ITS	ORIGINAL LOCATION, REFER TO MECHANICAL AND	No.
STING MECHANICAL WALL AND ROO	F TOP UNIT	, REFER TO MECHANICAL.	1 ISSUE
VIDE DUCT CONNECTION TO THE N	EW MAKE L	IP AIR UNIT, REFER TO MECHANICAL.	2 ISSUE 3 ISSUE
ND LIGHT FIXTURES TO BE IN THE E	XACT LOC	ATION AS EXISTING.	
KED FOR ANY MECHANICAL WORK.	PATCH ANI	PAINT TO MATCH WALL PAINT.	
EW WALL MOUNTED PROJECTOR SC	REEN. FIN	AL LOCATION TO BE COORDINATED WITH SCHOOL STAFF	
R DUCT WORK TO THE FIRST FLOOP RATION. FRAMING SHOULD BE SUP		THE DUCT BETWEEN JOISTS, PROVIDE 2X6 FRAMING THE EXISTING JOISTS.	

TRANSFER DUCT AT THE DOOR LEVEL HEIGHT, REFER TO MECHANICAL. REMOVE ACM AS REQUIRED FOR PENETRATIONS.

BRICK VENT, REFER TO STRUCTURAL FOR REINFORCEMENT REQUIREMENTS.

EXISTING TRACK TO BE REINSTALLED, REFER TO ELECTRICAL.

PROJECTOR SCREEN TO BE REMOVED AND REINSTALLED IN ITS ORIGINAL LOCATION.

PROJECTOR AND WALL MOUNTED PROJECTOR SCREEN TO BE REMOVED AND REINSTALLED AND TO BE CENTERED ON THE

INSTALL 2 SPEAKERS, REFER TO ELECTRICAL.LOCATIONS TO BE DETERMINED ON SITE.

RELOCATE LIGHTING FIXTURES, REFER TO ELECTRICAL.

EXHAUST FAN BELOW CEILING, REMOVE TILES AS REQUIRED FOR EXHAUST FAN SUPPORT. REFER TO MECHANICAL

20) PATCH WALL AFTER DUCT REMOVAL, PATCH AND INSTALL 8" SHIP LAP SIDING TO MATCH EXISTING FINISHES.

CUT INTO STUD WALLS TO INSTALL DUCT WORK, PATCH AND REFINISH TO MATCH EXISTING ADJACENT UPON COMPLETION.

(2) BRICK VENT, REFER TO MECHANICAL. PATCH EXISTING WALL TO MATCH ADJACENT WALL ASSEMBLY AND SURFACES. REFER TO STRUCTURAL FOR SUPPORTS.

### **DRAWING LEGEND**

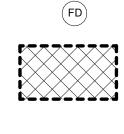
PROVIDE 1 HR. FIRE RESISTANCE RATING ALONG EXISTING AND NEW BLOCK WALL WHERE INDICATED - FIRE STOP ALL PENETRATIONS.

FLOOR DRAIN - REFER TO MECHANICAL DRAWINGS FOR SCOPE

REMOVE AND STORE CEILING TILE AND GRID AS REQ'D, TO BE RE-

INSTATED UPON COMPLETION OF MECH./ELEC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE

NEW CEILING TILES TO MATCH EXISTING WHERE DAMAGED BY WORK.



OF WORK. HATCHED AREA DENOTES APPROX. AREA OF CEILING REMOVAL TO

ACCOMMODATE ARCH./MECH./ELEC. WORK. FINAL REMOVAL EXTENTS

ROOM LEGEND

ROOM LEGEND

TO BE COORDINATED ON SITE.

- CEILING TILES:

112 113

114

BASEN	IENT LEVEL	106b
124	MACHINE RM	106c
125	SUMP PUMP ENCLOSURE	107
126	FUTURE CROSSFIT	108
		109
LEVEL	1	109A
101	CLASSROOM	109B
102	SENSORY ROOM	109C
103	UWR	110
104	LULA ELEVATOR	111

KITCHEN

TEAM ROOM 2

CHANGE ROOM.1

### ROOM LEGEND

105 106

106a

115	BF SHOWER
116	CLASSROOM
117	EX.LIBRARY
118	STAIR E
119	MECH ROOM
120	STAIR G
121	STAIR F

106b 106c CHANGE ROOM.2

CHANGE ROOM.3
WASHROOM
CORRIDOR
COMMUNICATION TECHNOLOG
ELECTRONIC A.V RM
OFFICE
ELECTRONIC STUDY AREA
CLASSROOM
CLASSROOM
STAFF ROOM

BF-WR STAFF WR

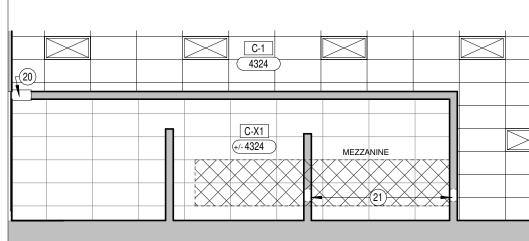
SCALE :

DATE :

PROJECT NO :

DRAWN BY :

CHECKED BY : MM



Α TRUE NORTH PROJECT NORTH ISSUANCE DATE ISSUED FOR 60% OWNER REVIEW 2023-12-08 ISSUED FOR FINAL OWNER REVIEW 2024-02-09 ISSUED FOR BID AND PERMIT 2024-03-01 CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD 51 Ardelt Ave, Kitchener, ON N2C 2R5 PROJECT WRDSB EDSS SPECIAL ED. RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2 REFLECTED CEILING PLANS WALTERFEDY HAMILTON | TORONTO | CALGARY KITCHENER A PART OF WF GROUP 800.685.1378 walterfedy.com AND ASSOCIA SEAL 2024.03.01 O ARCHITECTS Z Man Har MARIA JOSE MELO LICENCE 9327 2022-0277-13 REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY WALTERFEDY, A PART OF WF GROUP, IS FORBIDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VABIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO WALTERFEDY, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

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As indicated

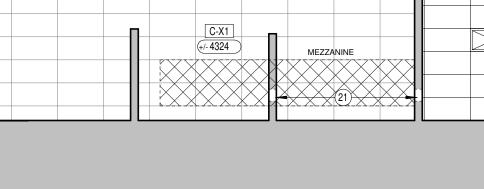
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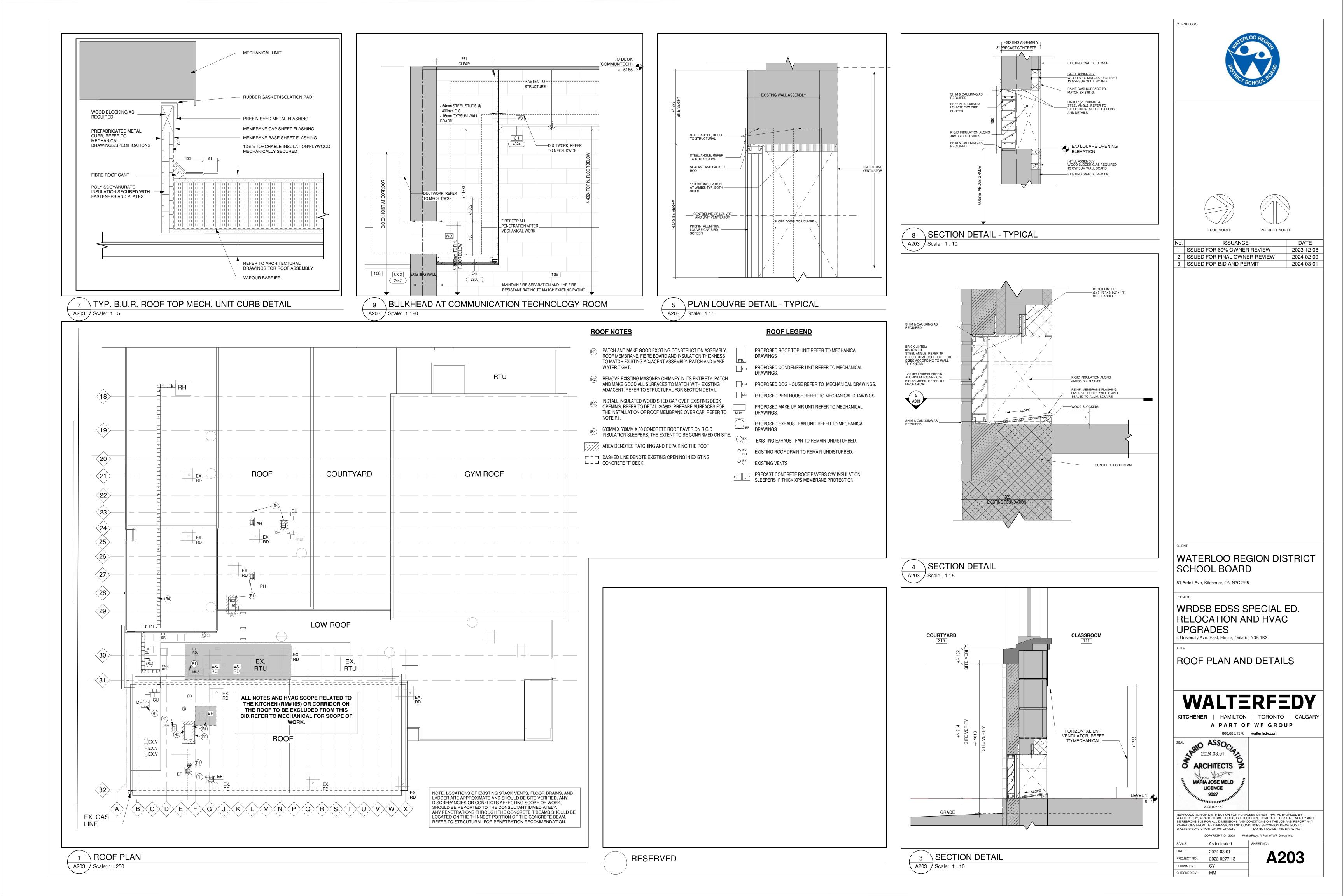
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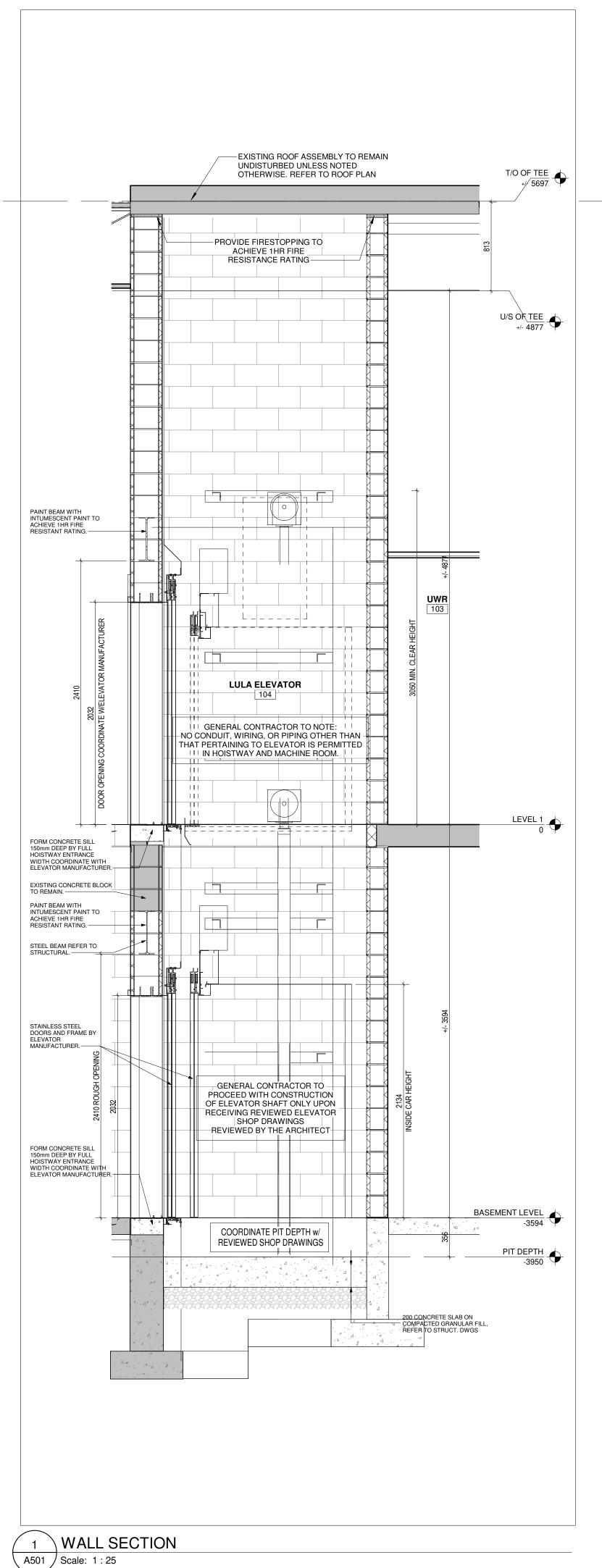
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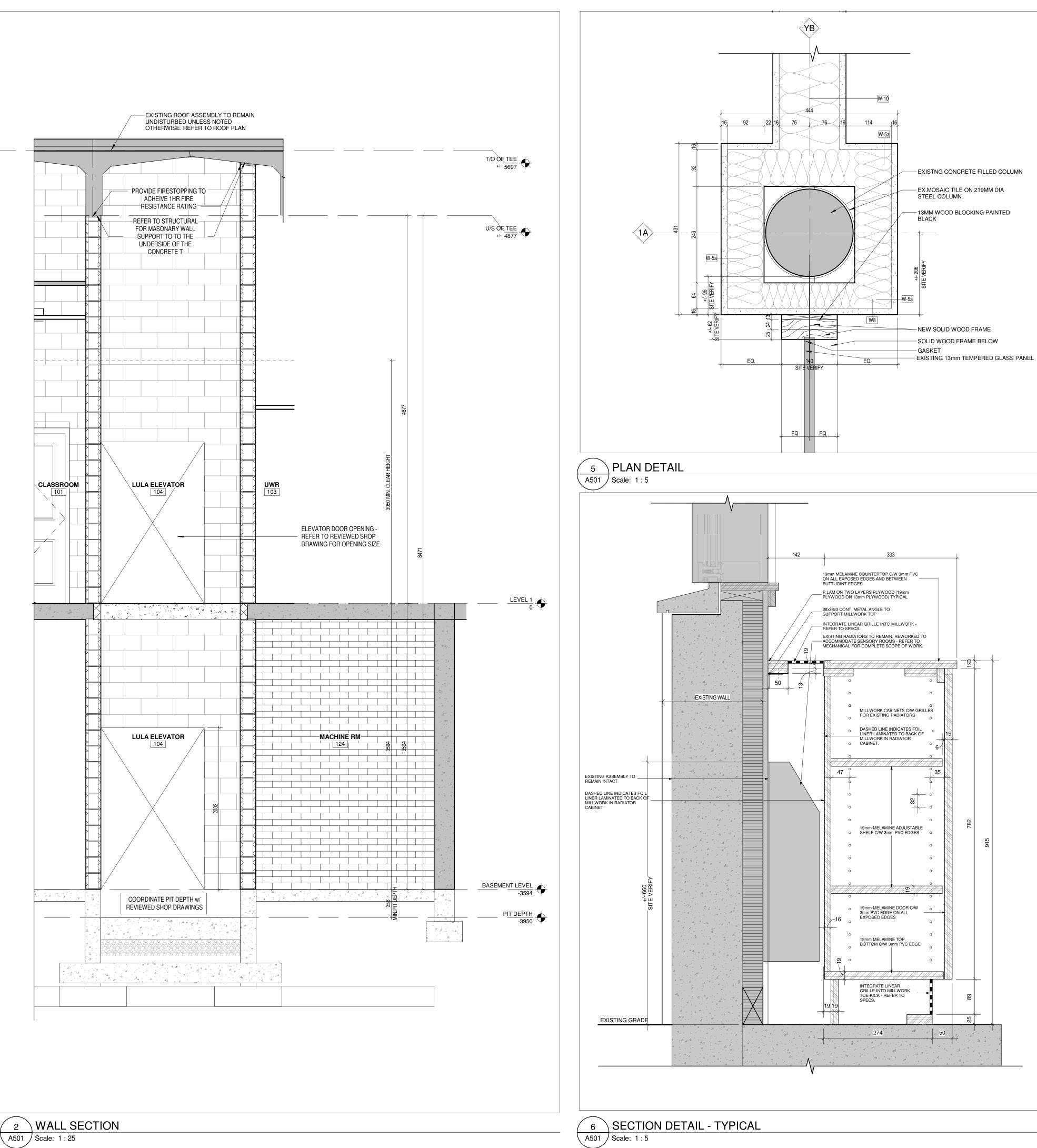
A202

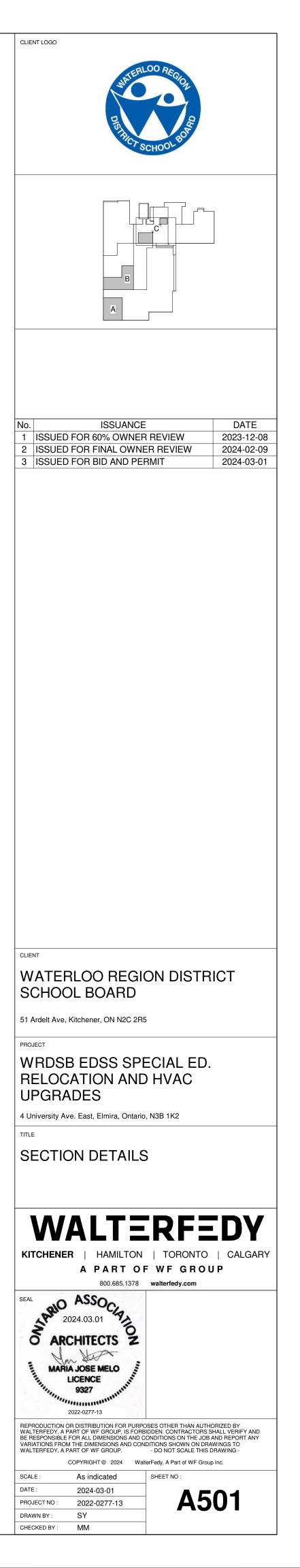


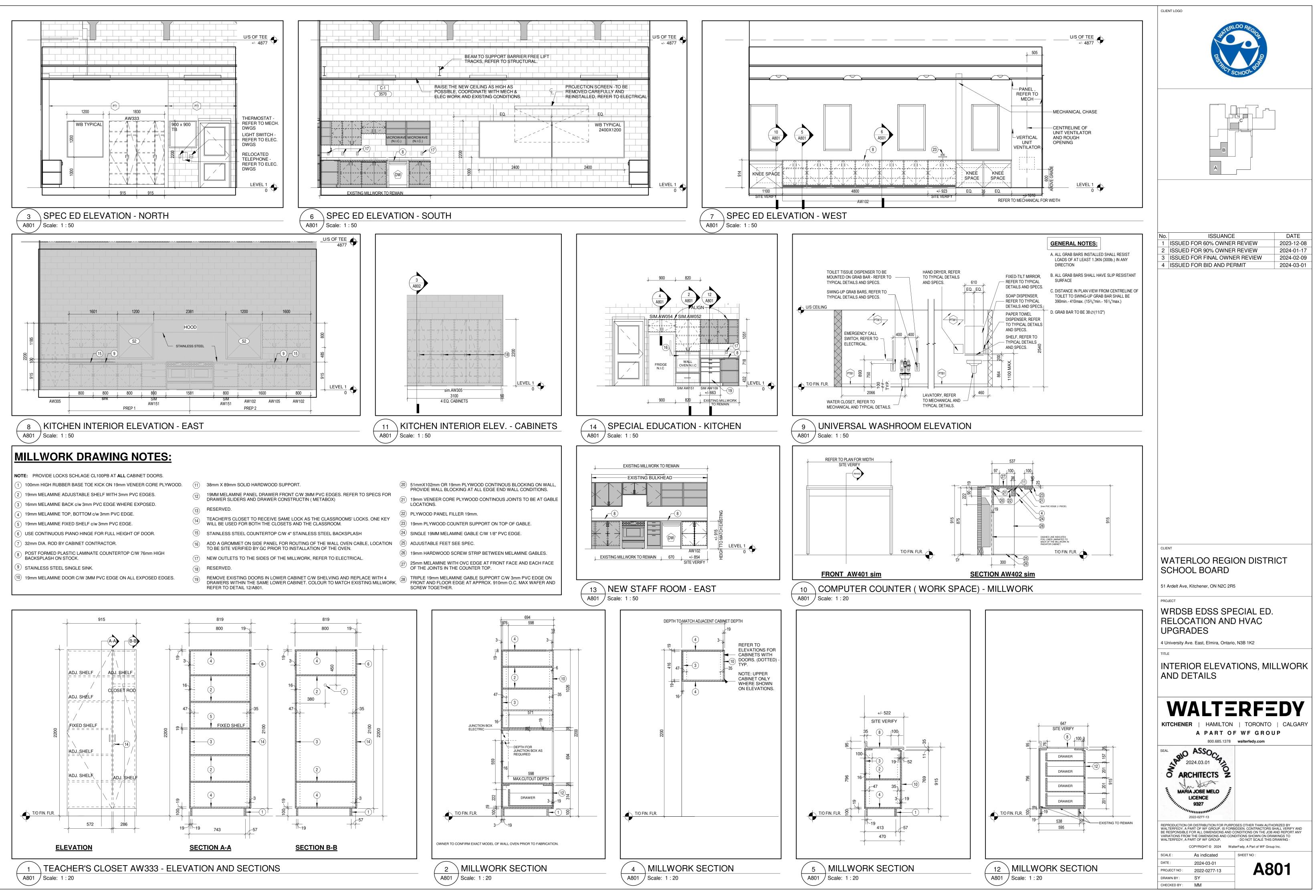
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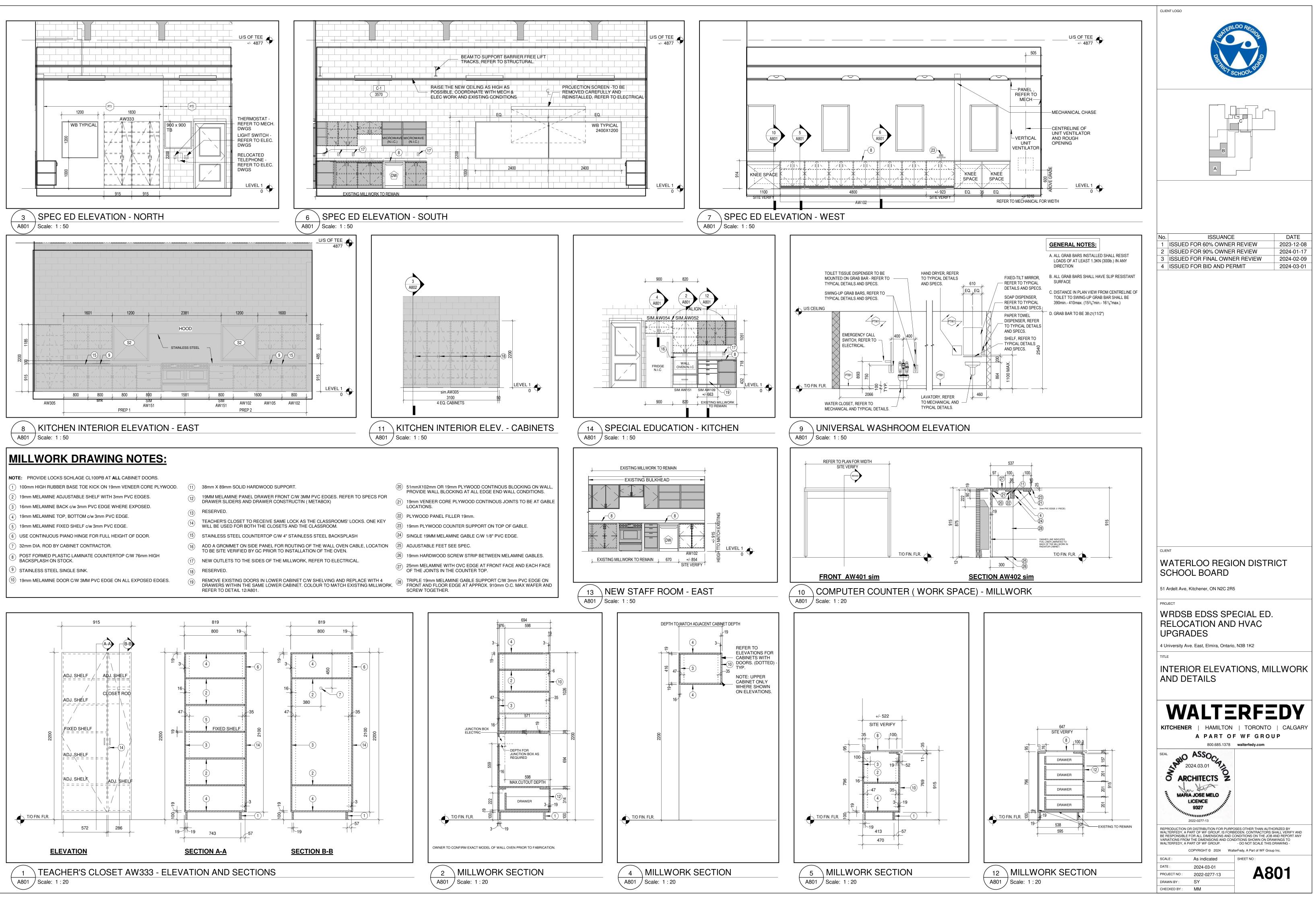


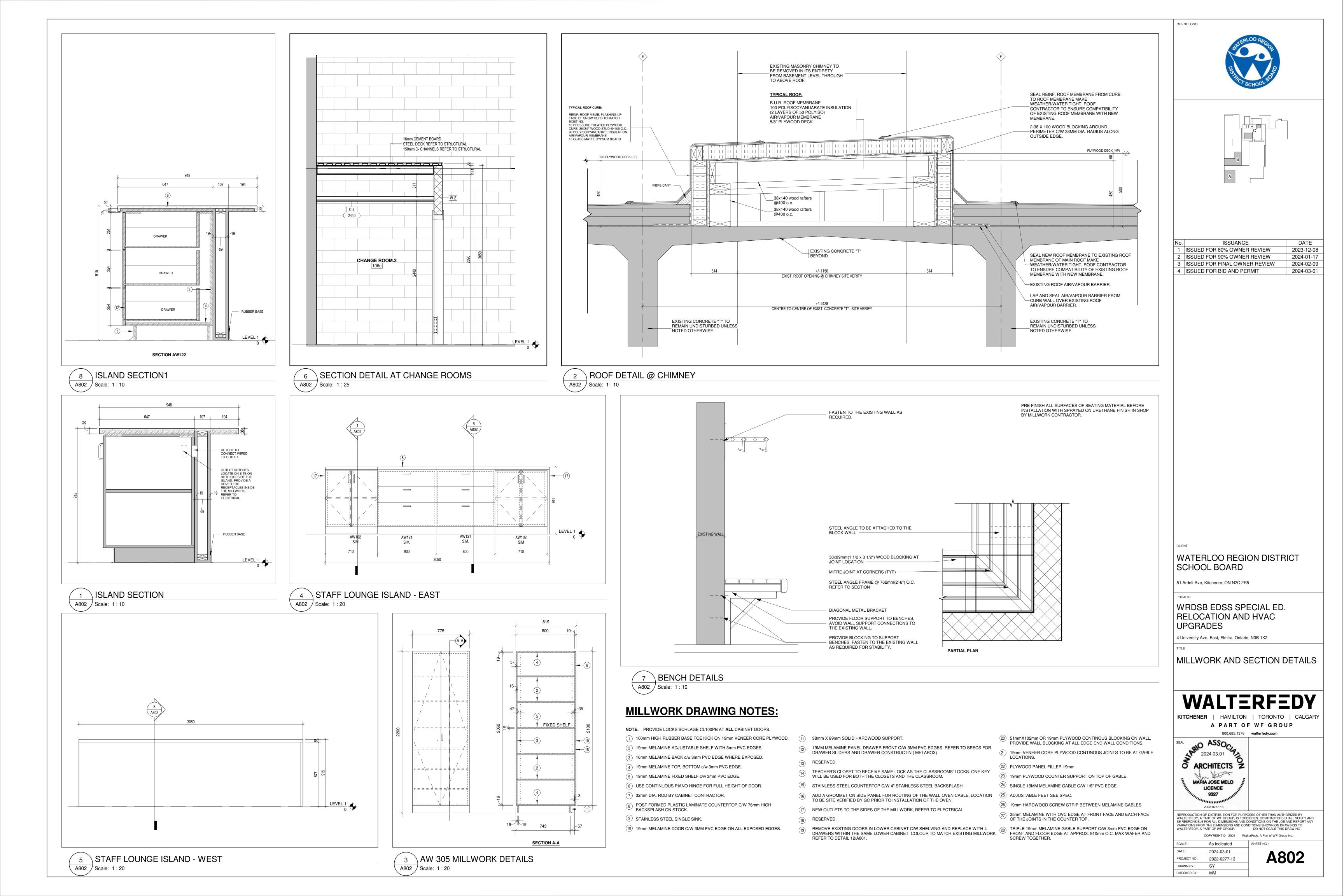


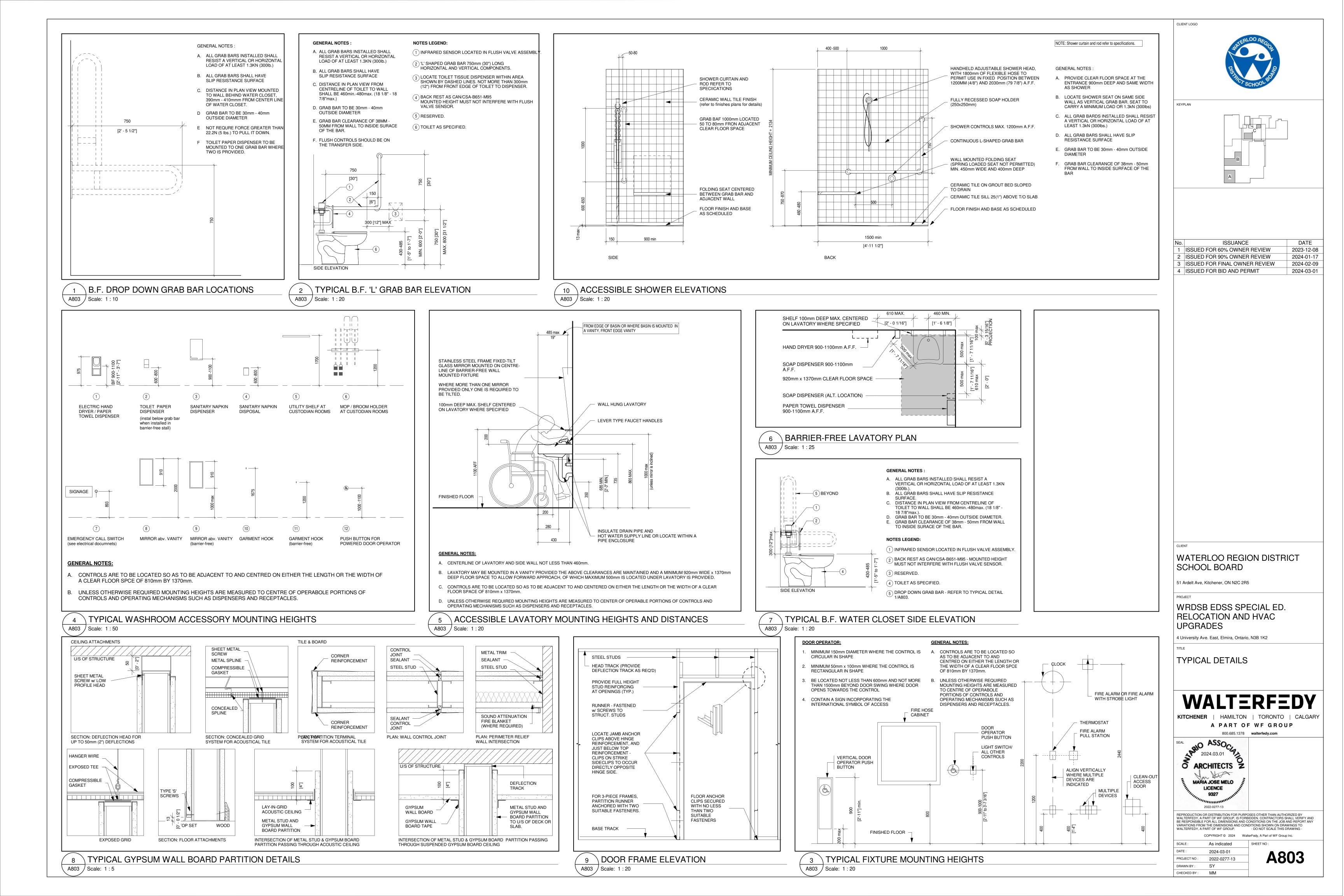


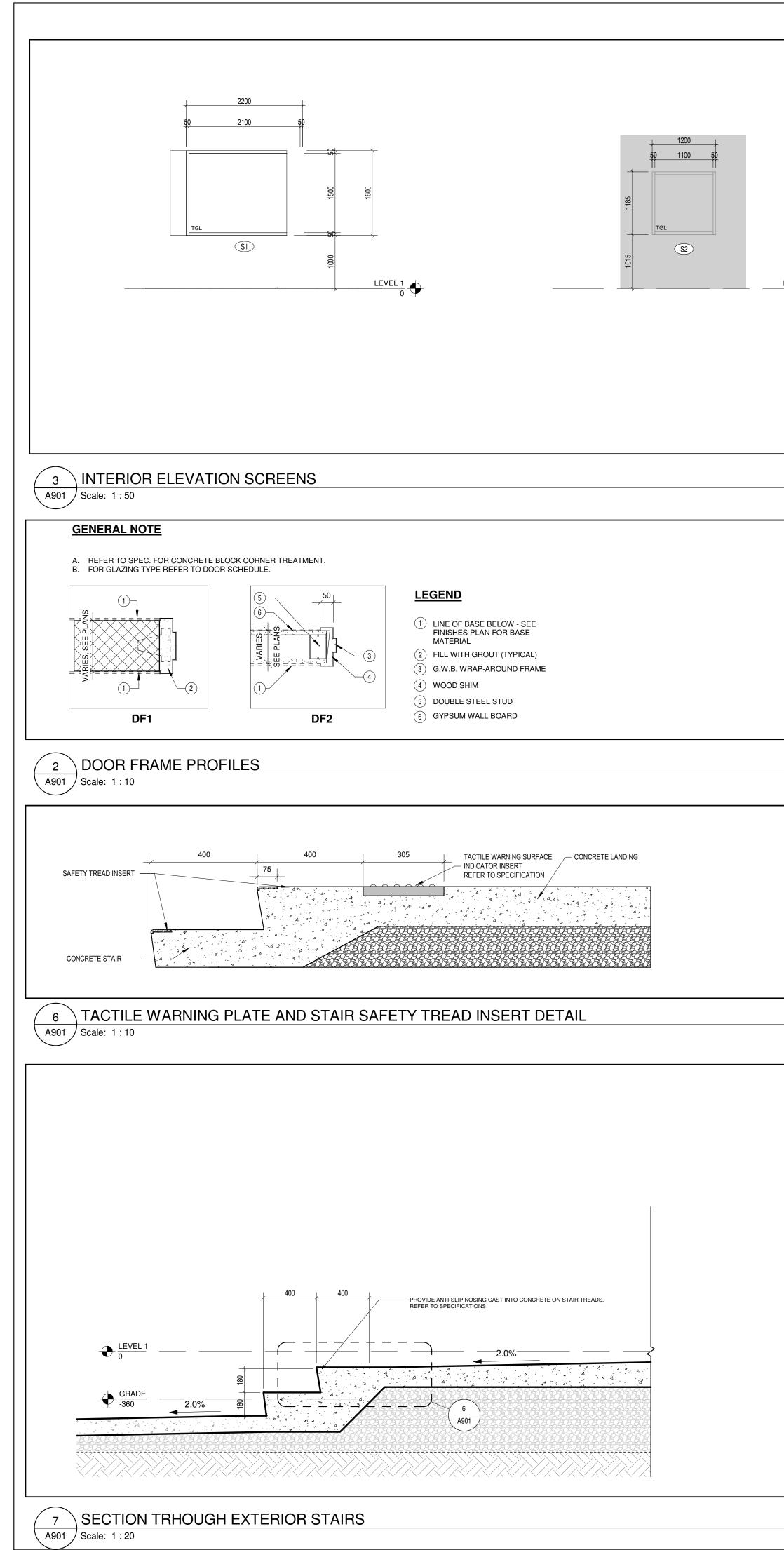




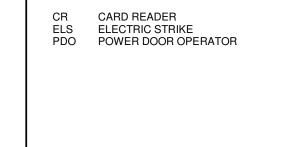




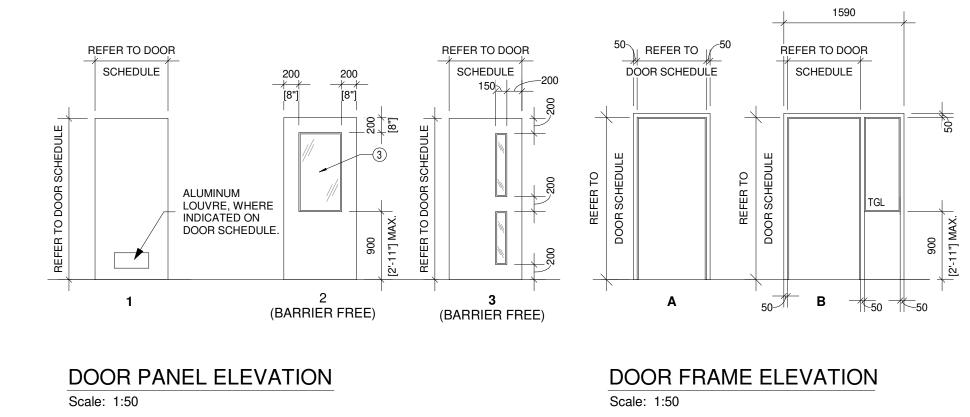


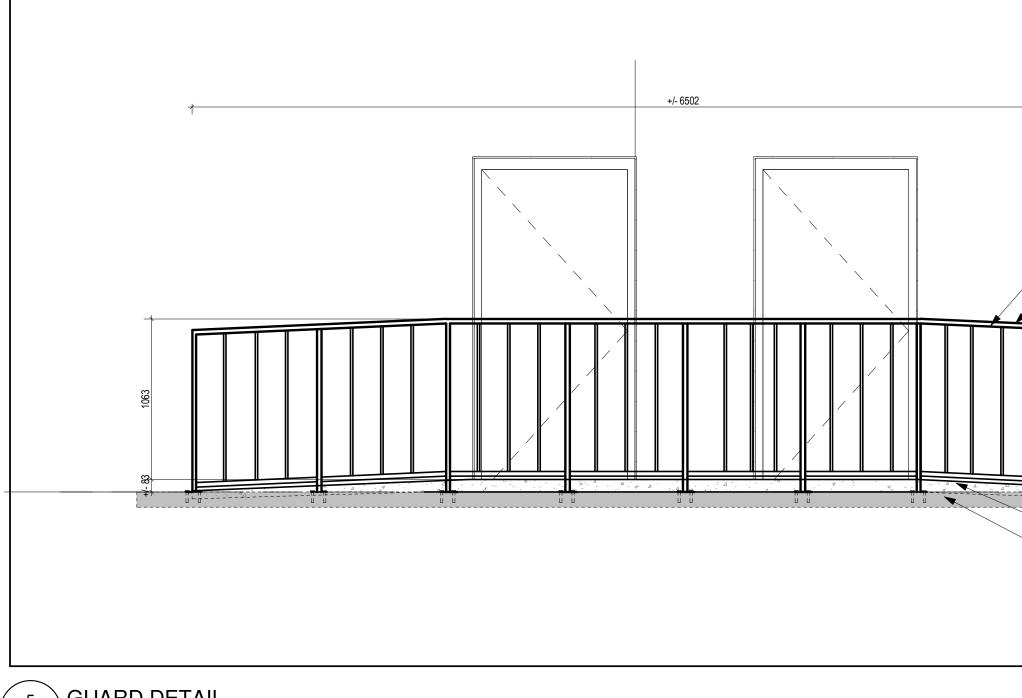


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ree		Door/Screen Type /		Frame Type	/			Hardware	Thr			Temp	DISTRICT SCHOOL BOR
I		Elev Materia	al Finish Glazing	Grille Elev	Profile	Material	Finish	Panics Clo	ser ho	ld Strip	Rating	. Rise Notes	KEYPLAN
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REFER TO DOOR SCHEDULE		<u>/</u>	DULE.	ER TO DOOR SCHEDULE	<u>/</u>		REFER TO	· – // – – – – – – – – – – – – – – – – –	1590 TO DOOR EDULE	900 50 <sup>4</sup> 50		DOOR SCHEDULE LEGEND         HM HOLLOW METAL         PNT PAINT         DO POWER DOOR OPERATOR         ES ELECTRIC STRIKE         OHS OVERHEAD STOP         TGL TEMPERED GLASS         FRGL FIRE RATED GLASS         1. FRAME HEAD HEIGHT TO BE 50mm (2") UNLESS OTHERWISE NOTED.	
	1		(BARRIER FREE)	(BARRIE	R FREE)	·	Α	50-7	B <del>~</del> 5	0 1 50		REFER TO DOOR SCHEDULE 2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH <u>965MM</u> [3'-2"] AND <u>1015MM</u> [3'-4"] WITH PANIC SET.	
-	1 DOOR P Scale: 1:50	PANEL ELE		(BARRIE	R FREE)	DOC Scale:		ME ELEV	-   ~5			REFER TO DOOR SCHEDULE 2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH 965MM	CLIENT
1	Scale: 1:50	ELEVATIO	EVATION	(BARRIE	R FREE)			50211	-   ~5			REFER TO DOOR SCHEDULE 2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH <u>965MM</u> [3'-2"] AND <u>1015MM</u> [3'-4"] WITH PANIC SET.	CLIENT WATERLOO REGION DISTRIC SCHOOL BOARD 51 Ardelt Ave, Kitchener, ON N2C 2R5
1	Scale: 1:50	ELEVATIO	EVATION	(BARRIE	R FREE)		1:50	50211	-   ~5			REFER TO DOOR SCHEDULE 2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH <u>965MM</u> [3'-2"] AND <u>1015MM</u> [3'-4"] WITH PANIC SET.	WATERLOO REGION DISTRIC SCHOOL BOARD
1	Scale: 1:50	ELEVATIO	EVATION		R FREE)	Scale:	1:50	50211	-   ~5			REFER TO DOOR SCHEDULE	WATERLOO REGION DISTRIC         SCHOOL BOARD         51 Ardelt Ave, Kitchener, ON N2C 2R5         PROJECT         WRDSB EDSS SPECIAL ED, RELOCATION AND HVAC UPGRADES         4 University Ave. East, Elmira, Ontario, N3B 1K2         TITLE         DOOR AND SCREEN ELEVATIONS AND DETAILS
1	Scale: 1:50	ELEVATIO	EVATION			Scale:	1:50	50211	-   ~5			REFER TO DOOR SCHEDULE  2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN OBC 3.8.1.3 TO BE MINIMUM DOOR WIDTH <u>965MM</u> [3'-2'] AND <u>1015MM</u> [3'-4'] WITH PANIC SET.  3. FOR GLAZING TYPE WHERE INDICATED ON DOOR SCHEDULE AND FIRE RESISTANCE RATING, REFER TO DOOR SCHEDULE.  5. FOR GLAZING TYPE WHERE INDICATED ON DOOR SCHEDULE AND FIRE STEEL GUARD IN A BRUSHED STAINLESS FINISH 38mm Ø STEEL TOP RAIL	Ardel Ave, Kitchener, ON N2C 2R5 PROJECT WRDSB EDSS SPECIAL ED, RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2 TITE DOOR AND SCREEN LEVATIONS AND DETAILS MANUELEVATIONS AND DETAILS KITCHENER   HAMILTON   TORONTO   CALC A PART OF WF GROUP
1	Scale: 1:50					Scale:	1:50	50211				REFER TO DOOR SCHEDULE	Ardelt Ave, Kitchener, ON N2C 2R5 PROJECT WRDSB EDSS SPECIAL ED. RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2 TITLE DOOR AND SCREEN ELEVATIONS AND DETAILS MARIA JOSE MELO 2024.03.01 MARIA JOSE MELO UMARIA JOSE MELO
1	Scale: 1:50					Scale:	1:50					REFER TO DOOR SCHEDULE 2. ALL DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIBED IN DEC 33.13 TO BE MINIMUM DOOR WIDTH <u>955MM</u> [3'-2'] AND <u>1015MM</u> [3'-4'] WITH PANIC SET. 3. FOR GLAZING TYPE WHERE INDICATED ON DOOR SCHEDULE AND FIRE RESISTANCE RATING, REFER TO DOOR SCHEDULE. STEEL GUARD IN A BRUSHED STAINLESS FINISH 38mm Ø STEEL TOP RAIL 38mm Ø STEEL PICKETS 38mm Ø STEEL DOTTOM RAIL LEVEL 1 0	WATERLOO REGION DISTRIC SCHOOL BOARD 51 Ardelt Ave, Kitchener, ON N2C 2R5 PROJECT WRDSB EDSS SPECIAL ED. RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2 TITLE DOOR AND SCREEN ELEVATIONS AND DETAILS MARLED DETAILS KITCHENER HAMILTON TORONTO CALG A PART OF WF GROUP 800.685.1378 waiterfedy.com
	Scale: 1:50					Scale:	1:50					REFER TO DOOR SCHEDULE A ALD DOORS LOCATED IN A REQUIRED BARRIER FREE PATH OF TRAVEL AS DESCRIEED IN DOG 33.13 TO BE MINIMUM DOOR WIDTH <u>365MM</u> (3*21 AND <u>1015MM</u> (3*41) WITH PANIC SET. <b>FOR GLAZING TYPE WHERE INDICATED ON DOOR SCHEDULE AND FIRE</b> RESISTANCE RATING, REPER TO DOOR SCHEDULE. <b>STEEL GUARD IN A BRUSHED</b> STAINLESS FINISH 38mm Ø STEEL TOP RAIL 38mm Ø STEEL PICKETS 38mm Ø STEEL PICKETS 38mm STEEL BOTTOM RAIL LEVEL 1 16mm Ø STEEL PICKETS 38mm STEEL BOTTOM RAIL 150X50X6.4 BASE PLATE C/W (2) 19mm DIA HILTI HAS RODS SECURED WITH HILTI HIT.HY NEW CONC. TOPPING (REFER TO STRUCTURAL)	WATERLOO REGION DISTRIC SCHOOL BOARD 31 Ardeit Ave, Kitchener, ON N2C 2R5 PROJECT WRDSB EDSS SPECIAL ED, RELOCATION AND HVAC UPGRADES 4 University Ave. East, Elmira, Ontario, N3B 1K2 TILE DOOR AND SCREEN ELEVATIONS AND DETAILS METCHENER HAMILTON TORONTO CALC A PART OF WF GROUP NOTESTATE Waterredy and ASSO UCCASION ARCHITECTS D STATEMENT OF WF GROUP BOORS STATE WATERPEOPULATIONS SOME CONTRACTORS SAMEL VERTICE ARCHITECTS D STATEMENT OF WF GROUP BOORS STATE WATERPEOPULATION SO THER THAN AUTHORIZED BY MATERPEOPULATION FOR PULPEOSES OTHER THAN AUTHOR FOR PULPEOSES AUTHOR FOR PULPEOSES OT









### . GENERAL

- MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2012 ONTARIO BUILDING CODE AND ANY APPLICABLE ACTS OF THE AUTHORITY HAVING JURISDICTION.
- READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS, AND ALL OTHER CONTRACT DOCUMENTS.
- VERIFY ALL STRUCTURAL DIMENSIONS WITH THE CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- THE MOST STRINGENT REQUIREMENT GOVERNS WHERE DISCREPANCIES OCCUR WITHIN THE CONTRACT DOCUMENTS, INCLUDING APPLICABLE CODES, STANDARDS AND ACTS.
- REFER TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS, DEPRESSIONS, GROOVES, CURBS, CHAMFERS, SLOPES, SLEEVES, EQUIPMENT BASES, HOUSEKEEPING PADS, TRENCHES, SUMP PITS AND EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- OPENINGS AND SLEEVES SHOWN ARE LOCATED AND DIMENSIONED FOR STRUCTURAL DETAILING PURPOSES ONLY. COORDINATE THE EXACT SIZES AND LOCATIONS WITH THE CONSULTANT AND APPLICABLE TRADES DURING CONSTRUCTION. REPORT ANY CONFLICTS TO THE CONSULTANT
- DO NOT CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT PERMISSION FROM THE CONSULTANT, UNLESS NOTED ON THE DRAWINGS.
- THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY, TEMPORARY WORKS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS SHOWN ON THE DRAWINGS. ). PROVIDE ALL TEMPORARY SHORING, BRACING, HOARDING AND PROTECTION NECESSARY TO COMPLETE THE WORK AND COMPLY WITH APPLICABLE REGULATIONS. TEMPORARY WORKS TO BE DESIGNED AND INSPECTED BY A PROFESSIONAL ENGINEER WHO IS RETAINED BY THE CONTRACTOR.
- TEMPORARY SHORING IS SHOWN CONCEPTUALLY ON THE STRUCTURAL DRAWINGS WHERE NECESSARY TO PROVIDE DESIGN LOADS FOR DESIGN OF SHORING SYSTEMS, ILLUSTRATE DESIGN INTENT, OR TO INDICATE REQUIREMENTS FOR MAINTAINING STABILITY OF THE STRUCTURE. IT DOES NOT REPRESENT A COMPLETE SHORING SYSTEM, NOR ALL THE TEMPORARY WORKS NECESSARY TO COMPLETE CONSTRUCTION OF THE PROJECT.

### EXISTING CONDITIONS

- EXISTING STRUCTURE AND DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE, AND ARE PROVIDED TO CONVEY DESIGN INTENT ONLY. THE DESIGN IS BASED ON THE INFORMATION CONTAINED IN THE RECORD DRAWINGS FOR THE EXISTING BUILDINGS, AND ON LIMITED SITE OBSERVATIONS, VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK NOTIFY THE CONSULTANT OF ANY DISCREPANCIES OR CONDITIONS ENCOUNTERED THAT COULD POTENTIALLY AFFECT THE WORK, AND OBTAIN DIRECTION BEFORE PROCEEDING.
- LOCATE ALL EXISTING BURIED UTILITIES AND STRUCTURES. REFER TO CIVIL, MECHANICAL AND ELECTRICAL DOCUMENTS FOR APPROXIMATE LOCATION OF ALL PROPOSED AND KNOWN EXISTING SERVICES. REMOVE, RELOCATE OR PROVIDE PROTECTION DURING CONSTRUCTION, AS DIRECTED BY THE CONSULTANT
- PROTECT EXISTING STRUCTURES FROM DAMAGE DURING CONSTRUCTION. PATCH AND MAKE GOOD ALL EXISTING BUILDING ELEMENTS DISTURBED OR DAMAGED AS PART OF THE WORK.

### . DEMOLITION

- THE DEMOLITION SEQUENCING NOTES ARE PROVIDED AS GUIDANCE TO THE CONTRACTOR, AND ONLY INDICATE THE SEQUENCE OF DEMOLITION WORK NECESSARY TO MAINTAIN STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
- RETAIN A PROFESSIONAL ENGINEER TO PREPARE A DETAILED DEMOLITION PLAN AND UNDERTAKE GENERAL REVIEW OF THE PROJECT DURING DEMOLITION.
- CARRY OUT ALL DEMOLITION, REMOVAL AND DISPOSAL IN ACCORDANCE WITH APPLICABLE PROVINCIAL AND LOCAL REGULATIONS.
- PROTECT ADJACENT STRUCTURES, FINISHES AND SERVICES FROM DAMAGE DURING DEMOLITION WORK.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF THE REMAINING STRUCTURE, INCLUDING ALL NECESSARY BRACING OR SHORING THAT IS REQUIRED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE AND MAKE MODIFICATIONS TO SUIT EXISTING SITE CONDITIONS.
- SCAN CONCRETE FOR EMBEDDED CONDUIT OR SERVICES PRIOR TO DEMOLITION/SAW-
- WHEN PERFORMING CONCRETE SLAB REMOVALS AND EXCAVATIONS FOR MECHANICAL/ELECTRICAL SERVICE CONNECTIONS, CONTRACTOR SHALL TAKE CARE NOT TO UNDERMINE EXISTING BLOCK WALLS OR CONCRETE SLAB. PROVIDE TEMPORARY SHORING OR LEAN CONCRETE FILL AS REQUIRED.
- REPORT ALL DISCREPANCIES TO THE ENGINEER FOR CONFIRMATION/CLARIFICATION PRIOR TO COMMENCEMENT OF ANY DEMOLITION SCOPE.
- 10. ALL DEMOLITION DEBRIS TO BE DISPOSED OF OFF SITE.
- 1. PATCH AND MAKE GOOD ALL FLOORS WHERE DISTURBED BY REMOVAL OF WALL ASSEMBLY AND/OR EXISTING FINISHES
- 12. PATCH AND MAKE GOOD ALL EXISTING MASONRY WALLS TO REMAIN DISTURBED BY REMOVAL OF ADJACENT SURFACES
- 13. REFER TO MECHANICAL AND ELECTRICAL SPECIFICATIONS. DRAWINGS OR DEMOLITION NOTES FOR DETAILS OF SCOPE OF MECHANICAL AND ELECTRICAL DEMOLITIONS.
- 4. LOCATE AND DISCONNECT, CAP AND PLUG ALL GAS, WATER, SEWER, HYDRO, TELEPHONE AND OTHER SERVICES AS REQUIRED.
- 15. DEMOLITION CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR AND MAKE GOOD ALL DAMAGE TO ADJACENT FINISHED SURFACES AND ASSEMBLIES.
- 6. CONTRACTOR TO ENSURE ALL EXIT SIGNAGE TO REMAIN AS INSTALLED AND ENSURE
- FIXTURES ARE OPERATIONAL. CONTRACTOR TO PROVIDE RE-SUPPORT AS REQUIRED. 17. CONTRACTOR TO ENSURE ALL EMERGENCY LIGHT FIXTURES, CONNECTED TO EMERGENCY STANDBY GENERATOR, TO REMAIN FUNCTIONAL ALONG EGRESS ROUTES.
- 8. CONTRACTOR TO MAINTAIN BATTERY POWERED CEILING RECESSED LIGHTING HEADS AND PROVIDE RE-SUPPORT AS REQUIRED.
- 19. CONTRACTOR TO ENSURE ALL MANUAL PULL STATIONS AND FIRE ALARM BELLS REMAIN OPERATIONAL. IF A DEVICE MUST BE REMOVED DUE TO IN-SLAB CONDUIT, ETC., THE DEVICE MUST BE PROPERLY DE-PROGRAMMED BY QUALIFIED PERSONNEL AND REACTIVATED AT END OF WORKING DAY
- 20. CONTRACTOR TO PROTECT AND SUPPORT ALL EXISTING HEAT AND SMOKE DETECTORS DURING DEMOLITION. COORDINATE ANY NECESSARY REMOVALS WITH THE PROJECT MANAGER AND FIRE ALARM CONTRACTOR.
- 21. CONTRACTOR TO PROVIDE TEMPORARY PARTITIONS AS REQUIRED TO CONTROL DUST, NOISE AND FUME MIGRATION INTO ADJACENT SPACES.

### E. MATERIALS

TABI F

- 1. STRUCTURAL CONCRETE: 1.1. CONCRETE: CONFORMING TO CSA A23.1 AND PER THE CONCRETE DESIGN PROPERTIES
- 1.2. REINFORCING BARS: CONFORMING TO CSA G30.18, GRADE 400R (OR 400W WHERE WELDING IS REQUIRED). ALL REINFORCING TO BE BLACK STEEL UNLESS NOTED.
- 1.3 WELDED WIRE REINFORCING CONFORMING TO ASTM A185/A185M WITH MINIMUM YIELD STRENGTH OF 450 MPa. OR 386 MPa FOR DIAMETERS LESS THAN MW7.7 (3.1mm).
- 1.4. MECHANICAL COUPLERS: LENTON TAPER-THREADED, FORM SAVER, SPEED SLEEVE OR LOCK BY ERICO, OR APPROVED ALTERNATE.
- 1.5. MECHANICAL END ANCHORS: LENTON TERMINATOR BY ERICO, OR APPROVED ALTERNAT 1.6. POST-INSTALLED WEDGE ANCHORS: KWIK BOLT TZ, ZINC PLATED CARBON STEEL, BY HI OR APPROVED ALTERNATE, UNLESS NOTED OTHERWISE.
- 1.7. POST-INSTALLED SCREW ANCHORS: KWIK HUS, ZINC PLATED CARBON STEEL, BY HILTI, APPROVED ALTERNATE, UNLESS NOTED OTHERWISE 1.8. POST-INSTALLED ADHESIVE ANCHORS: HAS THREADED RODS, ZINC PLATED CARBON
- STEEL, WITH HIT-HY 200 ADHESIVE BY HILTI, OR APPROVED ALTERNATE, UNLESS NOTED OTHERWISE
- STRUCTURAL STEEL: 2.1. ROLLED W AND WWF SHAPES
- 2.2. CHANNELS AND ANGLES 2.3. HSS SHAPES
- 2.4. PLATES, RODS AND BARS 2.5 STRUCTURAL BOLTS
- 2.6. NUTS AND WASHERS 2.7. ANCHOR RODS (THREADED ROD)
- 2.8. ANCHOR RODS (HEX HEAD) 2.9. WELDING ELECTRODES
- 2.10.HEADED STUDS: CONFORMING TO AWS D1.1, MILD STEEL TO ASTM A108 GRADE 1010 THROUGH 1020, TYPE S3L OR H4L BY NELSON, OR APPROVED ALTERNATE. 2.11.DEFORMED BAR ANCHORS: FLUX-FILLED, TYPE D2L BY NELSON, OR APPROVED ALTERNATE

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- STEEL DECK: CONFORMING TO ASTM A653/A653M OR ASTM A792/A792M (GRADE 230), GALVANNEALED FINISH UNLESS NOTED OTHERWISE.
- STRUCTURAL MASONRY 4.1. CONCRETE MASONRY UNITS: CONFORMING TO CSA 165, 15 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
- 4.2. MASONRY GROUT: CONFORMING TO CSA 179, 15 MPa MINIMUM COMPRESSIVE STRENGT AT 28 DAYS, 10mm (3/8") MAXIMUM AGGREGATE SIZE, 250 mm (10") SLUMP 4.3. MORTAR: CONFORMING TO CSA 179, TYPE S FOR LOAD BEARING WALLS, TYPE N
- OTHERWISE 4.4. MASONRY TIES: CONFORMING TO CSA A370. 4.5. REINFORCING BARS: CONFORMING TO CSA G30.18, GRADE 400R (OR 400W WHERE
- WELDING IS REQUIRED). ALL REINFORCING TO BE BLACK STEEL UNLESS NOTED. 4.6. BED JOINT REINFORCING: LADDER TYPE, SIDE RODS CONFORMING TO ASTM A82, HOT-DIPPED GALVANIZED UNLESS NOTED, TYPE BL BY BLOK-LOK OR APPROVED ALTERNATE
- 5. NON-SHRINK GROUT: NON-METALLIC, 35 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
- F. FOUNDATIONS AND EARTHWORKS
- CONFIRM LOCATION OF ALL OVERHEAD AND UNDERGROUND SERVICES PRIOR TO EXCAVATING, AND NOTIFY CONSULTANTS OF ANY CONFLICTS. PROVIDE PROTECTION AS REQUIRED TO EXISTING SERVICES.
- 2. THE FOUNDATIONS DESIGNED ARE BASED ON THE INFORMATION PROVIDED IN THE RECORD DRAWINGS CONSTRUCT FOOTINGS ON UNDISTURBED NATIVE SOIL AS DESCRIBED IN THE RECORD
- DRAWINGS, WITH A MINIMUM BEARING CAPACITY OF 215 kPa SLS AND 315 kPa ULS. BEARING SURFACES SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE PLACING FOUNDATION CONCRETE.
- 4. THE VERTICAL MODULUS OF SUBGRADE REACTION USED TO DESIGN RAFT FOUNDATIONS IS MPa/m
- 5. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED ON THE SUBSURFACE CONDITIONS GIVEN IN THE RECORD DRAWAINGS. NOTIFY THE CONSULTANT IF SITE CONDITIONS ENCOUNTERED AT THE SPECIFIED BEARING ELEVATIONS ARE NOT SUITABLE F THE FOUNDATIONS, ADJUST FOOTING ELEVATIONS OR SUB-EXCAVATE AND REPLACE WITH APPROVED MATERIAL TO SUIT SITE CONDITIONS, AS DIRECTED TO THE GEOTECHNICAL FNGINFFR
- 6. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS, OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. MAXIMUM STEP SHALL BE 600
- 7. MATCH EXISTING FOUNDING ELEVATIONS WHERE NEW FOOTINGS ARE CONSTRUCTED ADJACENT TO EXISTING FOUNDATIONS, UNLESS NOTED OTHERWISE. 8. KEEP EXCAVATIONS FREE OF WATER.
- 9. PROTECT FOUNDATIONS FOOTINGS AND BEARING MATERIAL EXPOSED TO FROST ACTION DURING CONSTRUCTION WITH 1200 (4'-0") OF EARTH OR EQUIVALENT. DO NOT POUR CONCRETE AGAINST FROZEN EARTH.
- 10. PROTECT EXISTING ADJACENT STRUCTURES AND SUBGRADE FROM DAMAGE OR N. PROVIDE UNDERPINNING OR TEMPORARY SHORIN WHERE NECESSARY TO PERFORM THE WORK. 11 DO NOT BACKEILL AGAINST WALLS RETAINING FARTH FLEMENTS (OTHER THAN CANTILEVER
- WALLS AT FULL DESIGN STRENGTH) UNTIL SUPPORTING FLOORS AND CROSS-WALLS ARE A FULL DESIGN STRENGTH ERECTED, UNLESS ADEQUATE SHORING IS PROVIDED. 12. BACKFILL EVENLY ON BOTH SIDES OF FOUNDATION WALLS IN A MANNER SO THAT THE
- JNBALANCED HEIGHT MATERIAL PLACED ON ONE SIDE DOES NOT EXCEED 600 (2'-0").
- 13. USE HAND-OPERATED EQUIPMENT ONLY TO COMPACT SUBGRADE WITHIN 1800 (6'-0") OF FOUNDATION WALLS. USE OF HEAVY EQUIPMENT WITHIN THIS DISTANCE IS NOT PERMITTED
- 14. EARTH-FORMED FOUNDATIONS ARE NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OF APPROVED BY THE CONSULTANT IN WRITING. PROVIDE MINIMUM 75 (3") COVER TO REINFORCING FOR EARTH FORMED SURFACES.
- 15. STOCKPILE EXCAVATED MATERIAL ON-SITE AS DIRECTED, AND REMOVE AND DISPOSE OF ALI MATERIAL THAT IS CONTAMINATED, UNSUITABLE FOR RE-USE, OR IN EXCESS OF THE WORK.
- 16. SLAB-ON-GRADE CONSTRUCT SLAB-ON-GRADE ON MATERIAL CAPABLE OF SUSTAINING BEARING 16.1. PRESSURES OF 25 kPa SLS WITHOUT SETTLEMENT. BEARING SURFACES SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE PLACING FOUNDATION CONCRETE.

- CSA-G40.20/G40.21, GRADE 350W CSA-G40.20/G40.21, GRADE 350W CSA-G40.20/G40.21. GRADE 350W CLASS CSA-G40.20/G40.21, GRADE 300W ASTM A325/A325M ASTM A563/A563M AND ASTM F436/436M CSA-G40.20/G40.21, GRADE 300W



	J.	STRUCTURAL MASONRY
	1.	PERFORM WORK IN ACCORDANCE WITH CSA A371.
	2.	REFER TO THE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING MASONRY PARTITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE MINIMUM REINFORCING AND LINTELS IN NON-LOAD BEARING MASONRY WALLS PER SCHEDULES ON THE STRUCTURAL DRAWINGS. THESE WALLS AND LINTELS ARE NOT DETAILED ON THE STRUCTURAL DRAWINGS.
TE. LTI,	3.	PROVIDE CONTROL JOINTS PER THE SPECIFICATION, AND IS INDICATED ON THE ARCHITECTURAL DRAWINGS. MAXIMUM SPACING OF CONTROL JOINTS TO BE 7650 (25'-0") UNLESS NOTED OTHERWISE.
OR	4.	FILL MASONRY UNITS WITH GROUT AS FOLLOWS: 4.1. ALL CELLS CONTAINING REINFORCING. 4.2. ALL CELLS CONTAINING DOWELS, ANCHORS, OR OTHER STRUCTURAL CONNECTORS. 4.3. ALL CELLS IN PARAPETS. 4.4. CELLS BELOW BEARING CONNECTIONS PER STRUCTURAL DRAWINGS. 4.5. AS INDICATED ON THE STRUCTURAL DRAWINGS.
	5.	PROVIDE CLEANOUTS AT BASE OF WALL LIFTS TO VERIFY PROPER PLACEMENT OF GROUT.
C	6.	PLACE GROUT IN MAXIMUM 3000 (10'-0") LIFTS. THE MAXIMUM LIFT HEIGHT IS REDUCED TO 1500 (5'-0") IF NO CLEANOUTS ARE PROVIDED.
	7.	TERMINATE GROUT PLACEMENT 25 (1") BELOW TOP OF UPPER UNIT FOR HORIZONTAL CONSTRUCTION JOINTS IN GROUTED BLOCK CELLS. HORIZONTAL CONSTRUCTION JOINTS ARE REQUIRED WHERE GROUT PLACEMENT IS INTERRUPTED FOR A DURATION OF GREATER THAN 1 HOUR.
	8.	BUILD MASONRY TIGHTLY INTO WEBS OF STEEL BEAMS BEARING ON WALLS, WEBS OF STEEL COLUMNS AND AROUND JOIST SHOES, UNLESS NOTED OTHERWISE.
	9.	ENSURE THAT EMBEDDED ITEMS DO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE MASONRY WALL OR IMPACT PLACEMENT OF REINFORCING.
	10.	PROVIDE TEMPORARY BRACING TO MAINTAIN STABILITY OF WALLS UNTIL HORIZONTAL SUPPORTING ELEMENTS ARE IN-PLACE.
H	11.	<ul> <li>BEARING SUPPORTS:</li> <li>11.1.PROVIDE MINIMUM 400 (16") DEEP SOLID OR GROUT-FILLED MASONRY UNITS BELOW STEEL AND CONCRETE BEAMS, JOISTS AND TRUSSES AT BEARING LOCATIONS, PROJECTING AT LEAST 200 (8") BEYOND EDGE OF BEARING PLATES.</li> <li>11.2.PROVIDE MINIMUM 200 (8") DEEP SOLID OR GROUT-FILLED MASONRY UNITS BELOW MASONRY, CONCRETE AND STEEL LINTELS AT BEARING LOCATIONS, PROJECTING AT LEAST 150 (6") BEYOND EDGE OF BEARING PLATES.</li> <li>11.3.PROVIDE MINIMUM 200 (8") DEEP SOLID OR GROUT-FILLED MASONRY UNITS BELOW CONCRETE SLABS OR STEEL DECK CONTINUOUSLY ALONG BEARING LOCATIONS.</li> </ul>
8.	12.	NON-LOAD BEARING WALLS: 12.1.PROVIDE THE MINIMUM REINFORCING SHOWN IN THE NON-LOAD BEARING MASONRY WALL REINFORCING TABLE. 12.2.PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE DRAWINGS AND TYPICAL DETAILS.
)	14.	<ul> <li>MASONRY REINFORCING:</li> <li>13.1. PROVIDE MASONRY REINFORCING WHERE INDICATED ON THE DRAWINGS, TYPICAL DETAILS AND SPECIFICATIONS.</li> <li>13.2. PROVIDE REINFORCING BAR EMBEDMENT AND LAP SPLICES IN ACCORDANCE WITH CSA, AND NOT LESS THAN THE VALUES IN THE MASONRY REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS TABLE.</li> <li>13.3. ALL TENSION LAP SPLICES ARE CLASS B UNLESS NOTED OTHERWISE.</li> </ul>
6		<ol> <li>13.4. LAP BED JOINT REINFORCING MINIMUM 300 (12").</li> <li>13.5. PROVIDE DOWELS IN CONCRETE FOUNDATIONS TO MATCH SPECIFIED VERTICAL REINFORCING IN MASONRY WALLS.</li> <li>13.6. PROVIDE 1-15M VERTICAL BAR EACH SIDE OF CONTROL JOINTS, FULL HEIGHT.</li> <li>13.7. KEEP CELLS CONTAINING REINFORCING FREE FROM MORTAR DROPPINGS.</li> </ol>
8 OR	14.	<ul> <li>LINTELS:</li> <li>14.1. PROVIDE LINTELS OVER ALL OPENINGS THROUGH MASONRY WALLS SHOWN ON THE ARCHITECTURAL DRAWINGS, AND AS REQUIRED FOR MECHANICAL AND ELECTRICAL TRADES.</li> <li>14.2. PROVIDE STEEL LINTELS UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS.</li> <li>14.3. REFER TO THE STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS TABLE FOR LINTEL REQUIREMENTS FOR ALL NON-LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.</li> <li>14.4. REFER TO THE STRUCTURAL DRAWINGS AND STEEL LINTEL SCHEDULE FOR LOAD BEARING MASONRY WALLS FOR LINTEL REQUIREMENTS FOR ALL LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.</li> </ul>
		STRUCTURAL STEEL
	1.	PERFORM WORK IN ACCORDANCE WITH CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE.
G RED	2.	CONNECTIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS TO INDICATE DESIGN INTENT. ALL CONNECTIONS ARE BEARING TYPE WITH A MINIMUM OF 2-19 (3/4") Ø BOLTS UNLESS NOTED OTHERWISE.
Г ). २	3.	<ul> <li>DESIGN CONNECTIONS FOR FORCES INDICATED ON THE STRUCTURAL DRAWINGS. WHERE CONNECTION FORCES ARE NOT PROVIDED, DESIGN CONNECTIONS FOR THE FOLLOWING FORCES:</li> <li>3.1. FACTORED SHEAR FORCE OF 50% OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOAD FOR LATERALLY SUPPORTED BEAMS LISTED IN THE BEAM LOAD TABLES OF THE CISC HANDBOOK OF STEEL CONSTRUCTION FOR END CONNECTIONS OF SIMPLY SUPPORTED NON-COMPOSITE BEAMS.</li> <li>3.2. FACTORED FORCES PER THE COMPOSITE STEEL BEAM CONNECTION FORCE SCHEDULE FOR COMPOSITE BEAMS.</li> <li>3.3. FULL-MOMENT CAPACITY OF SMALLEST MEMBER JOINED FOR MOMENT CONNECTIONS. NOTE "STUB" DENOTES A MOMENT CONNECTION FOR CANTILEVER MEMBER.</li> <li>3.4. FULL CROSS-SECTIONAL CAPACITY OF MEMBER AT SPLICE LOCATIONS.</li> </ul>
_L	4.	PROVIDE MINIMUM 10 (3/8") BEAM WEB STIFFENER PLATES (BOTH SIDES) AT ALL CONCENTRATED LOAD POINTS, INCLUDING BEAMS RUNNING OVER OR SUPPORTING COLUMNS.
	5.	PROVIDE 50 (2") NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES UNLESS NOTED OTHERWISE.
	6.	OBTAIN CONSULTANT'S PERMISSION TO SPLICE MEMBERS, OTHER THAN AT LOCATIONS INDICATED ON THE DRAWINGS.
	7.	PROVIDE 13 (1/2") Ø WEEP HOLES AT TOP AND BOTTOM OF HSS COLUMNS.
	8	ALL EXPOSED EXTERIOR STEEL TO BE HOT-DIPPED GALVANIZED. TOUCH-UP FIELD WELDS WITH TWO COATS OF ZRC 221 COLD GALVANIZING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
	9.	REFER TO ARCHITECTURAL DRAWINGS FOR STAIRS, LADDERS, HANDRAILS, PLATFORMS, AND OTHER ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS.
	10.	PROVIDE FIRE PROTECTION FOR STRUCTURAL STEEL IN ACCORDANCE WITH THE ARCHITECTURAL REQUIREMENTS. PROVIDE COMPATIBLE COATINGS OR SURFACE PREPARATION FOR STEEL MEMBERS TO FIRE-SPRAYED OR COATED WITH INTUMESCENT PAINT.
	11.	DETAIL GUSSET PLATES TO AVOID INTERFERENCES WITH ARCHITECTURAL FINISHES, SHAFT CLEARANCES, MECHANICAL AND ELECTRICAL SERVICES AND THE LIKE.
		ALL BOLTS ARE TO BE INSTALLED SNUG-TIGHT, AS DEFINED IN CSA S16.
		MINIMUM BEARING LENGTH FOR STEEL BEAMS AND JOISTS ON CONCRETE OR MASONRY IS 200 (8") AND ON STRUCTURAL STEEL IS 100 (4"). UNLESS NOTED OTHERWISE.
	14.	PROVIDE ADEQUATE SUPPORTS FOR BEARING OF STEEL DECK AT CONNECTIONS, COLUMNS OR OTHER IRREGULARITIES OR DETAILS WHERE THE DECK IS UNABLE TO BEAR ON THE PRIMARY SUPPORTING MEMBERS.
	15.	PROVIDE CAP PLATES AT TOP OF ALL HSS COLUMNS, MINIMUM 6.4 (1/4") THICK. DESIGN CAP PLATES FOR CONNECTION LOADS WHERE APPLICABLE

- 16. PROVIDE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO MEET THE REQUIREMENTS OF THE CISC CODE OF STANDARD PRACTICE APPENDIX I WHERE INDICATED. 17. GRIND SMOOTH ALL WELDS AND FLAME-CUT EDGES EXPOSED TO VIEW.
- 18. PERFORM WELDING IN ACCORDANCE WITH CSA W59 AND CSA-S16 USING WELDERS CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA W47.1 DIVISION 1 OR 2.

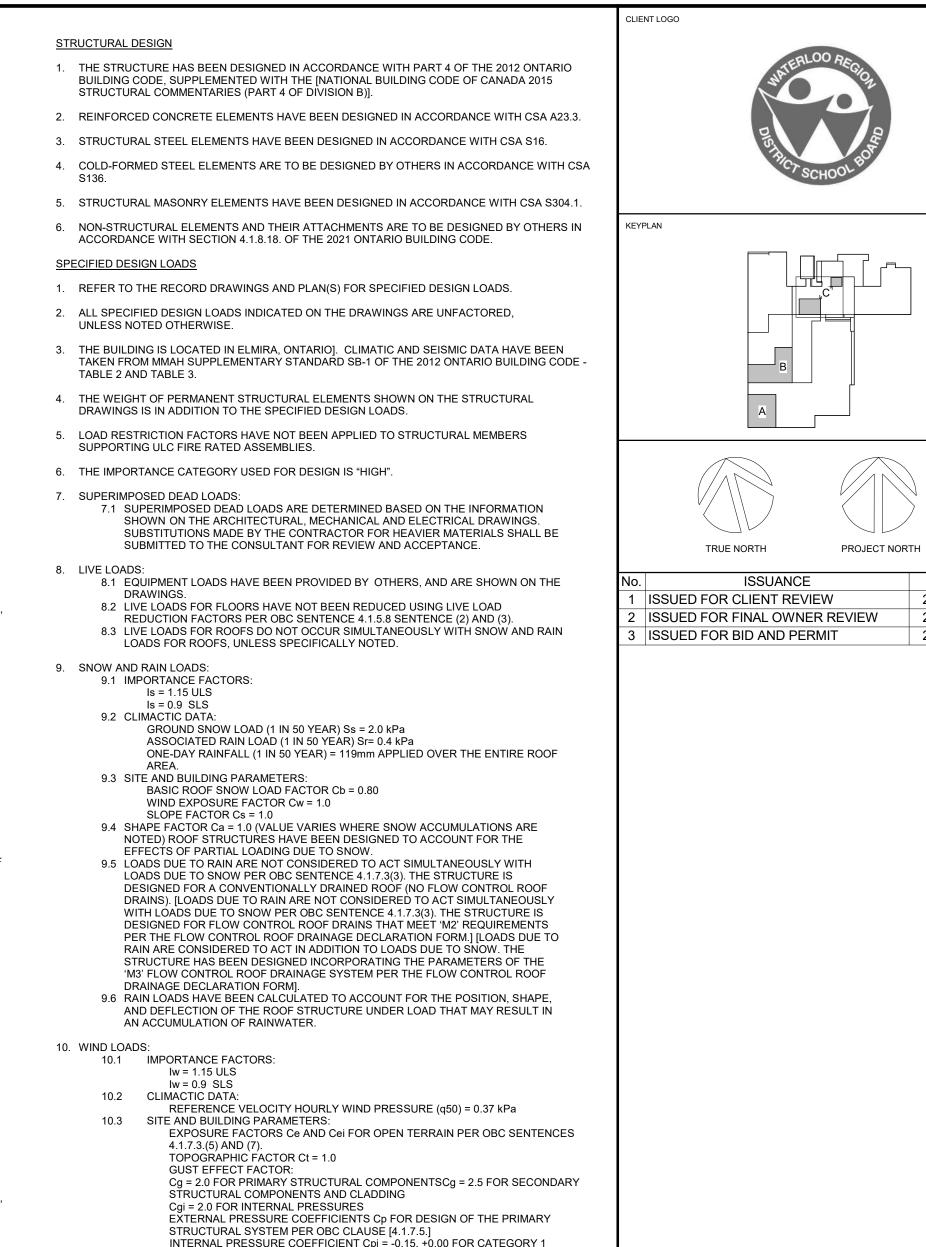
- L. STEEL DECK
- 1. DESIGN STEEL DECK AND CONNECTIONS FOR THE SPECIFIED LOADS AND REQUIREMENTS IN ACCORDANCE WITH CSA-S136.
- 2. PROVIDE MINIMUM DECK THICKNESS SHOWN ON THE DRAWINGS. INCREASE THICKNESS AS NECESSARY TO SUPPORT THE SPECIFIED LOADS.
- 3. BASIS OF DESIGN DECK PROFILES: 38 (1 1/2") ROOF DECK
- 4. DECK WITH SIMILAR PROFILES AND STRUCTURAL PROPERTIES TO THE BASIS OF DESIGN DECK MAY BE ACCEPTABLE, SUBJECT TO REVIEW BY THE CONSULTANT. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND IMPACTS RESULTING FROM CHANGES IN DECK PROFILE THAT AFFECT STRUCTURAL PERFORMANCE AND CONCRETE QUANTITIES.

P-3615 BY CANAM

- 5. PROVIDE COMPOSITE STEEL DECK IN ALL AREAS RECEIVING A TOPPING SLAB, UNLESS DECK IS INDICATED TO BE FORMWORK ONLY.
- 6. DETAIL DECK TO BE CONTINUOUS OVER 3 SPANS WHERE STRUCTURAL FRAMING PERMITS.
- THE STEEL DECK ON THIS PROJECT ACTS AS A "SEMI-FLEXIBLE" DIAPHRAGM FOR DISTRIBUTION OF WIND AND EARTHQUAKE FORCES. DESIGN DECK AND CONNECTIONS TO PROVIDE MINIMUM DIAPHRAGM SHEAR STIFFNESS FACTOR "G" OF 2.5 kN/mm (14.3 kip/in).
- WHERE CONCRETE-FILLED DECK IS SPECIFIED, PROVIDE 1.21 (18ga) POUR STOPS ALL AROUND PERIMETER OF DECK EXCEPT WHERE STRUCTURAL STEEL CLOSURES ARE SPECIFIED, AND PROVIDE 1.21 (18ga) CLOSURE STRIPS AT INTERIOR OPENINGS AND PENETRATIONS, IN ORDER TO SUPPORT AND RETAIN THE CONCRETE TOPPING DURING PLACEMENT WITHOUT ANY ADDITIONAL FORMWORK
- 9. REFER TO THE STEEL FASTENING SCHEDULE FOR CONNECTION REQUIREMENTS.
- P. GENERAL REVIEW
- WALTERFEDY WILL PERFORM PERIODIC FIELD REVIEWS OF A REPRESENTATIVE SAMPLE OF THE WORK TO CONFIRM THAT THE WORK FOR WHICH WE ARE RESPONSIBLE IS IN GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- GENERAL REVIEW OF WORK DESIGNED BY OTHER PROFESSIONAL ENGINEERS (STAMPED SHOP DRAWINGS) IS TO BE PERFORMED BY THE ENGINEER RESPONSIBLE FOR THAT DESIGN. SUBMIT FIELD REVIEW REPORTS TO THE CONSULTANT
- 3. COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING AGENCIES RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS REQUIRED FOR THE SAFE PERFORMANCE OF THEIR WORK.
- 4. PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPLETED WORK, PRIOR TO CONCEALING OR ATTACHING TO THE WORK.
- 5. FIELD REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DOCUMENTS.

### Q. SUBMITTALS

- 1. SUBMIT THE FOLLOWING ERECTION AND FABRICATION SHOP DRAWINGS TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION. 1.1 CONCRETE REINFORCING BARS
- 1.2. CONCRETE MIX DESIGN 1.3. MASONRY
- 1.4. STRUCTURAL STEEL **1.5. MASONRY INSTALLATION**
- 1.6. STEEL ERECTION AND CONNECTION DESIGN 1.7. STEEL GURAD CONNECTION AND DESIGN 1.8. ALL TESTING AND FIELD REPORTS PREFORMED BY OTHERS
- SHOP DRAWINGS WILL BE REVIEWED SOLELY TO ASCERTAIN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT. THE CONSULTANT'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWING OR RESPONSIBILITY FOR MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- R. TESTING AND INSPECTION 1. AN INDEPENDENT TESTING AND INSPECTION COMPANY WILL BE RETAINED ON BEHALF OF THE OWNER TO PERFORM QUALITY ASSURANCE VERIFICATION OF THE WORK. COORDINATE TESTING AND INSPECTION OF THE WORK, AND ENSURE COPIES OF ALL INSPECTION REPORTS ARE DISTRIBUTED TO THE CONSULTANT AND OWNER IN A TIMELY MANNER.
- COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING AGENCIES RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS REQUIRED FOR THE SAFE PERFORMANCE OF THEIR WORK.
- TO ENSURE THAT FIELD REVIEWS OCCUR AT THE APPROPRIATE STAGE OF THE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WALTERFEDY WITH A CONSTRUCTION SCHEDULE PRIOR TO STARTING THE WORK, PERIODIC PROGRESS UPDATES, AND AT LEAST 48 HOURS NOTICE FOR SITE VISITS FOR THE FOLLOWING WORK 3.1. PLACEMENT OF INSULATION AND REBAR PRIOR TO PLACING CONCRETE.
- 4. TESTING AND INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING: 4.1. SUBGRADE BEARING CAPACITY 4.2. SUBGRADE COMPACTION 4.3. REINFORCING STEEL PLACEMENT 4.4. PLASTIC CONCRETE PROPERTIES
- 4.5. CONCRETE COMPRESSIVE STRENGTH
- PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPLETED WORK, PRIOR TO CONCEALING OR ATTACHING TO THE WORK
- FIELD REVIEW, TESTING AND INSPECTION DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DOCUMENTS.



10.4 THE STRUCTURE HAS BEEN DESIGNED FOR ACCOUNT FOR FULL AND PARTIAL

WIND LOADING.

# WATERLOO REGIOON DISTRICT SCHOOL BOARD

DATE

2024-01-15

2024-02-06

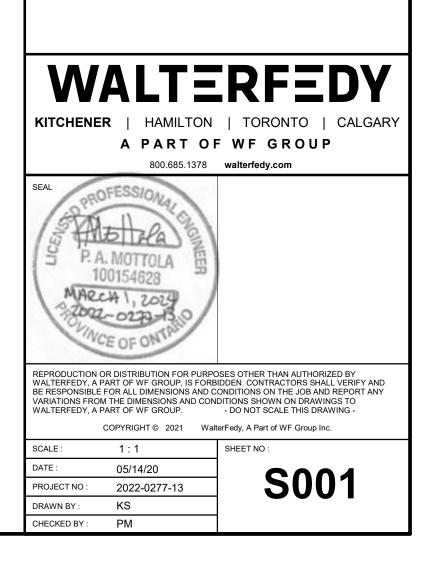
2024-03-01

ROJECT

### WRDSB EDSS RENOVATIONS

4 University Ave. East, Elmira, Ontario, N3B 1K2

GENERAL NOTES



	C	-		ORCING EMB PLICE LENGT				S002
CONCRETE STRENGTH	MINIMUM TENSION EMBEDMENT			MINIMUM COMPRESSION EMBEDMENT	MINIMUM TI SPI	MINIMUM COMPRESSIC LAP SPLICE		
BAR SIZE	25MPa	30MPa	35MPa		25MPa	30MPa	35MPa	
TOP BARS								
10M	400mm	375mm	350mm	250mm	550mm	500mm	450mm	350mm
	(16")	(15")	(14")	(10")	(22")	(20")	(18")	(14")
15M	600mm	550mm	525mm	350mm	775mm	700mm	650mm	500mm
	(24")	(22")	(21")	(14")	(31")	(28")	(26")	(20")
20M	800mm	750mm	700mm	400mm	1025mm	925mm	850mm	600mm
	(32")	(30")	(28")	(16")	(41")	(37")	(34")	(24")
25M	1200mm	1100mm	1025mm	500mm	1550mm	1425mm	1325mm	750mm
	(48")	(44")	(41")	(20")	(62")	(57")	(53")	(30")
30M	1450mm	1225mm	1150mm	600mm	1850mm	1700mm	1600mm	900mm
	(58")	(49")	(46")	(24")	(78")	(68")	(64")	(36")
35M	1675mm	1550mm	1325mm	700mm	2150mm	2000mm	1850mm	1050mm
	(67")	(62")	(53")	(28")	(86")	(80")	(78")	(42")
BOTTOM BARS								
10M	300mm	300mm	300mm	250mm	400mm	400mm	400mm	400mm
	(12")	(12")	(12")	(10")	(16")	(16")	(16")	(16")
15M	450mm	400mm	400mm	350mm	600mm	600mm	600mm	450mm
	(18")	(16")	(16")	(14")	(24")	(24")	(24")	(18")
20M	600mm	550mm	500mm	400mm	800mm	800mm	800mm	600mm
	(24")	(22")	(20")	(16")	(32")	(32")	(32")	(24")
25M	950mm	850mm	800mm	500mm	1200mm	1100mm	1000mm	750mm
	(38")	(34")	(32")	(20")	(48")	(44")	(40")	(30")
30M	1100mm	1000mm	950mm	600mm	1450mm	1300mm	1200mm	900mm
	(44")	(40")	(38")	(24")	(58")	(52")	(48")	(36")
35M	1300mm	1200mm	1100mm	750mm	1650mm	1500mm	1400mm	1050mm
	(52")	(48")	(44")	(30")	(66")	(60")	(56")	(42")

### NON-LOAD BEARING MASONRY WALL LOCATION VERTICAL S THICKNESS REINF. INTERIOR PARTITION N/A

140 190 INTERIOR PARTITION 1-15M 190 EXTERIOR 1-15M NOTES: PROVIDE REINFORCING FOR CONCRETE MASONRY WALLS AS PER THE SCHEDULE UNLESS NOTED OTHERWISE. PROVIDE DOWELS INTO CONCRETE FOUNDATIONS AND SLAB THICKENINGS TO MATCH VERTICAL WALL REINFORCEMENT. UNLESS NOTED OTHERWISE. REFER TO TYPICAL DETAILS FOR ADDITIONAL SUPPORT REQUIREMENTS.

STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS									
LINTEL TYPE WALL THK. MAXIMUM OPENING SIZE	MAXIMUM HEIGHT ABOVE OPENING	90 VENEER	140mm	190mm	240mm	290mm			
UP TO 1200mm		L89x89x6.4	(2) L89x64x6.4	(2) L89x89x6.4	L102x76x6.4 LLH + L127x76x6.4 LLH	(3) L89x89x6.4			
1200mm TO 1800mm		L102x89x7.9	(2) L89x64x7.9	(2) L102x89x7.9	L102x102x6.4 + L127x76x6.4 LLH	(3) L102x89x7.9			
1800mm TO 2400mm		L127x89x7.9	(2) L89x64x9.5	(2) L127x89x7.9	L102x102x7.9 + L127x76x7.9 LLH	(3) L127x89x7.9			
2400mm TO 3000mm		L152x89x9.5	(2) L89x64x9.5	(2) L152x89x9.5	L152x102x9.5 LLV + L127x127x9.5	(3) L152x89x9.5			

NOTES: ALL ANGLE LINTELS TO HAVE THE LONG LEG VERTICAL (LLV) UNLESS NOTED OTHERWISE.
 LINTELS TO HAVE A MINIMUM OF 150mm (6") OF BEARING ON EACH SIDE OF THE OPENING. LINTELS TO BEAR ON GROUT FILLED OR SOLID CONCRETE BLOCK. PROVIDE SHINS AS REQUIRED FOR LEVELING. BACK TO BACK ANGLES SHALL BE WELDED USING 6mmx50mm LONG WELDS AT 450mm ON CENTER ALONG THE TOES AND HEELS. FOR LINTELS ABUTTING STEEL COLUMNS, SUPPORT WITH A L102x102x9.5 WELED TO THE COLUMN. FOR LINTELS ABUTTING CONCRETE COLUMNS OR WALLS, SUPPORT WITH A L102x102x9.5 LAGGED TO THE CONCRETE USING (2) 19mm DIAMETER EXPANSION ANCHORS WITH 150mm EMBEDMENT.

STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

NOTES:

PROVIDE "TOP BAR" SPLICES AND EMBEDMENTS FOR HORIZONTAL BARS WHERE MORE THAN 300mm (12") OF FRESH CONCRETE IS CAST BELOW THE SPLICE.
 TABULATED VALUES APPLY TO UNCOATED BARS IN NORMAL DENSITY CONCRETE. FOR COATED BARS AND STRUCTURAL LOW DENSITY CONCRETE, APPLY FACTORS AS PER CSA A23.3
 TABULATED VALUES APPLY TO REINFORCING BARS WITH CLEAR COVER GREATER THAN 1.0db AND CLEAR

SPACING NOT LESS THAN 1.4dbIN BEAMS OR COLUMNS, OR 2.0db IN SLABS.

CONCRETE DESIGN PROPERTIES									
ELEMENT	LOCATION	COMPRESSIVE STRENGTH (MPa)	EXPOSURE CLASS	CHLORIDE EXPOSURE	FREEZE/ THAW EXPOSURE	REM	IARKS		
FOOTINGS		30	N	NO	NO				
SLAB-ON-GRADE	INTERIOR	25	N-CF	NO	NO		LEMENTARY NG MATERIEALS		
FOUNDATION WALLS	INTERIOR	30	N	NO	NO				
SLAB-ON-GRADE	INTERIOR	25	N-CF	NO	NO		LEMENTARY NG MATERIEALS		

NOTES:

USE HIGHEST STRENGTH AND MOST-SEVERE EXPOSURE CONDITION WHERE MULTIPLE CONDITIONS ARE APPLICABLE. COMPRESSIVE STRENGTH DENOTED IS A MINIMUM VALUE AT 28 DAYS, UNLESS NOTED OTHERWISE.

MINIMUM COMPRESSIVE STRENGTH IS AT 56 DAYS. SEE SPECIFICATION 03 30 00 FOR ADDITIONAL CONCRETE REQUIREMENTS.

ALL CONCRETE MIXES TO BE PROPORTIONED AS NORMAL DENSITY CONCRETE, UNLESS NOTED OTHERWISE. TABULATED VALUE IS THE MINIMUM COMPRESSIVE STRENGTH. REFER TO CONCRETE COLUMN SCHEDULE AND WALL

ELEVATIONS FOR ADDITIONAL DESIGN STRENGTH REQUIREMENTS. NOMINAL AGGREGATE SIZE IS 20mm (3/4") UNLESS NOTED OTHERWISE.

			[					
Y WALL	REINFORCI	NG	S002					
SPACING	MAXIMUM HEIGHT	HORIZONTAL REINF.						
N/A	N/A	BLOK-LOK BL-10 X-	HEAVY @ 400					
1200	1-15M	BLOK-LOK BL-10 ST	D @ 200					
800	1-15M	BLOK-LOK BL-10 X-	HEAVY @ 200					

RTNRETURNRWLRAIN WATER LEADER2ISSUED FOR FINAL OWNER REVIEW2024-02-06	GRITY REINFORCEMENT BRACE PLATE GLENGTH) HAND SIDE (END) GLEGS BACK TO BACK GLEG HORIZONTAL GLEG VERTICAL POINT GSIDE HORIZONTAL GSIDE HORIZONTAL GSIDE VERTICAL MUM ENT CONNECTION HANICAL DOCUMENTS / CONSULTANT ANINE DEPTH (MIDDLE) AUM H-SOUTH GRACE N CONTRACT GSIDE TO SCALE ENTRE TO OUT GIDE DIAMETER RHEAD NING DSITE SIDE / HAND ING DSITE SIDE / HAND ING DOWN (REVISED) RIGHT HAND SIDE (END) GION (REVISED) SIDON (REVISED) RIGHT HAND SIDE (END) GION (REVISED) GION (REVISED) GION (REVISED) GION (REVIS	No. 1 ISSU	TRUE NORTH		
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Number     Riss     Right HAND SIDE (END)     No.     Issuance     Unit       No.     RN     ROUGH OPENING     2024-01-00       NOINT     SA     SHELP ANGLE     2024-01-00       DOCUMENTS / CONSULTANT     SIM     SIMULAR (TO)     2024-01-00       DOCUMENTS / CONSULTANT     SIM     SIMULAR (TO)     2024-01-00       SIG     SLAB     SHORT LEGS BACK TO BACK     2024-01-00       UCIMARTS / CONSULTANT     SIM     SIMULAR (TO)     2024-03-01       DOCUMENTS / CONSULTANT     SIM     SIMULAR (TO)     2024-03-01       DECK     SS     STAINLESS STEEL     3     ISSUED FOR CILENT REVIEW     2024-03-01       UR     SILAB     SILDING MOW LOAD     3     ISSUED FOR BID AND PERMIT     2024-03-01       PARE     STAGE EFEC     SPECC     SPECC     SPECC     SPECC       STAGE STAGE STRENGTH AT 28 DAYS     SR     STRUCTURAL DOCUMENTS / CONSULTANT     SR       STAGE TO OF OF     T     TEMPERATURE     TEMPERATURE     TEMPERATURE       COMPRESSIVE STRENGTH AT 28 DAYS     SR     STRUCTURAL DOCUMENTS / CONSULTANT     TAGE       GOM     TAGE     TO OF OF     T     TEMPERATURE       TALL STACCTON     TEMPERATURE     TEMPERATURE     THRU THRUGH       GTH <td< td=""><td>RIGHT HAND SIDE (END) GH OPENING IRN WATER LEADER F ANGLE DOWN FOOTING</td><td>1 ISSU</td><td></td><td>FROJECT NOP</td><td></td></td<>	RIGHT HAND SIDE (END) GH OPENING IRN WATER LEADER F ANGLE DOWN FOOTING	1 ISSU		FROJECT NOP	
NO     ROUGH OPENING     1     ISSUED FOR CLIENT REVIEW     2024-01-15       JOINT     SA     SHELF ANGLE     2     ISSUED FOR FINAL OWNER REVIEW     2024-02-05       JOINT     SA     SHELF ANGLE     3     ISSUED FOR FINAL OWNER REVIEW     2024-03-01       DOCUMENTS / CONSULTANT     SUB     SHORT LEGS BACK TO BACK     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     SLAB ON GRADE     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     SLAB ON GRADE     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     SLAB ON GRADE     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     SS     STANDARD     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     SS     STANDARD     STANDARD     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TO BACK     SG     STANDARD     STANDARD     STANDARD     3     ISSUED FOR BID AND PERMIT     2024-03-01       Image: Stab Short LEGS BACK TORNE CONSULTANT     SR     STUD RAIL     STRUCTURAL STELL     THENC THICK THICKNESSION     THE HORDREX TRISION     THE HO	GH OPENING IRN WATER LEADER F ANGLE DOWN FOOTING	1 ISSU	ISSUANCE		DATE
RWL     RAIN WATER LEADER     2     ISSUED FOR FINAL OWNER REVIEW     2024-02-06       SA     SHEF ANCLE     3     ISSUED FOR FINAL OWNER REVIEW     2024-02-06       DOCUMENTS / CONSULTANT     SUB     SHULAR (TO)     2024-03-01       ICMEEDED)     SOG     SLBB ON GRADE     2       SOG     SLBB ON GRADE     SSL     SLDING SNOW LOAD       YATE     SQ     SUDING SNOW LOAD     SSL       YATE     SPEC.     SPECIFICATIONS     STANDARD       STAD.     STANDARD     STANDARD     STANDARD       STRUCTURAL STELL     STUCTURAL STELL     STUCTURAL TEEL       STRUCTURAL DOCUMENTS / CONSULTANT     SR     STUD STANDARD       STRUCTURAL STRUCTURAL DOCUMENTS / CONSULTANT     SR     STUCTURAL STRUCTURAL STRUCTURAL       VI     TEMPERATURE     TEMPERATURE     TEMPERATURE       TOP OF     TANDARD     SR     STUD STANDARD       MENT CONNECTION     SR     STUCTURAL STRUCTURAL STRUCTURAL     SR       TATUS STRUCTURAL STRUCTURAL STRUCTURAL     SR     STUD STANDARD       IGTH     TIS     TEMPERATURE     TEMPERATURE       TATUS STRUCTURAL STRUCTURAL STELL     TYP,     TYPICAL     TYPICAL       IGTH     TIS     TEMSION LAP SPLICE     TIS       ITAL BRACE     WS	WATER LEADER F ANGLE DOWN FOOTING				2024-01-15
JOINT     SA     SHELF ANGLE     3     ISSUED FOR BID AND PERMIT     2024-03-01       DOCUMENTS / CONSULTANT     SIM.     SIMULAR (TO)     30     3     ISSUED FOR BID AND PERMIT     2024-03-01       DOCUMENTS / CONSULTANT     SIMB     SHORT LEGS BACK TO BACK     30     SUBB     SHORT LEGS BACK TO BACK       SUBB     SHORT LEGS BACK TO BACK     SSUBS STAILLESS STEEL     3     ISSUED FOR BID AND PERMIT     2024-03-01       (EMBEDDED)     SG     SLAB ON GRADE     SS     STAINLESS STEEL     SS     STAINLESS STEEL     SS       SIAG     STAGERED     STAGERED     STAGERED     STAGERED     STUD RAIL     STUD RAIL       SIMPRESSIVE STRENGTH AT 28 DAYS     SR     STUD RAIL     STUD RAIL     STUD RAIL     STUD RAIL       Vo     TOP OF     T     TEMPERATURE     TG     TG     TORUPE AGROVE       Vo     TOP OF F     TOP OF CONCRETE     TOP OF CONCRETE     TG     TOP OF CONCRETE     TG       IGTH     TJ     TEMPORARY     THRU THROUGH     TG     TG     TG       IGTH     TJ     TEMPORARY     THRU THROUGH     TG     TG       IGTH     TJ     TENSION LAP SPLICE     TG     TG       INTRACTOR     TYP     TYPICAL     UNDERGROUND     UNDERGR	F ANGLE DOWN FOOTING	2 ISSU	ED FOR FINAL OWN	ER REVIEW	2024-02-06
DOCUMENTS / CONSULTANTSIM.SIMLAR (TO)SLBBSLBBSHOPT LEGS BACK TO BACKSLBBSLBBSLAB ON ORADEDECKSSSTAINLESS STEELDECKSSSUDING SNOW LOADSLABSLUDING SNOW LOADSLABSUDING SNOW LOADSLABSUDING SNOW LOADSLABSQU ARESLAFSPEC.SPEC.SPECIFICATIONSSTAGEREDSTASTRUSTRUCTURAL STEELSOMPRESSIVE STRENGTH AT 28 DAYSSRSTUDSTUD RAILNOMERTICALSTUDTAGTONGUE & GROOVEIGTHTEMPERATURETEMPERATUREIGTHTISIGTHTISIGTHTISIGTHTISIGTHTISIGTHTISIGTHTISIGTHTISIGTATOSIGTATOSIGTATOSIGTATOSIGTATOSIGTATOSIGTATISIGTATISIGTATOSIGTATOSIGTATOSIGTATOSIGTATOSIGTVINDERGROUNDITAL BRACEVISVINDEVINDERGROUNDIGTAVERTICAL BRACEVINDVINDERGROUNDVINDVINDERGROUNDVINDVINDERGROUNDVINDVINDERGROUNDVINDVINDERGROUNDVINDV		3 ISSU	ED FOR BID AND PE	RMIT	2024-03-01
(EMBEDDED)     SUG     SLBB     SHORT LEGS BACK TO BACK       'DECK     SG     SLB ON GRADE       'DECK     SS     STAINLESS STEEL       'SLAB     SQL     SQLARE       'SLAB     SQL     SQLARE       'SLAF     SQL     SQLARE       'SLAF     SQLARE     SQLARE       'SLAF     SQLARE     SPEC.FICATIONS       'STA     STRUCTURAL STEEL     STA       STL     STRUCTURAL DOCUMENTS / CONSULTANT       SOMPRESSIVE STRENGTH AT 28 DAYS     SR     STUD RAIL       'N     TRG     TONGUE & GROOVE       'N     TKG     TONGUE & GROOVE       'N     TKG     TONGUE & GROOVE       'N     TKG     TOP CORDE EXTENSION       'N     TEMP     TEMPORARY       'N     THKU     THROUGH       'I     THEN     THENORARY       'IGTH     TLS     TENSION LAP SPLICE       'NITRACTOR     TOS     TOP OF OR STRUCTURAL STEEL       'NITRACTOR     TOS     TOP OF OR STRUCTURAL STEEL       'N'     UNDERGROUND     UNDERGROUND       ''     UNDERGROUND     ''''''''''''''''''''''''''''''''''''	AR (TO)				
Itemacubel) SS STAINLESS STEEL SECK SS S, SUDARE SUAB SQ SOUARE STAG STAGETRED STA	RT LÈGŚ BACK TO BACK				
SLAB     SSL     SLIDING SNOW LOAD       PLATE     SQLARE       SPEC.     SPECIFICATIONS       STAG     STAGERED       STA     STAGERED       STD     STANDARD       STD     STANDARD       STL     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       SUP     STRUCTURAL STELL       SOMPRESSIVE STRENGTH AT 28 DAYS     SR       STU     STRUCTURAL STELL       STU     TO CONCRETENSION       TUS     TENSION LAP SPLICE       TLA BRACE     UNDERGOUND       VIA     UNDERGROUND       VIA     UNDERGROUND       VIA     VERTICAL BRACE       VIAL SLOTTED CONNECTION     VSC       VERTICAL BRACE     VIA       VIAL SLOTTED CONNECTION     VSC       VERTICALL SLOTTED CONNECTIO					
EATL SPEC. SPECIFICATIONS STAG STAGGERED STD STANDARD STL STRUCTURAL DOCUMENTS / CONSULTANT STRU. STRUCTURAL DOCUMENTS / CONSULTANT STRU. STRUCTURAL DOCUMENTS / CONSULTANT STRU. STRUCTURAL DOCUMENTS / CONSULTANT SR STUD RAIL SR STUD RAIL SR STUD RAIL TAG TONGUE & GROOVE 1 TAG TONGUE & GROOVE 1 TEMPERATURE TCX TOP CHORD EXTENSION MENT CONNECTION MENT CONNECTION MENT CONNECTION TEMP. TEMPORARY THK THICK (THICKNESS) THRU THROUGH TUE JOIST TRUE TOP CF OF CONCRETE 1 TOC TOP OF CONCRETE 1 TOC TOP OF CONCRETE 1 TOC TOP OF STRUCTURAL STEEL 1 TYP. TYPICAL 1 TYPI					
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VioTOP OFTTEMPERATURETCXTOP CHORD EXTENSIONMENT CONNECTIONTEMP.TEMP.TEMPORARYTHKTHICK (THICKNESS)THRUTHOUGHTJTIE JOISTTOCTOP OF CONCRETETOTTOP OF STRUCTURAL STEELTYP.TYPICALu/gUNDERGROUNDUNDERSIDEVV. VERT.VERTICALVERTICALVBRVERTICAL BACEVSCVSCVSCVERTICAL BACEVSCVSCVSCVERTICAL US SIGNTED CONNECTIONING PADWDWDDWODETERWD	/IETRICAL				
TTEMPERATURETCXTOP CHORD EXTENSIONTEMPORARYTEMPORARYTHKTHICK (THICKNESS)THRUTHROUGHIGTHTJTLSTENSION LAP SPLICEMARCETOCUNDOP OF STRUCTURAL STEELTYP.TYPICALu/gUNDERSIDEUNOUNLESS NOTED OTHERWISEVERVERTICAL BRACEVITALLY SLOTTED CONNECTIONVITALLY SLOTTED CONNECTIONW/GWITH UTHWODWOD					
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IGTH TJ TIE JOIST TLS TENSION LAP SPLICE TOC TOP OF CONCRETE TOC TOP OF CONCRETE TOS TOP OF STRUCTURAL STEEL TYP. TYPICAL U/g UNDERGROUND U/s UNDERSIDE UNO UNLESS NOTED OTHERWISE RE TALLY SLOTTED CONNECTION ING PAD ETER VO WITHOUT WD WOOD	(THICKNESS)				
ILS       TENSION LAP SPLICE         TOC       TOP OF CONCRETE         TOS       TOP OF STRUCTURAL STEEL         TYP.       TYPICAL         u/g       UNDERGROUND         u/g       UNDERGROUND         u/s       UNDERSIDE         UNO       UNLESS NOTED OTHERWISE         V.       VERT.         VERTICAL       VBR         VBR       VERTICAL BRACE         VBR       VERTICAL STEEL CONNECTION         W/G       WITH         Wo       WITHOUT         WD       WOOD	DIST				
MARKET OR       TOS       TOP OF STRUCTURAL STEEL         TYP.       TYPICAL         u/g       UNDERGROUND         u/s       UNDERSIDE         UNO       UNLESS NOTED OTHERWISE         V, VERT.       VERTICAL         VBR       VERTICAL         VSC       VERTICAL BRACE         VIALLY SLOTTED CONNECTION       W         WG PAD       W/O         ETER       WD         WD       WOOD					
NTAL BRACE RE VINO UNDERSIDE UNO UNLESS NOTED OTHERWISE V, VERT. VERTICAL VBR VERTICAL BRACE VBR VERTICALLY SLOTTED CONNECTION NTALLY SLOTTED CONNECTION W/ WITH ING PAD ETER WD WOOD	OF STRUCTURAL STEEL				
NTAL BRACE RE V, VERT. VERTICAL VBR VERTICAL BRACE VSC VERTICALLY SLOTTED CONNECTION W/ WITH NG PAD ETER WD WOOD					
RE UNO UNLESS NOTED OTHERWISE V, VERT. VERTICAL VBR VERTICAL BRACE VTALLY SLOTTED CONNECTION ING PAD ETER W/O WITHOUT WD WOOD	ERSIDE				
VBR VERTICAL BRACE VSC VERTICALLY SLOTTED CONNECTION W/ WITH ETER W/0 WITHOUT WD WOOD					
ING PAD     w/     WITH       ETER     W/O     WITHOUT       WD     WOOD	ICAL BRACE				
ETER W/o WITHOUT WD WOOD					
	OUT				
	K POINT				
EINFORCEMENT WWR WELDED WIRE REINFORCEMENT / MESH / FABRIC	DED WIRE REINFORCEMENT / MESH / FABRIC				
		GERED DARD CTURAL STEEL CTURAL OCUMENTS / CONSULTANT RAIL IETRICAL UE & GROOVE DF ERATURE CHORD EXTENSION ORARY (THICKNESS) UGH DIST ION LAP SPLICE DF CONCRETE DF STRUCTURAL STEEL YPICAL RGROUND RSIDE NLESS NOTED OTHERWISE ICAL ICAL BRACE ICAL BRACE ICALLY SLOTTED CONNECTION	GERED DARD CTURAL STEEL CTURAL DOCUMENTS / CONSULTANT RAIL IETRICAL UE & GROOVE DF ERATURE CHORD EXTENSION ORARY (THICKNESS) UGH DIST ION LAP SPLICE DF CONCRETE DF STRUCTURAL STEEL YPICAL RGROUND RSIDE NLESS NOTED OTHERWISE ICAL CAL BRACE ICAL BRACE ICALLY SLOTTED CONNECTION	GERED DARD CTURAL STEEL CTURAL DOCUMENTS / CONSULTANT RAIL IETRICAL UE & GROOVE DF ERATURE SHORD EXTENSION ORARY (THICKNESS) UGH DIST ION LAP SPLICE DF STRUCTURAL STEEL YPICAL RGROUND RSIDE NLESS NOTED OTHERWISE CAL ICAL BRACE ICAL BRACE ICAL STEEL CAL ICAL BRACE ICAL STEEL CAL ICAL BRACE ICAL STEEL CAL ICAL BRACE ICAL SLOTTED CONNECTION	GERED DARD CTURAL STEEL CTURAL DOCUMENTS / CONSULTANT RAIL ETRICAL UE & GROOVE JF ERATURE HORD EXTENSION ORARY (THICKNESS) UGH JIST ON LAP SPLICE JF CONCRETE JF STRUCTURAL STEEL YFICAL RGROUND RSIDE NLESS NOTED OTHERWISE CAL CAL BRACE CAL CAL BRACE CALL CAL BRACE CALL CAL STANDAR CAL CONNECTION

# WATERLOO REGIOON DISTRICT SCHOOL BOARD

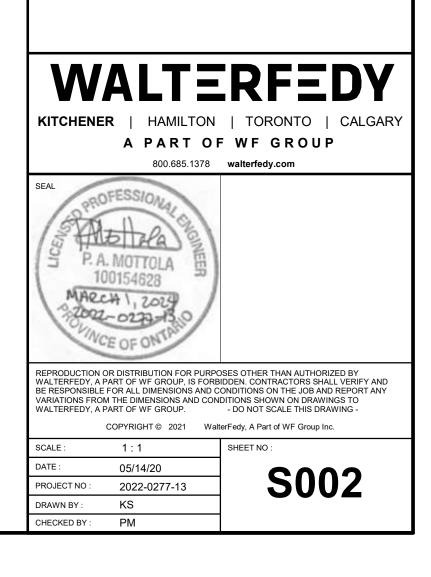
PROJECT

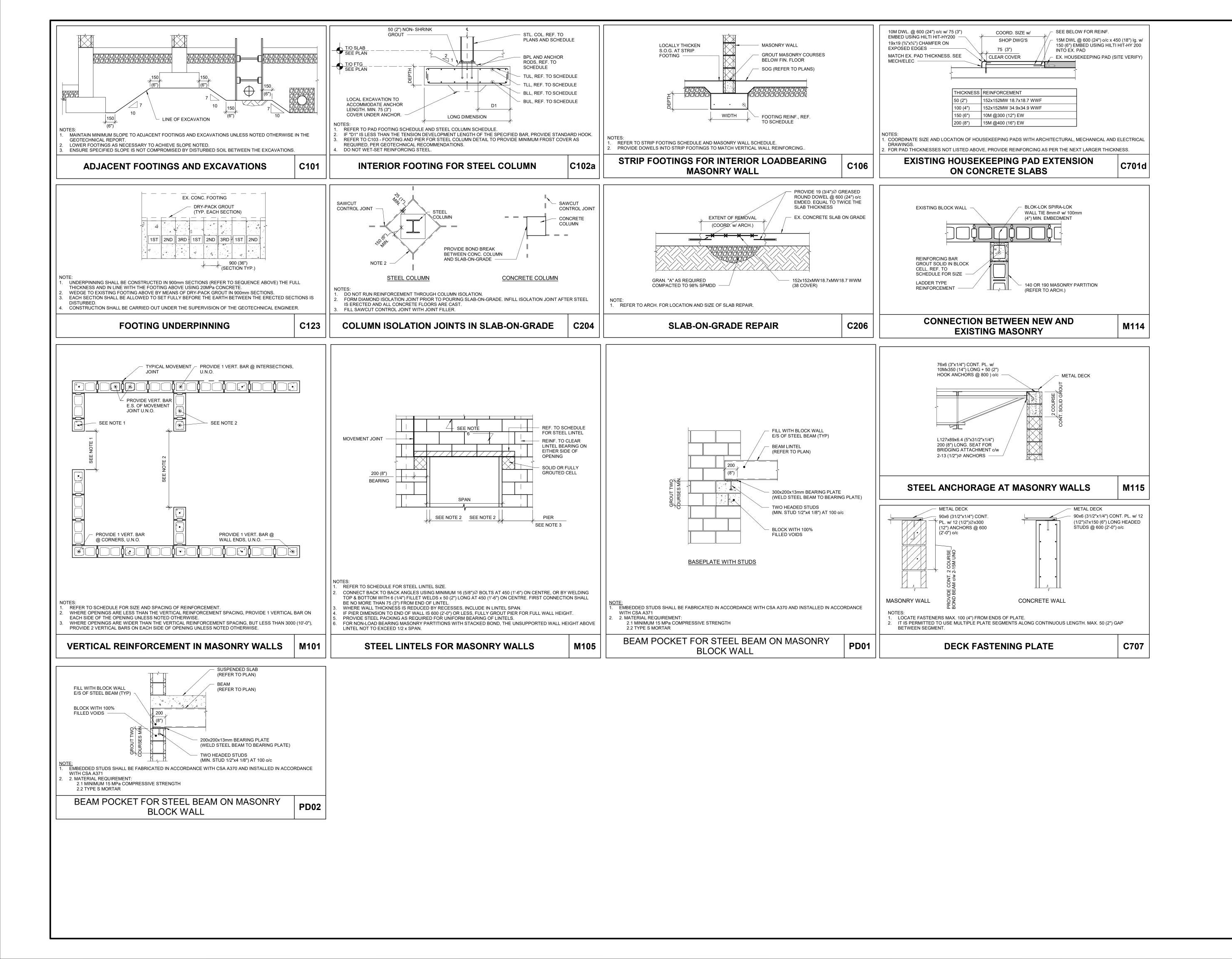
CLIENT

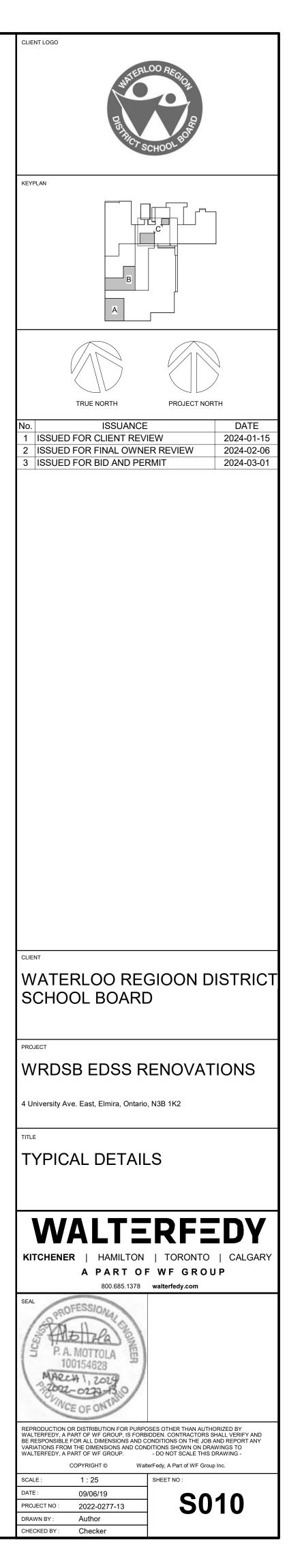
WRDSB EDSS RENOVATIONS

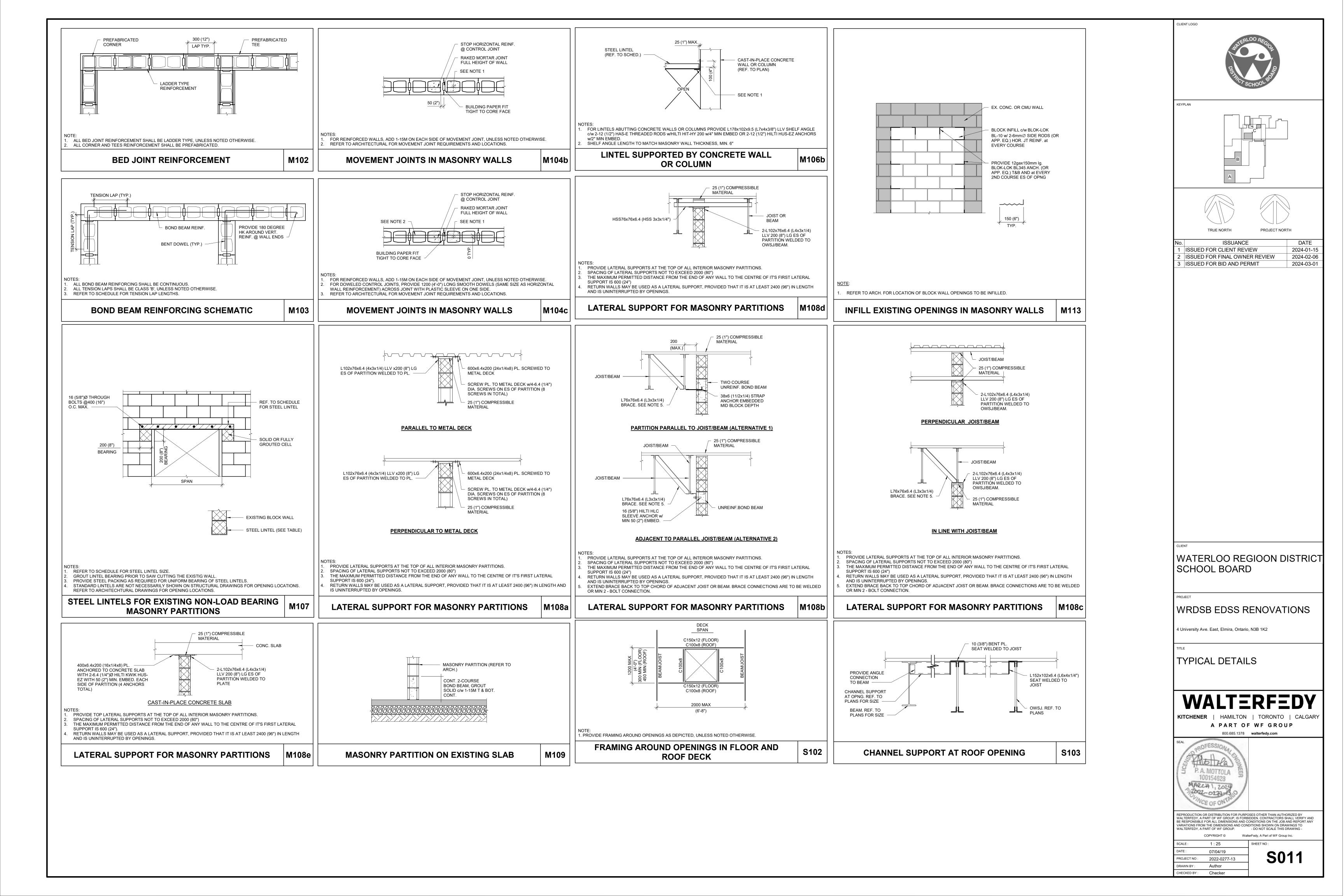
4 University Ave. East, Elmira, Ontario, N3B 1K2

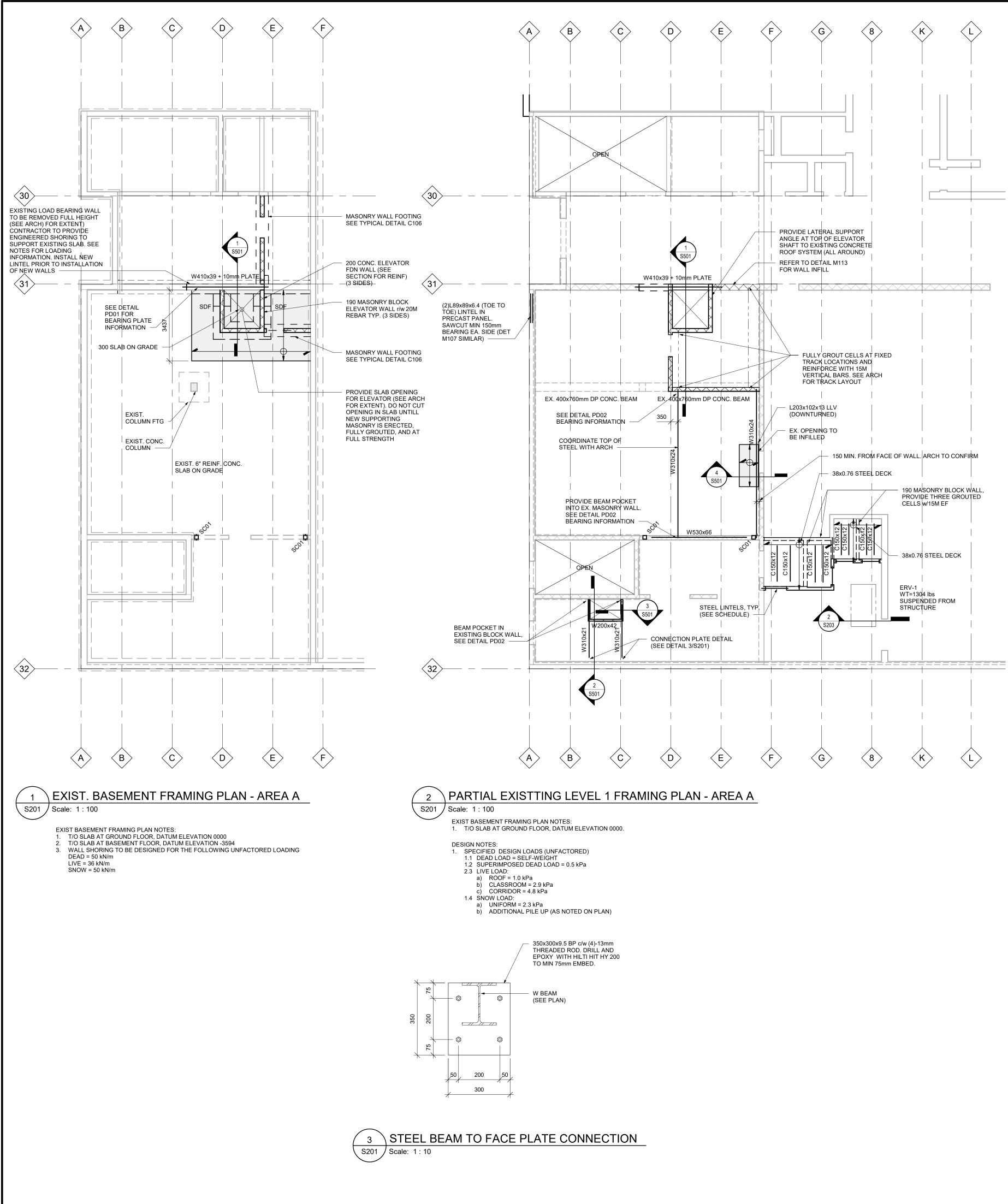
SCHEDULES

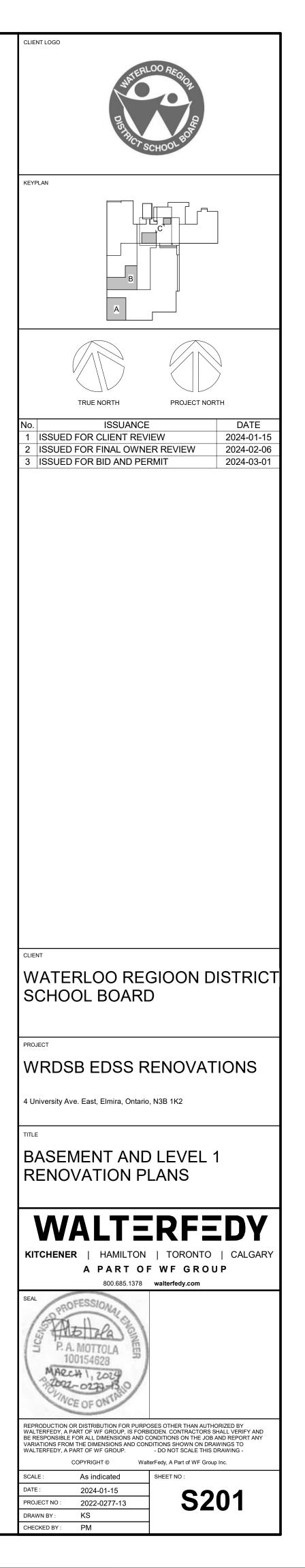


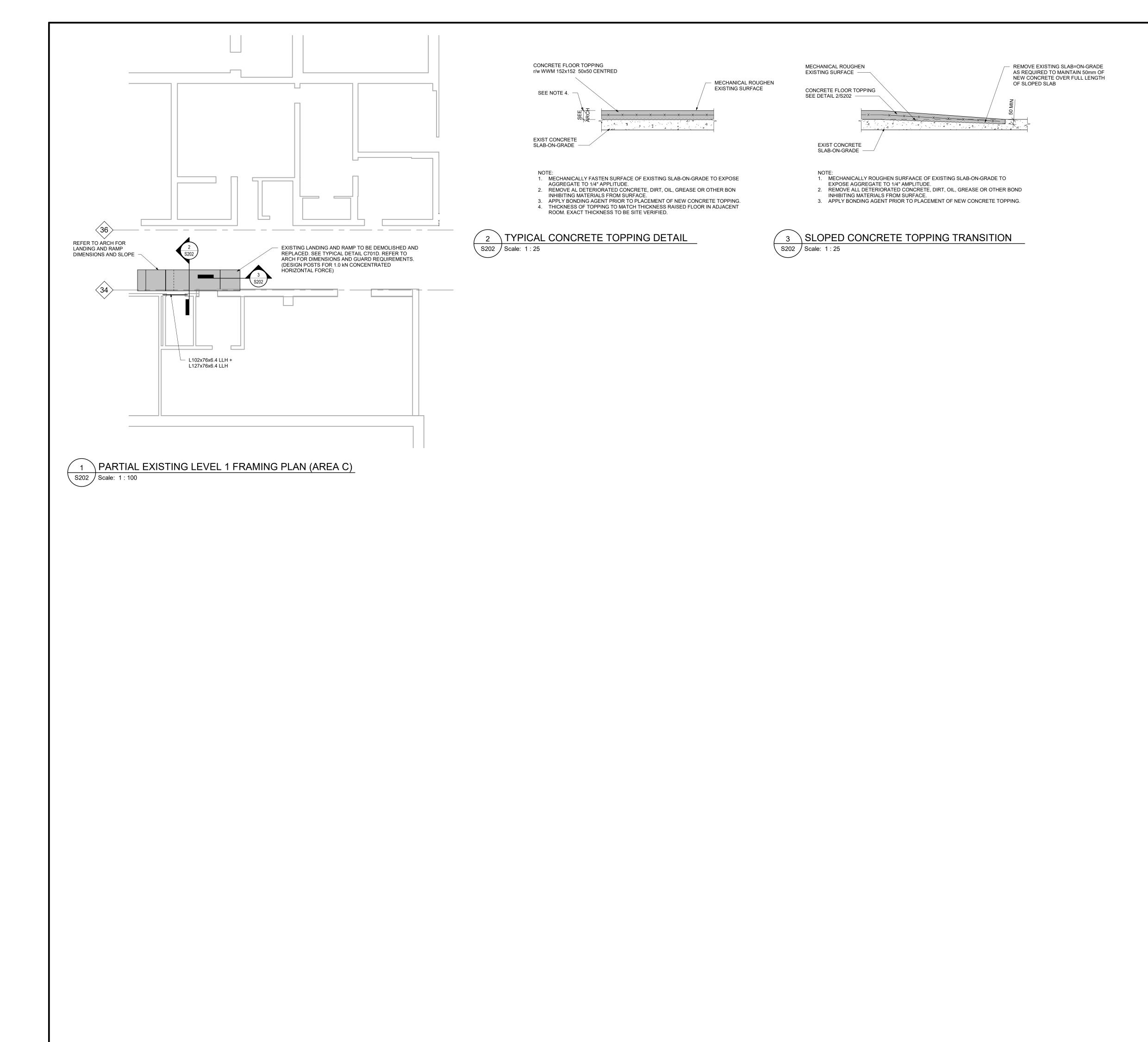


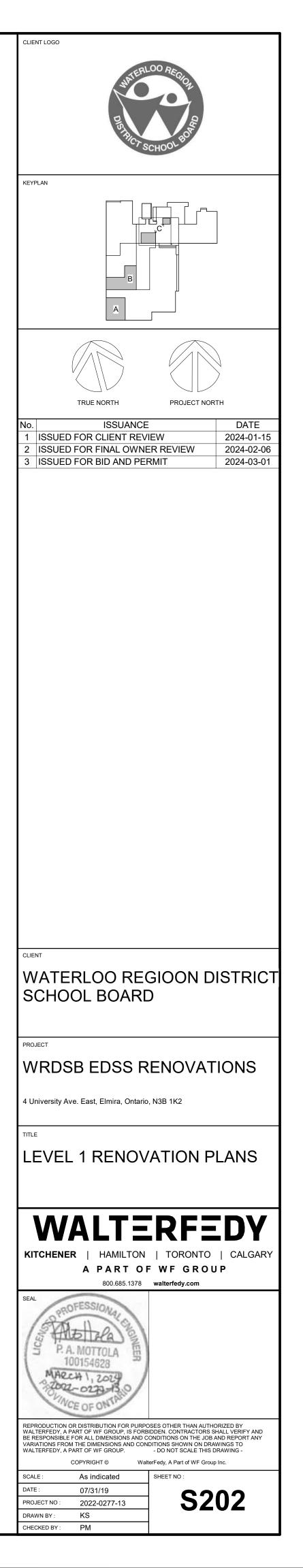


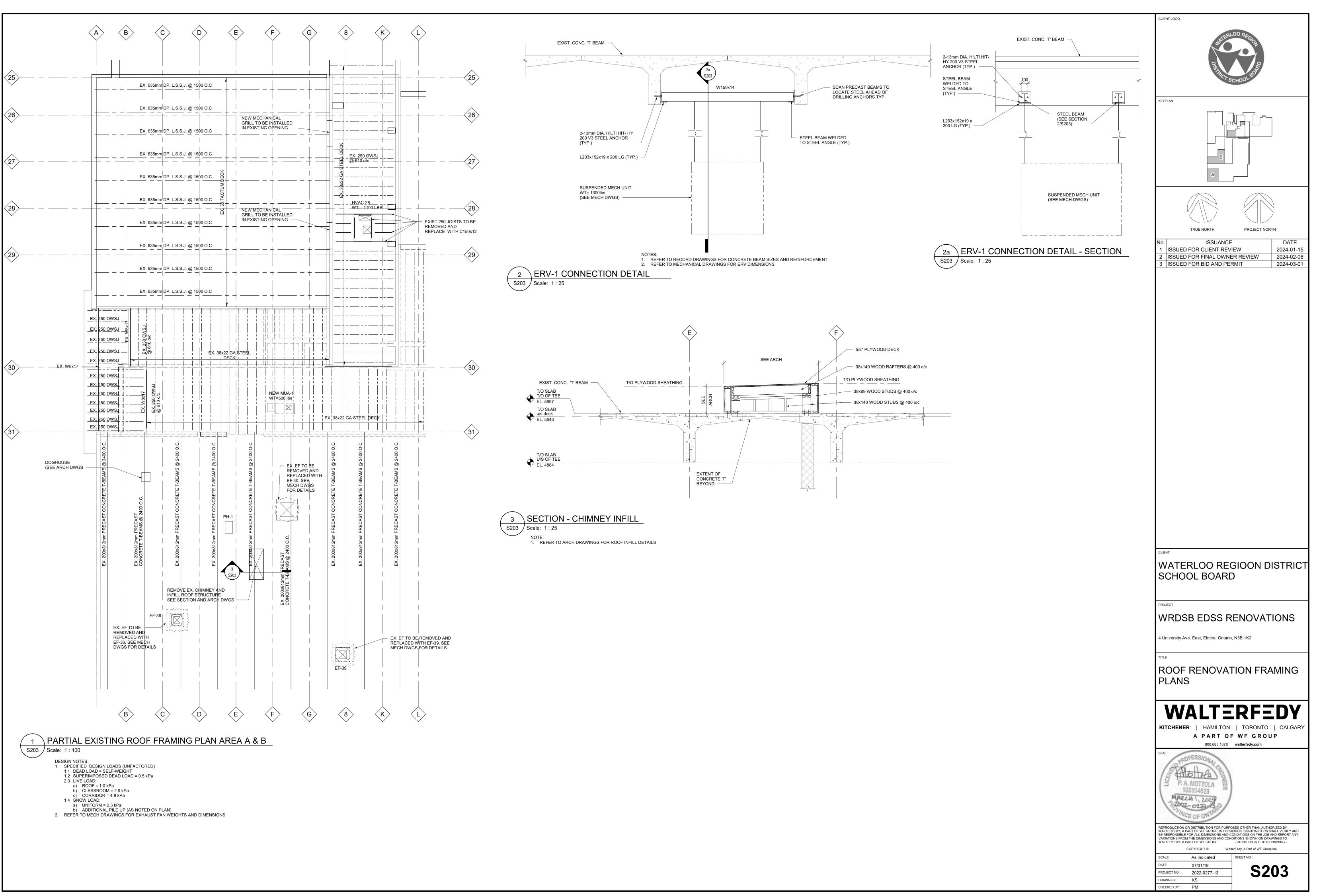


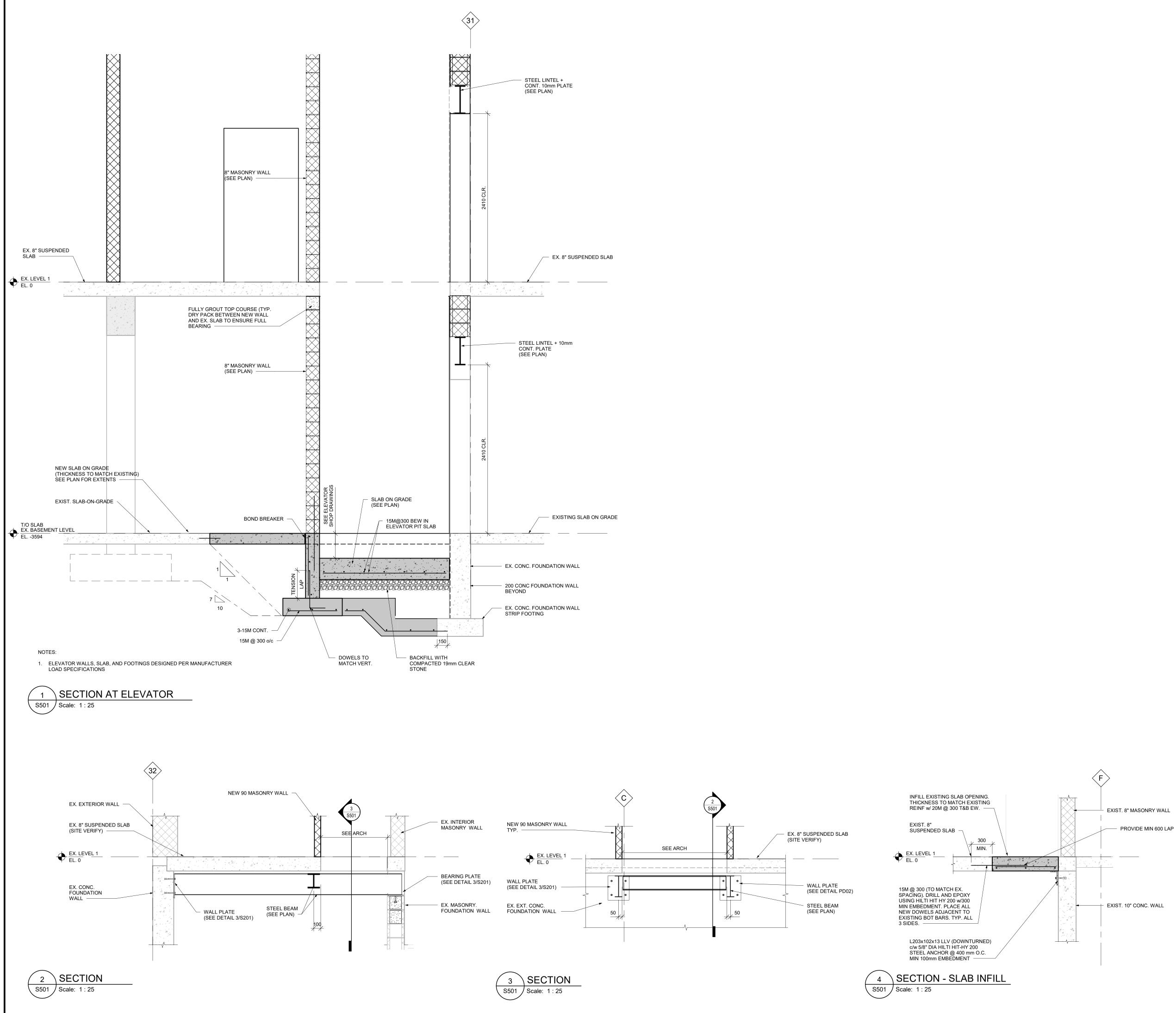


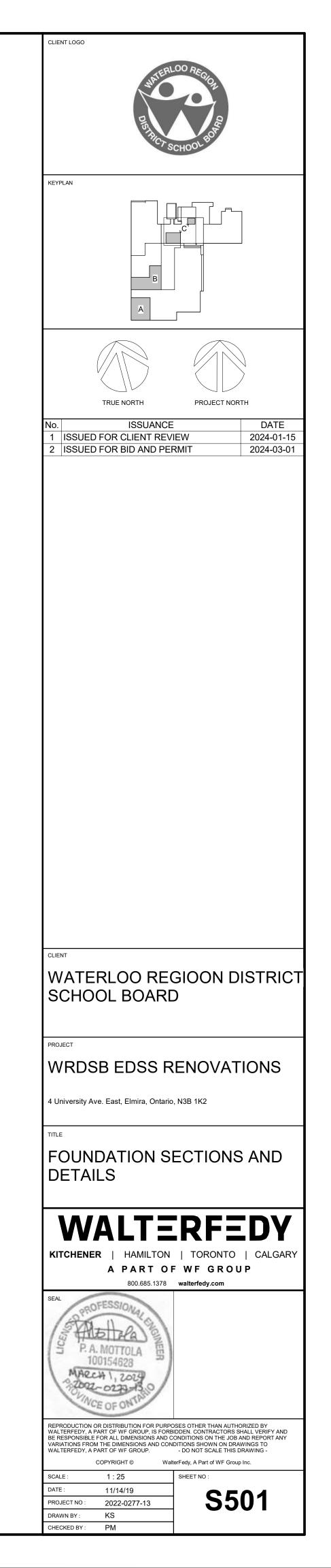




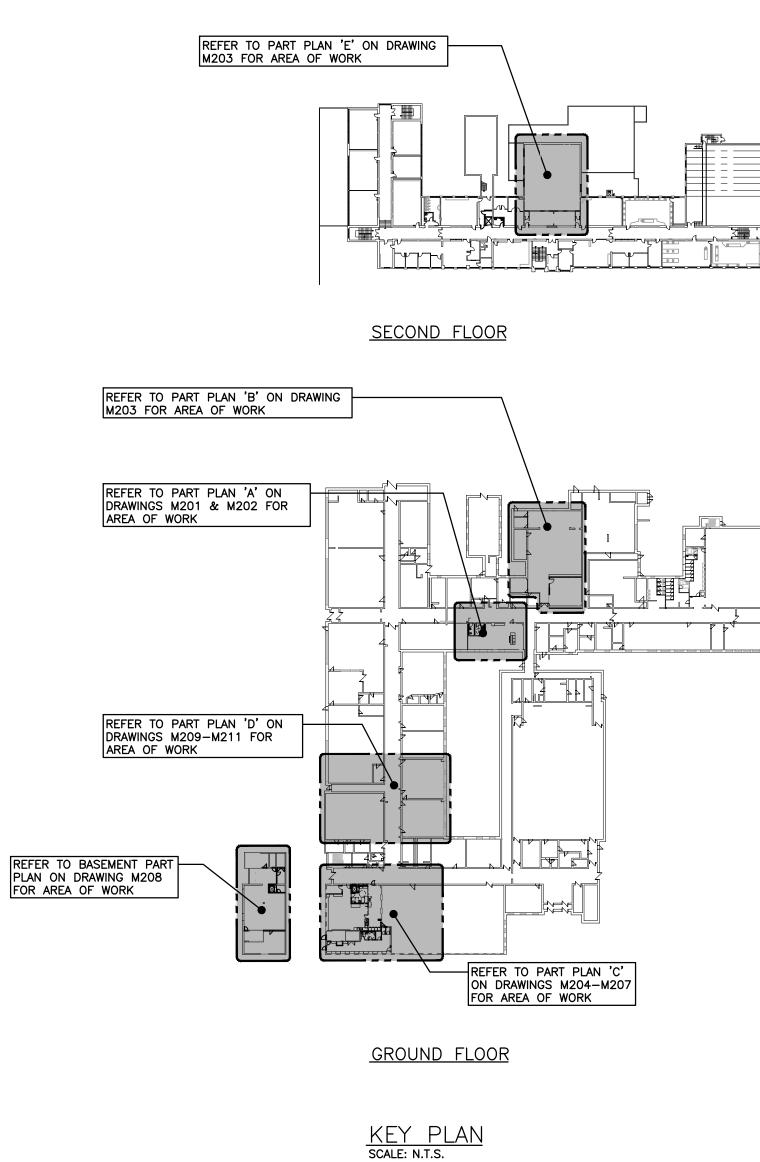






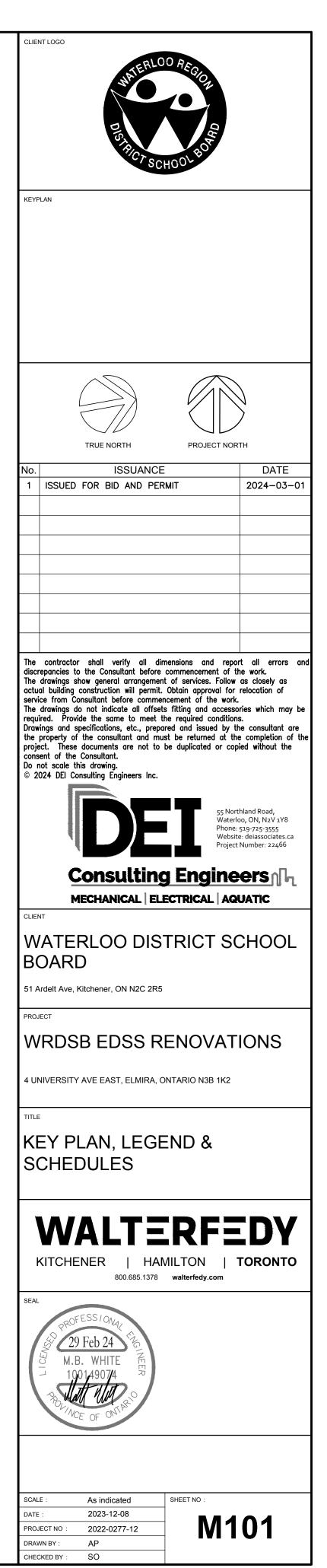


REFER TO BASEMENT PART



МЕСНА	NICAL LEGEND				
ltem	Description	Item	Description	ltem	Description
	CUT EXISTING & CONNECT NEW PIPING	Z	CHECK VALVE	<u> </u>	THERMOMETER
	FLOW DIRECTION	<b>7</b>	BALL DRIP CHECK VALVE		FLOW SWITCH
·	DOMESTIC COLD WATER PIPING	<b>N</b> N	BACKFLOW PREVENTOR	<sup>FM</sup>	FLOW METER
	DOMESTIC HOT WATER PIPING		REDUCED PRESSURE BACKFLOW PREVENTOR	PRV	PRESSURE REDUCING VALVE
	DOMESTIC HOT WATER RECIRC. PIPING		UNION	$\mathbf{\Phi}^{\mathrm{D}}$	THERMOSTAT (WITH OR WITHOUT GUARD)
T	DOMESTIC TEMPERED WATER PIPING		STRAINER	°S	THERMOSTAT (CONCEALED SENSOR)
—— · —H—	DOMESTIC HARD COLD WATER PIPING		BUCKET STRAINER	O <sup>D</sup>	CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD)
—S	DOMESTIC SOFT COLD WATER PIPING	Y	PRESSURE & TEMPERATURE TEST STATION	)))))	TURNING VANES
EX-SAN-	EXISTING SANITARY PIPING ABOVE FLOOR	$\checkmark$	DRAIN (SCHEMATICS)		SUPPLY AIR DUCT
EX-SAN-	EXISTING SANITARY PIPING BELOW FLOOR	 УВ	VACUUM BREAKER		RETURN/EXHAUST AIR DUCT
— — SAN — —	SANITARY PIPING ABOVE FLOOR		SCREWED OR WELDED PIPE	-	ACOUSTIC DUCT LINING
<b>—</b> —SAN <b>—</b> —	SANITARY PIPING BELOW FLOOR	NO	NORMALLY OPEN		BRANCH LINE SPIN-IN COLLAR
-EX-STM·	EXISTING STORM PIPING ABOVE FLOOR	NC	NORMALLY CLOSED		C/W BALANCING DAMPER
-EX-STM·	EXISTING STORM PIPING BELOW FLOOR		PLUG VALVE	BD	BALANCING DAMPER
—STM- · —	STORM PIPING ABOVE FLOOR	I <u>0</u> I	BALL VALVE	∕\ SD	SPLITTER DAMPER
—stm-•—	STORM PIPING BELOW FLOOR	I[I	BUTTERFLY VALVE	VE VE	VOLUME EXTRACTOR
CD	CONDENSATE PIPING	<b>₩</b>	GATE VALVE	OBD	OPPOSED BLADE DAMPER
	VENT PIPING	<b>₽</b> АV	AIR VENT	<del>∽~~</del> M	MOTORIZED DAMPER (OPPOSED BLADE)
——F——	STANDPIPE PIPING	<b>—</b>	GLOBE VALVE	FD	FIRE DAMPER
	SPRINKLER PIPING		MOTORIZED VALVE ACTUATOR	- \\\\-• FSD	COMBINATION FIRE/SMOKE DAMPER
—HWS——	HEATING WATER SUPPLY PIPING	X	CONTROL VALVE ACTUATOR	- \\\\-@ SD	SMOKE DAMPER
— —HWR— —	HEATING WATER RETURN PIPING	X	SOLENOID VALVE	FF	FIRE FLAP
G	NATURAL GAS PIPING	₩	RISER VALVE	BDD	BACKDRAFT DAMPER
HPG	HIGH PRESSURE NATURAL GAS PIPING	BV	BALANCING VALVE		FLEXIBLE ROUND DUCT
	REFRIGERANT LIQUID PIPING	<b>A</b> S	SUPERVISING VALVE		RIGID ROUND DUCT
——RS——	REFRIGERANT SUCTION PIPING		INLINE PUMP	—— AL ——	ALUMINUM DUCT
——HG——	HOT GAS PIPING	<b>₽</b>	INDICATING VALVE	Type Size Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
<sup>₽D</sup> �_ →	FLOOR DRAIN	TCV	TEMPERATURE CONTROL VALVE	Size 1 Type Size 2	HYDRONIC HEATING SIZE,
P	TRAP PRIMER	FEC	RECESSED CABINET MOUNTED FIRE EXTINGUISHER	Type <u>Size 2</u> Capacity	TYPE & CAPACITY
© <sup></sup> Bwv	BACKWATER VALVE	FE	WALL MOUNTED FIRE EXTINGUISHER	AD	ACCESS DOOR
	TEE CONNECTION	Ø	WATER METER	EXP	EXPANSION COMPENSATOR/JOINT
c—	PIPE DOWN	<b>o</b> co	FLOOR CLEANOUT	RIC	RETURN IN CABINET
<b>o</b> —	PIPE UP	——1 со	LINE CLEANOUT	AFF	ABOVE FINISHED FLOOR
— <del>N</del> —	FLEXIBLE CONNECTION	TP	TEMPERATURE & PRESSURE RELIEF VALVE	AFR	ABOVE FINISHED ROOF
<b>r</b>	REDUCER/INCREASER	Ð	PRESSURE GAUGE	CTE	CONNECT TO EXISTING
		Φ	TEMPERATURE GAUGE	EX	EXISTING DUCT (SIZE AS INDICATED)
			1		

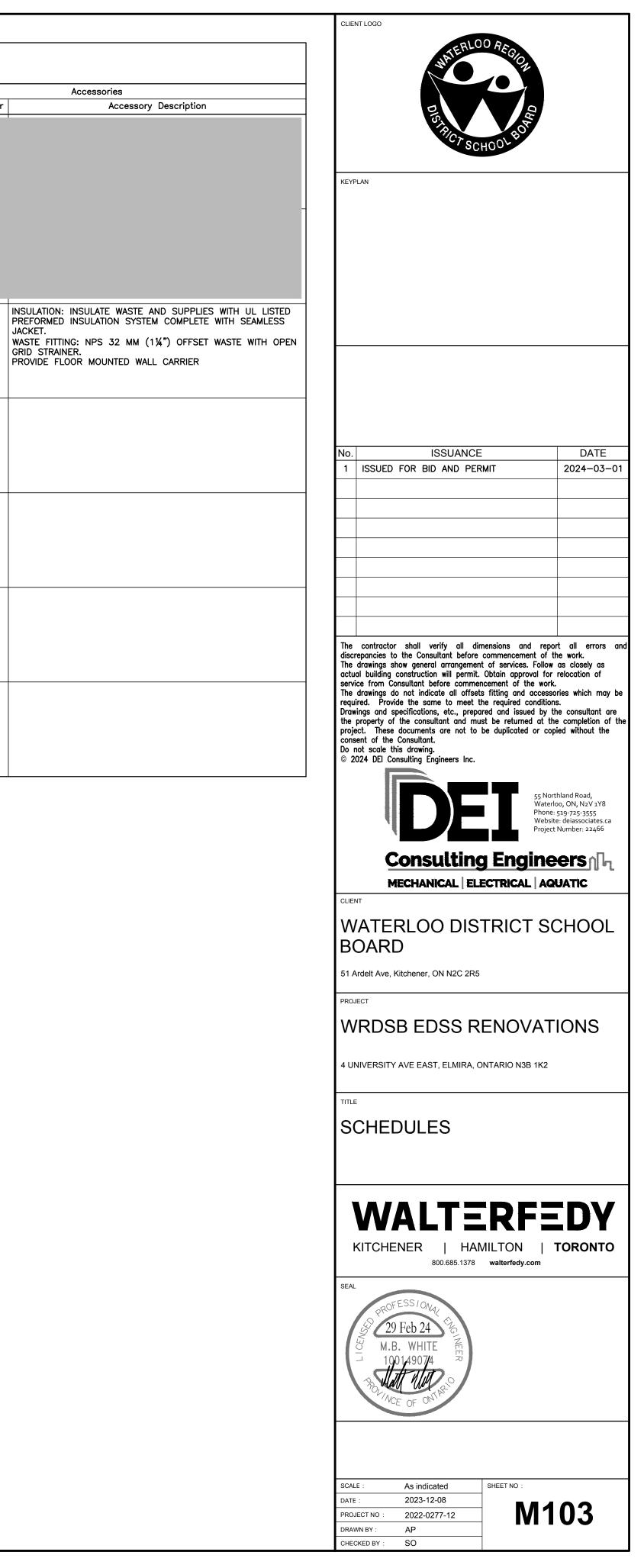
	Туре	Sys.	Capo		Heating Medium	Heating Capacity	Cooling ESI Capacity in	Outdoor A		Elect		Manufacturer & Model	Weight (lbs.)	Remarks		ALL DRAWING		BE READ I		TION WITH THE PRE	PARED
HVAC-28	PACKAGED ROOFTOP H DUAL FUEL(HEAT PUM		tons 5.0	cfm 1850	GAS	150/113 MBH 4.3/3.8 KW	55.0 1.2		208/3/60	MCA 31	45	LENNOX LDT060H4E		DOWN DISCHARGE FOR SUPPLY & RETURN	-	INDIVIDUAL PI FOLLOWING C	HASE OF TH ERTIFICATES	E PROJEC	T THE CONT	N COMPLETION OF RACTORS SHALL PF CE LETTERS ARE IS	OVIDE THE
1. ACC 2. UNIT 3. PRO DIVIS HOC PAD 4. CON	HVAC UNIT NOTES: EPTABLE MANUFACTURE S HAVE ELECTRIC AIR VIDE STANDARD INSULA SION, CONDENSER COIL DS & INLET SCREENS, LOCK LATCHES PROVIDE TROLS: ELECTRICAL/ME TRACTOR TO PROVIDE I	SOURCE HEAT PUN ED 24" HIGH ROC GUARD, STAINLES AND SETS MERV D BY OWNER. BLC CHANICAL SYSTEM	IP HEAT OF CURE S STEEL I 3 DISP OWER SE CONTRO	ING, 2 3 MAX 8 FLUE 0 OSABLE CTION 0 LS BY 1	85dB SO GAS EXTE FILTERS C/W INTE BAS CON	DUND RATING, ST ENSION, FREE C CONTRACTOR T EGRAL VIBRATION NTRACTOR, PROVI	AINLESS STEE OOLING ECON TO FIELD INST I ISOLATION. I IDE INTEGRAL	_ GAS HEAT DMIZER/CO <sup>2</sup> ALL STAINLES DYNAMICALLY	EXCHANGER, F CONTROLLED C SS STEEL OR ( BALANCED FAN	TELD INS OUTDOOR GALVANIZ N, DRIVES	STALLED AIR V ED HIN S AND	) DISCONNECT & IA TAC/DISTECH IGED SERVICE P/ PREMIUM EFFICI	: GFI SUF BAS SYS ANELS SL	'EM, AND ALL TABLE FOR 2"		- BACKFLO	WATER TES MANDATOR	Y TSSA/CS TIFICATES	SA-B149 GA FOR ALL TE	16 PART 3) S PRESSURE TEST STABLE DEVICES GETHER IN A SINGL	
<u>FAN</u> Item	SCHEDULE Type	Service	Future	Ext Capacity cfm	haust Air y Size hp	Data SP Voltag	ge Manufactu	rer Model			Rem	arks									
	CEILING MOUNTED EXHAUST	OCAL EXHAUST	N/A	100	Fhp	0.125 120/1/	/60 PENN BARRY					NGERS, SPEED ( ATION OF FANS									
EF-35		UTURE PH.2 CROSS-FIT ROOM	500	N/A	Fhp	0.50 120/1,	/60 PENN BARRY	DV170	C/W 600mm (	(24") HIC	GH ROO	OF CURB, SPEED BAS CONTRACTO	CONTRO								
EF-35 EF-36	INLINE DUCT MOUNTED EXHAUST		NI /A	150	Fhp	0.20 120/1/	/60 ORTECH	SDF200	C/W DRYER AN SENSOR INSTAL	MP SENS LLED BY	OR FAI	N CONTROL (OR	TECH-AS	). AMP			D PF	NTHO	USE S	CHEDULE	
	MOUNTED EXHAUST	DRYER BOOSTER FAN	N/A			0.20 120/1,						RICAL DIVISION							00L 0		
EF-36	MOUNTED EXHAUST INLINE DUCT MOUNTED EXHAUST CEILING MOUNTED		N/A N/A	400		0.25 120/1/	/60 PENN BARRY	71.011	C/W VIBRATION GRILLE. REVERS	I ISOLATI SE ACTIN	ON HA	RICAL DIVISION NGERS, SPEED ( RMOSTAT BY ELE		ER, ALUMINUM CONTRACTOR							
EF-36 EF-37 EF-38	MOUNTED EXHAUST INLINE DUCT MOUNTED EXHAUST CEILING MOUNTED	FAN ELEVATOR		400	1/2		BARRY	Z10H	GRILLE. REVERS	SE ACTIN	ION HA IG THEI GH ROC	NGERS. SPEED		CONTRACTOR		Туре	CFM	SP	Throat in.	Dimensions (LxWxH) in.	
EF-36 EF-37	MOUNTED EXHAUST INLINE DUCT MOUNTED EXHAUST CEILING MOUNTED EXHAUST ROOF MOUNTED	FAN ELEVATOR MACHINE ROOM	N/A	400	1/2	0.25 120/1/	BARRY	Z10H	GRILLE. REVERS	SE ACTIN	ION HA IG THEI GH ROC	NGERS, SPEED ( RMOSTAT BY ELE OF CURB, SPEED		CONTRACTOR					Throat	Dimensions	# of Louver 3

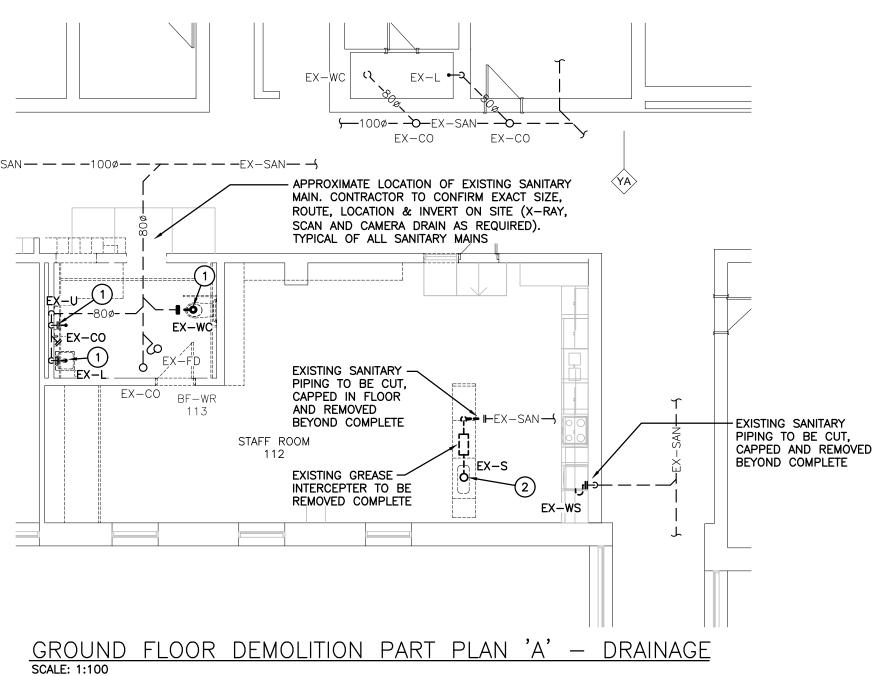


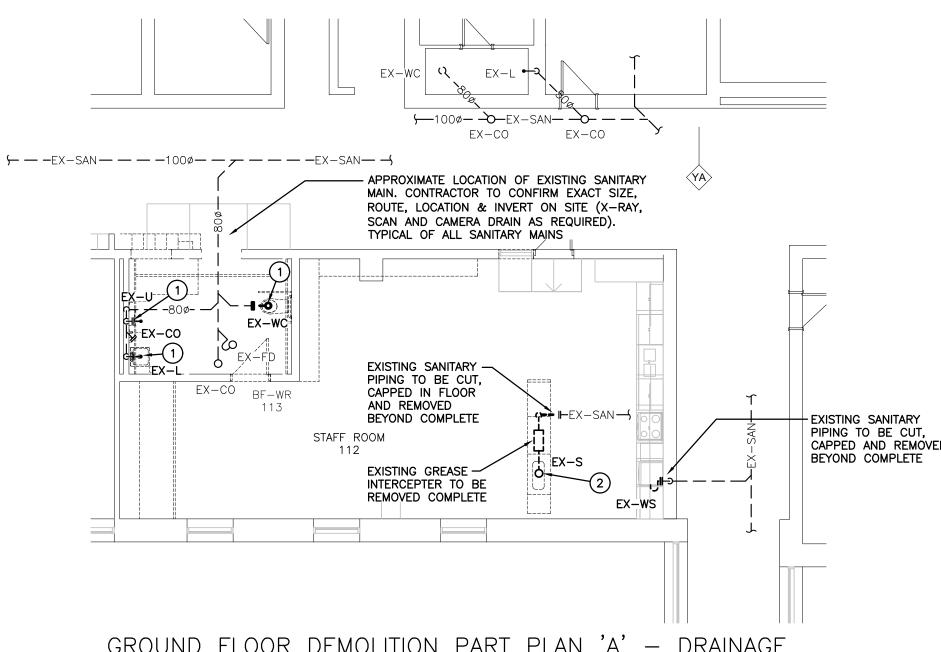
<u>GRILLE SCHE</u>	DUI F																													
Item Type		lanufacturer &	Finish			Remark	<s< th=""><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(N.I.C.)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></s<>			-													(N.I.C.)							
D1 SQUARE CEILING	SUPPLY KRU	Model EGER DA		4–CONE, STEE	EL, SLIDING ADJU			LE																						
D2 ROUND SUPPLY		EGER	BRITISH WHITE	4-CONE, STEE	EL, SLIDING ADJU	JSTMENT NO	OT ACCEPTABL	LE																						_
D3 DIRECTIONAL CEIL DIFFUSER		EGER	BRITISH WHITE	STEEL, 3-WAY INSTALLATIONS	AS INDICATED.	SUITABLE	FOR T-BAR	& DRYWA	ALL																					
S1 SIDEWALL SUPPLY	560		BRITISH WHITE	STEEL, C/W SO	CREWED FASTENI	IING, 3/4" I	BLADE SPACIN	NG, FIXED	D DEFLECT	ION													(N.I.C.)							
R1 CEILING RETURN	KRU EG5				W CHANNEL FRA					_													(million)							
RETURN/EXHAUST		0			W SCREWED FAS																									
R3 SIDEWALL RETURN	S85		BRITISH WHITE	SIEEL, C/W S	CREWED FASTENI	IING, 1/2 I	BLADE SPACIN	NG, FIXED	D DEFLECT																					_
ENERAL DIFFUSER/GRILLE . ACCEPTABLE MANUFAC . GRILLE COLOURS ARE . PAINT INTERIOR OF DU	CTURERS: EH PR E SELECTED BY A	ARCHITECT FROM	STANDARD COLO	UR CHART, UNL	LESS OTHERWISE	BAILEY E NOTED.					Item ERV-1	SCHE	eRGY	Supply CFM ESF w.g 1200 0.7			ESP Fa w.g. hp 1.0 5.	DB	er N WB DB 52.5 72.0		Air Temp Summe DB 75.2 6	er WB Di				oltage Manu 3/3/60 ALDES	ufacturer	Model PW30	Unit Weight Ibs 1300± C/ DEf	
		[	UNIT	VENTILA	TOR SCH	HEDUL	<u>.E</u>																							-
		-	ltem	Туре	Capacity Max. tons cfm (cf	. 0.A.SP in.	. Size	Coil	Heatin EWT I	g _WT Capaci	ity CPM M	Cooling Iodium Total C	ap. Sens. Co	ap. Voltage	Electrical MCA	MOCP Ma	anufacturer	- Model					Remarks							
		ŀ	UV-9 FLOO	R MOUNTED VENTILATOR	tons         cfm         (Cr           2.5         1000         40	00 0.10	1/3 WATER	TROWS	•F	<u>•F MBH</u> 130 45.7	7 4.6	DX 33.2	<u>MBH</u> 24.9	) 120/1/60	D 6.3	MOCF		UAVS9-H	110 3-	-SPEED E	CM MOTOR,	FACE &	BYPASS HE	ATING CO	DIL, 3-WAY	VALVE AT HEA	TING COIL,	250MM INSU	LATED REAR PIP	2
					2.5 1000 40					130 45.7		DX 33.2		120/1/60				UAVS9-H	TU	NNEL) C/	W MOUNTIN	NG HARDW	VARE & KICH	KPLATE (C	CONFIRM C	UT-OUTS WITH	MANUFACT	URER), BOTTO	D SUIT DRAFTSTO DM FRONT RA IN LED & WIRED),	NI
																			CO PA	LOUR, TA N, 50MM	MPER-RESI BASE TO F	STANT FA	STENERS ON T, SET FAN	N ALL ACC TO MEDIL	CESS DOOF UM SPEED.	RS, REPLACEME	NT FILTERS	S C/W ONE E EXTERIOR ALL	XTRA SET, SÉCC JMINUM WALL GF	0
		-	VFRT	ICAL UNIT			4.40									FNG	GINEERED		7										LATED REAR PIP	-
		-	UV-11 VENT	ILATOR	2.5 1000 40	00 0.50	1/2 WATER	R 2	150	130 61.9	9 6.3	DX 30.1	23.7	7 120/1/60	) 12.6	20 AIR		RUV-12	CA CO MA FR RE EX	BINET, OF MPLETED NUFACTUF EEZESTAT PLACEMEN	SIZE TO SON SITE SON SITE SON SITE SITE SON SITE SILTERS	SUIT THE O SUIT D OM FRONT INSTALLEI C/W ONE	CEILING HE RAFTSTOP D T RA INLET D & WIRED) E EXTRA SET	IGHT, DIGI OWNDRAFT GRILLE & , ADJUSTA T, SECONE	ital ready τ protect c draftsto Able leg dary over	Y CONTROLS PA FION FEATURE & DP DOWNDRAFT LEVELLERS, PU RFLOW DRAIN C	CKAGE, RE 2 PIPING T PROTECTIO TTY BEIGE ONNECTION	AR OA INTAKI UNNEL) C/W N RA INLET, CABINET COLO FOR CONDEN	E DUCT COLLAR, MOUNTING HARI UNIT MOUNTED OUR, TAMPER-R NSATE PAN, SET LES TO MATCH L	ς, 2D\ C RE Γ
		[			rs: daikin, tran					<u>All</u>	R CO	OLED C	ONDE	NSING	UNIT	SCHE	EDULE	-												
			Item		Room		Capacit cfm		ze	ltem		Туре		Service	Tons	Capacity- MBH	Сотр Туре	ressor No. No. R Stages	efrig. Sat Temp	No. of on Cond. F Fans	E Voltage	Electrical MCA	MOCP Uni MOCP Ibs	it ght Manu s	ufacturer	Model		Rem	arks	
		-	BPD-21.0 BYP	ASS DAMPER			-	500x	<350	CII-9													75 050			D7505470404		CONTINUOUS	SUPPORT AS P	2
											OUTDOOR	ROOF MOUN		CLASSROOM 1307 111		36.0		1 1 R	410A 52	. 1	208/1/60					DZSSEASOTUA	FROVIDE			-
		ŀ	WT-21.1 LIBF				1200			CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE		SUPPORT AS P	
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		-								CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
		-		RARY RES. CEN.	. 1110				,350	CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
		-	VVT-21.2 LIBF	PARY RES. CEN.	. 1110 (N.I.C.)		3900	9 750x	<200	CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2 LIBF	PARY RES. CEN.	. 1110 (N.I.C.) ECH 1306 109		3900	9 750x 750x 450x 450x	<350 (200 (350)	CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2 LIBF VVT-21.2 LIBF BPD-28.0 BYP VVT-28.1 CON	PARY RES. CEN.	. 1110 (N.I.C.) ECH 1306 109		3900 	9 750x 750x 450x 450x	<350 (200 (350)	CU-10	OUTDOOR	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED	3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2 LIBF VVT-21.2 LIBF BPD-28.0 BYP VVT-28.1 CON	PARY RES. CEN.	. 1110 (N.I.C.) ECH 1306 109		3900 	9 750x 750x 450x 450x	<350 (200 (350)	CU-10 CU-11	OUTDOOR OUTDOO	ROOF MOUN	TED	CLASSROOM 1309 110 SPEC ED CLASSROOM	3.0 101 3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2 LIBF VVT-21.2 LIBF BPD-28.0 BYP VVT-28.1 CON	PARY RES. CEN.	. 1110 (N.I.C.) ECH 1306 109		3900 	9 750x 750x 450x 450x	<350 (200 (350)	CU-10 CU-11	OUTDOOR OUTDOO	ROOF MOUN	TED	CLASSROOM 1309 110 SPEC ED CLASSROOM	3.0 101 3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	0 22.8	35 250		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2         LIBF           VVT-21.2         LIBF           BPD-28.0         BYP           VVT-28.1         CON           VVT-28.2         ELC           O         O           VVT-28.2         CON	PARY RES. CEN. PASS DAMPER MMUNICATION TE T. AV RM. / OI	. 1110 (N.I.C.) ECH 1306 109 OFF. RM TURE SC		3900 	9 750x 750x 450x 450x	<350 (200 (350)	CU-10 CU-11	OUTDOOR OUTDOO	ROOF MOUN	ED	CLASSROOM 1309 110 SPEC ED CLASSROOM	3.0 101 3.0	36.0	SCROLL	1 1 R	410A 52	. 1	208/1/60	22.8         0       18.8         1       1         1	35 250 35 200 		N	DZ5SEA3610A	PROVIDE			
			VVT-21.2       LIBF         WT-21.2       LIBF         BPD-28.0       BYP         VVT-28.1       CON         VVT-28.2       ELC         WT-28.2       ELC         Item       Item         WC-1       BAR CLO 16"	PARY RES. CEN. PASS DAMPER MMUNICATION TE T. AV RM. / OI	. 1110 (N.I.C.) ECH 1306 109 OFF. RM TURE SC TURE SC Conn HW CW	nection Size TW Drain	3900       3900       -       1500       350       1500       350       40       40       AMER MAR KOHL MANS ZURN	0 750x 750x 450x 250x 250x 250x 250x 250x	<350 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <200 <20 <2	CU-10 CU-11 	ARRIER FRE	ROOF MOUNT ROOF MOUNT ROOF MOUNT ROOF MOUNT ROOF MOUNT ROUT ROUT ROUT ROUT ROUT ROUT ROUT ROU	ED ED ED DAIKIN, TR DAIKIN, TR TO RIM, VITF H VALVE, B	CLASSROOM 1309 110 SPEC ED CLASSROOM	3.0 101 3.0 101 3.0 101 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.0 36.0	SCROLL       I         SCROLL       I         SCROLL       I         I       I      <	1       1       R         1       1       R     <	410A 52 410A 52 410A 52	r W EXPOSE (1") SC MANUAI AUTOM FLUSH SPUD C/W C	ED, POLISHE CREWDRIVER PUSH BU ATIC 8 HR CONNECTIO ESCUTCHEIN OVER, VANE	D 22.8 D 18.8 D 18.8	35 250 35 200 35 200 	Description DIAPHRAG RIZED ACT UUM BREA ECESSED 40MM (1 ATED POW VS, FLUSH	N N N SM TYPE FI TUATOR, AL AKER ADJU WALL MOU I 1/2") TO WER CONVE H CYCLE S	DZ5SEA3610A DX16SA0371 DX16SA0371	PROVIDE PROVIDE	CONTINUOUS	SUPPORT AS P	
			VVT-21.2       LIBF         WT-21.2       LIBF         BPD-28.0       BYP         VVT-28.1       CON         VVT-28.2       ELC         VVT-28.2       ELC         Item       I         WC-1       BAR CLO 16"         WC-2       BAR CLO 16"	PARY RES. CEN. PASS DAMPER MUNICATION TE T. AV RM. / OI ING FIX Type RIER FREE WAT SET FLUSH VAL HIGH, HANDS F	. 1110 (N.I.C.) ECH 1306 109 FF. RM FF. RM TURE SC TURE SC TURE SC Conn HW CW ER VE, FREE 25	nection Size TW Drain 80	3900         3900         3900         -         1         -         1500         350         -         1500         350         -         1500         350         -         40	0 750x 750x 450x 250x 250x 250x 250x 250x 250x 250x 2	<ul> <li>&lt;350</li> <li>&lt;200</li> <li>&lt;350</li> <li>&lt;200</li> <li>&lt;350</li> <li>&lt;200</li> <li>&lt;350</li> <li>&lt;200</li> <li><a href="https://www.sci.org">https://www.sci.org</a></li> <li><a href="https://wwwww.sci.org"></a>wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww</li></ul>	CU-10 CU-11	ARRIER FRE IM, TOP SP	ROOF MOUNT ROOF MOUNT ROOF MOUNT ROOF MOUNT ROOF MOUNT ROUT ROUT ROUT ROUT ROUT ROUT ROUT ROU	ED ED ED DAIKIN, TR DAIKIN, TR DAIKIN, TR TO RIM, VITH H VALVE, B JGH–IN, MIN	CLASSROOM 1309 110 SPEC ED CLASSROOM	3.0 101 3.0 101 3.0 101 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.0 37.0 37.0 37.0 37.0 37.0 37.0 37.0	SCROLL       I         SCROLL       I         SCROLL       I         SCROLL       I         I       I	1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       R         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1 </td <td>410A 52 410A 52 410</td> <td>r W EXPOSE (1") SC/W C (1.6 G, BARS W EXPOSE (1") SC MANUAI AUTOM, FLUSH SPUD I C/W C (1.6 G, BARS W EXPOSE (1") SC MANUAI AUTOM, FLUSH SPUD I C/W C</td> <td>208/1/60 208/10 208/10</td> <td>22.8 2 22.8 2 18.8 2 18.8</td> <td>35 250 35 200 35 200</td> <td>Description Diaphrag Rized Act UM BREA ECESSED 40MM (1 ATED POW VS, FLUSH DIAPHRAG RIZED ACT UM BREA ECESSED 40MM (1 ATED POW VS, FLUSH</td> <td>N N N N SUBJECT N N N N N N N N N N N N N N N N N N N</td> <td>DZ5SEA3610A DX16SA0371 DX16SA0371</td> <td>PROVIDE PROVIDE</td> <td>CONTINUOUS</td> <td>SUPPORT AS P</td> <td></td>	410A 52 410A 52 410	r W EXPOSE (1") SC/W C (1.6 G, BARS W EXPOSE (1") SC MANUAI AUTOM, FLUSH SPUD I C/W C (1.6 G, BARS W EXPOSE (1") SC MANUAI AUTOM, FLUSH SPUD I C/W C	208/1/60 208/10 208/10	22.8 2 22.8 2 18.8 2 18.8	35 250 35 200 35 200	Description Diaphrag Rized Act UM BREA ECESSED 40MM (1 ATED POW VS, FLUSH DIAPHRAG RIZED ACT UM BREA ECESSED 40MM (1 ATED POW VS, FLUSH	N N N N SUBJECT N N N N N N N N N N N N N N N N N N N	DZ5SEA3610A DX16SA0371 DX16SA0371	PROVIDE PROVIDE	CONTINUOUS	SUPPORT AS P	

	CLIENT LOGO
	KEYPLAN
Remarks C/W 600mm HIGH ROOF CURB, AND EXHAUST ONLY DEFROST CYCLE	
AR PIPE CHASE, DIGITAL READY CONTROLS PACKAGE, REAR OA CAFTSTOP DOWNDRAFT PROTECTION FEATURE & PIPING RA INLET GRILLE & DRAFTSTOP DOWNDRAFT PROTECTION RA RED), ADJUSTABLE LEG LEVELLERS, PUTTY BEIGE CABINET SECONDARY OVERFLOW DRAIN CONNECTION FOR CONDENSATE ALL GRILLE CONSTRUCTION OF HEAVY GAUGE ALUMINUM W/	No.     ISSUANCE     DATE       1     ISSUED FOR BID AND PERMIT     2024-03-01
AR PIPE CHASE COLOR-MATCHED TOP EXTENSION FOR THE OLLAR, TWO (2) FULL-DEPTH END PANELS (CUT-OUTS TO BE CHARDWARE & KICKPLATE (CONFIRM CUT-OUTS WITH NTED DISCONNECT (INSIDE ENCLOSURE), HEATING COIL PER-RESISTANT FASTENERS ON ALL ACCESS DOORS, N, SET FAN TO MEDIUM SPEED. PROVIDE A DECORATIVE ITCH LOUVER BLADES SPACING TO MAXIMIZE THE AIR	
AS PER DETAIL. CONNECT TO UV-9 AS PER DETAIL. CONNECT TO UV-10 AS PER DETAIL. CONNECT TO UV-11	The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. (a) 2024 DEI Consulting Engineers Inc.  S5 Northland Road, Waterloo, ON, N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.co Project. Number: 22466  CONSULTING ELECTRICAL AQUATIC  CLIENT  CLIENT  Take and the consultant electric all electric all acuation and the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consult of the Consultant. Do not scale this drawing.  (a) 2024 DEI Consulting Engineers Inc.  S5 Northland Road, Waterloo, ON, N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.co Project Number: 22466  CONSULTING ELECTRICAL AQUATIC  CLIENT  CLIENT  A CLIENT  CLIENT  Take the consultant of the consultant and the consultant are the consultant acuation approved to the consultant and the consultant acuation approved to the advection approved to the advection approved to the advection approved to the advection approved to the consultant acuation approved to the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consultant and the consultant.  Do not scale this drawing.  CLIENT  A provide the scale section approved to the project to the project approved to the project approv
	PROJECT WRDSB EDSS RENOVATIONS 4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2
	TITLE SCHEDULES
Accessories         r       Accessory Description         SEAT: BLACK, ELONGATED, OPEN FRONT LESS COVER, MOLDED       SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK         HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.       REFER TO ARCHITECTURAL DOCUMENTS FOR VERTICAL         BACKREST.       BACKREST.	KITCHENER   HAMILTON   TORONTO 800.685.1378 walterfedy.com
SEAT: BLACK, ELONGATED, OPEN FRONT LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. PROVIDE ROUGH-IN FOR FUTURE PORTABLE BIDET SEAT C/W 15¢ COLD WATER. REFER TO ARCHITECTURAL DOCUMENTS FOR VERTICAL BACKREST. INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER THERMOSTATIC MIXING VALVE UNDER LAV. DELTA 591T, POWERS LM490 OR EQUAL. PROVIDE SHROUD/KNEE CONTACT GUARD #0059 020	SEAL PROFESSION 29 Feb 24 M.B. WHITE 100149074 WCE OF ONTARIO
	SCALE :         As indicated         SHEET NO :           DATE :         2023-12-08         Image: Comparison of the state of th

<u>PLU</u>	MBING FIXTUR	<u>re sched</u>	ULE						
Item	Туре	Connection			Fixture		Trim		
item	iypo	HW CW TW Dr	ain Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacture	Trim Description	Acceptable Manufacturer	•
-						(N.I.C.)			
SV-1	BARRIER FREE SHOWER	15 15	-	+		DELTA T13H153	CHROME PLATED BRASS SUPPLY FITTINGS WITH VOLUME CONTROL PRESSURE	INSULATION:	IN
3-1	SUPPLY VALVE					MOEN SLOAN	CHROME PLATED BRASS SUPPLY FITTINGS WITH VOLUME CONTROL, PRESSURE BALANCING MIXING VALVE, SCREWDRIVER STOPS, CHROME PLATED BALL JOINT FULLY ADJUSTABLE SPRAY PATTERN SHOWER HEAD WITH BENT SHOWER ARM AND ESCUTCHEON. PROVIDE ACCESSORIES TO LIMIT MAXIMUM FLOW RATE TO 6.6 LITRES (1.75 GPM)/MINUTE AT 413 KPA (60 PSI).	MCGUIRF	PI J/ W GI PI
WS-1	WASHER SUPPLY VALVE	15 15		WATTS DWB ZURN WM2961 DELTA	ENCASED WASHING MACHINE VALVE COMPLETE WITH SINGLE LEVER HANDLE VALVE, HEAVY-DUTY MOUNTING STRAPS, KNOCKOUTS FOR A RIGHT OR LEFT MOUNTING, AND A TAILPIECE THAT ADAPTS EASILY TO EITHER ABS OR PVC STANDPIPE.				
FD-1	FLOOR DRAIN	NC	DTED 40	ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A JAY R SMITH 2005A	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. 5"Ø ROUND STRAINER. C/W TRAP PRIMER				
HD-1	HUB DRAIN	NO	OTED 40	ZURN Z415 C/W Z-400-S MIFAB F1100-C-DD CONTOUR C2000-F WATTS FD-100-C-DD	GENERAL DUTY HUB DRAIN CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE ADJUSTABLE HEAD HUB. C/W TRAP PRIMER.				





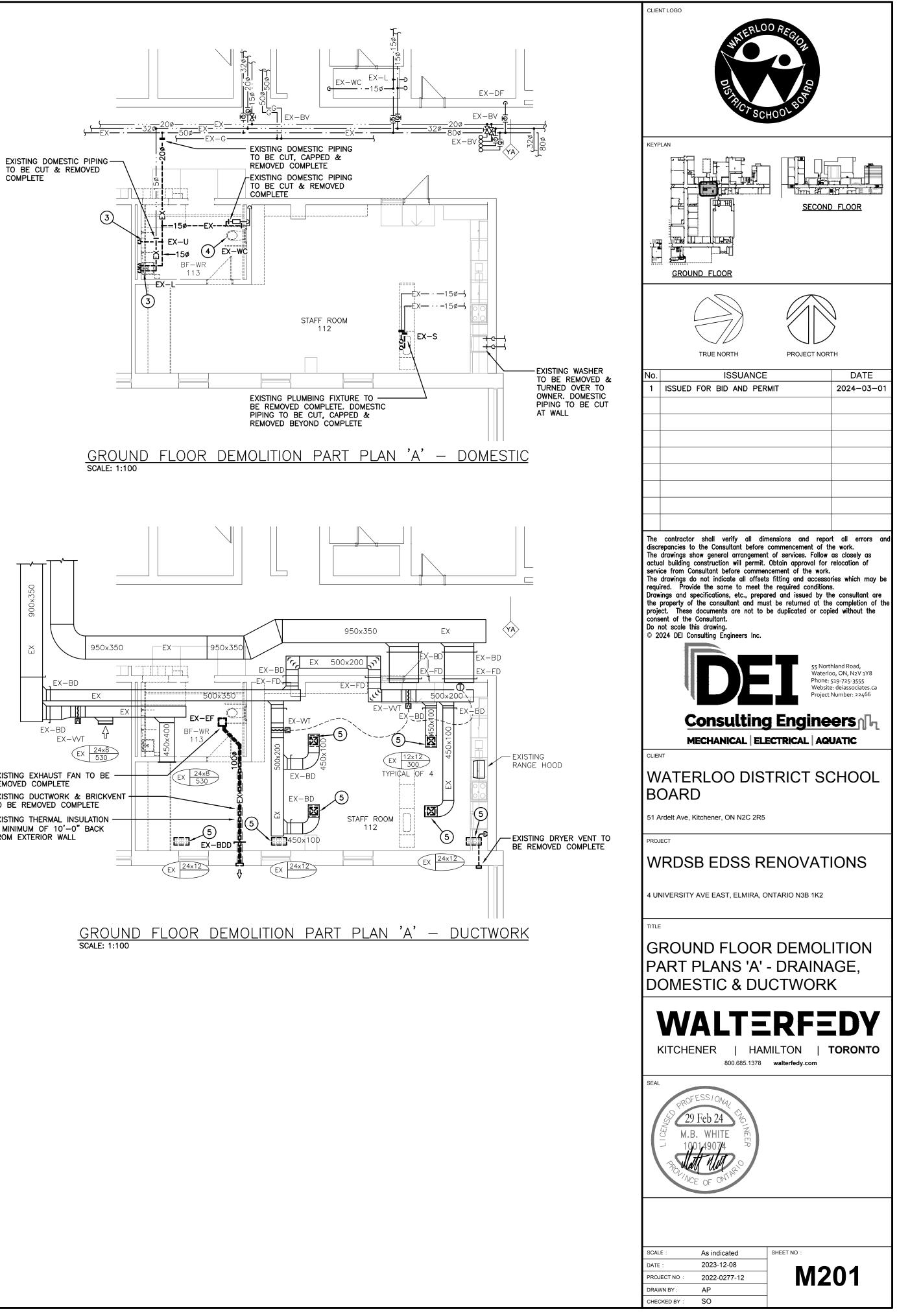


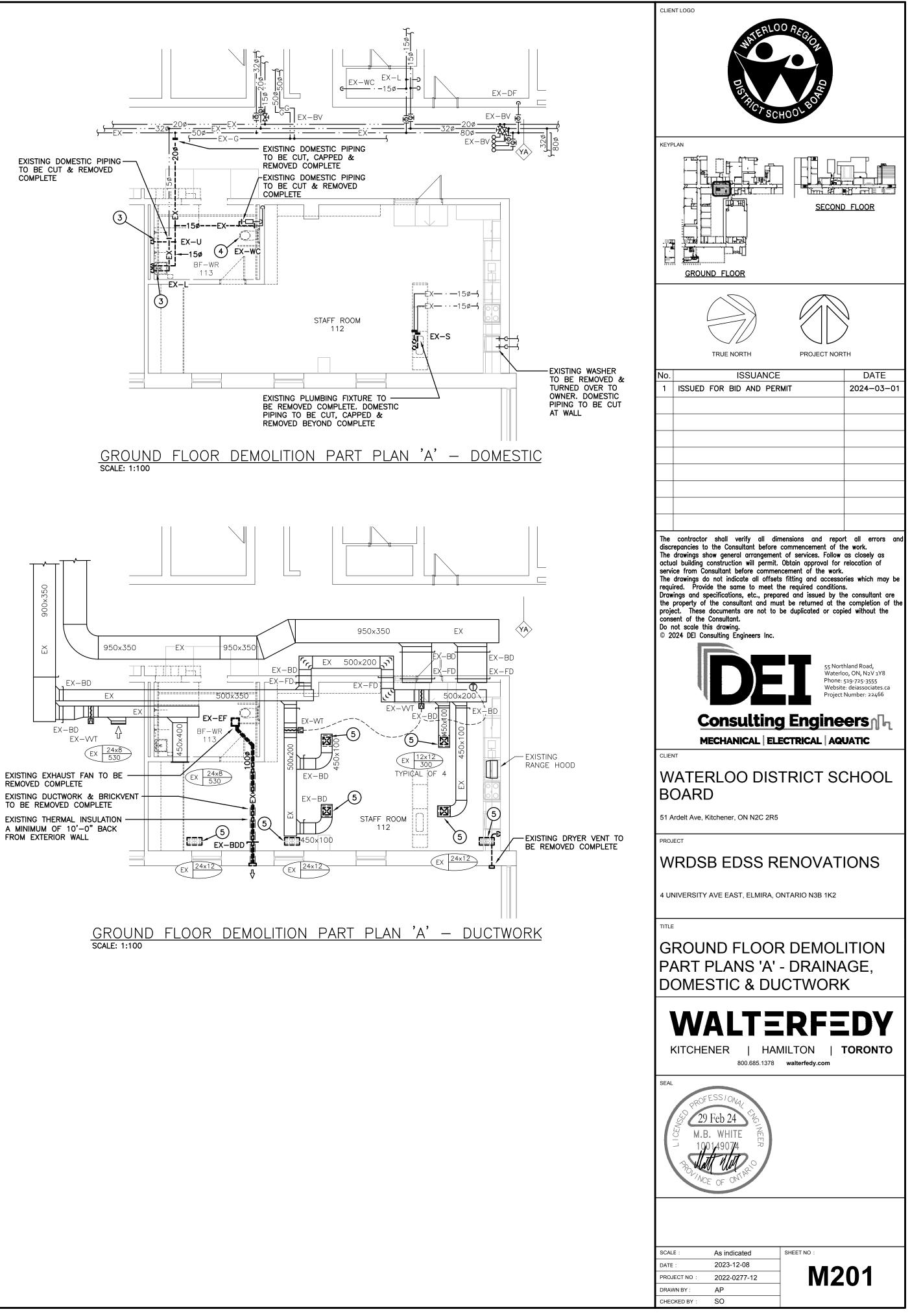
### GENERAL DEMOLITION NOTES

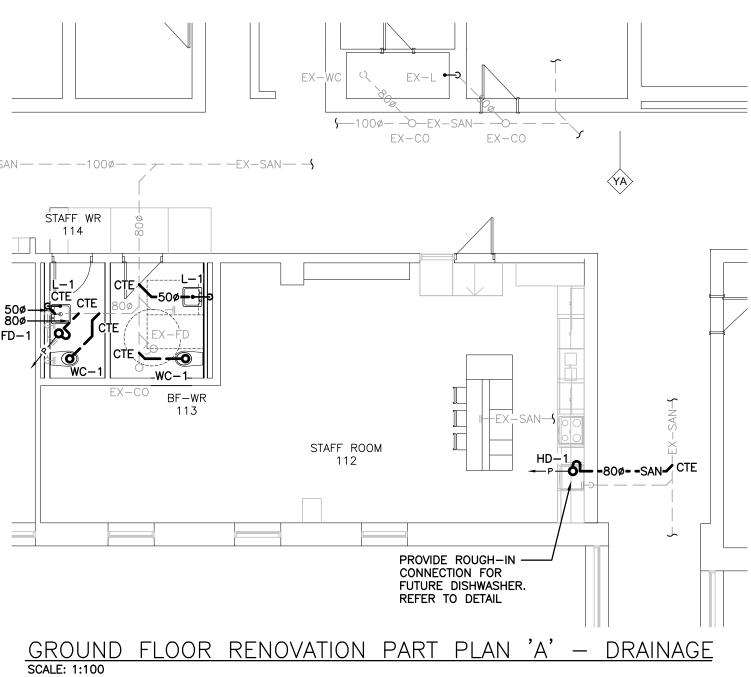
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC. MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE
- MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

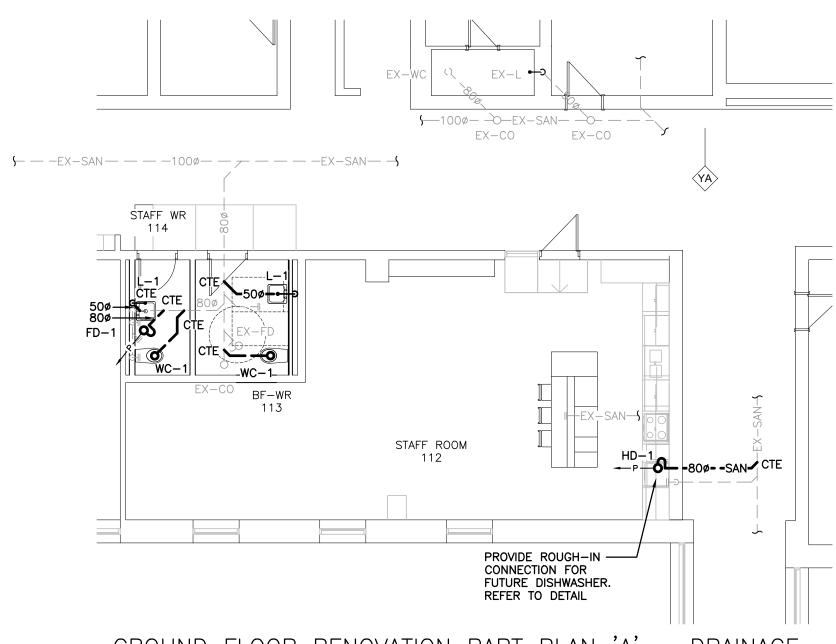
### SPECIFIC DEMOLITION NOTES

- 1. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY PIPING TO BE CUT AND CAPPED AT WALL/FLOOR.
- 2. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE.
- 3. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING DOMESTIC PIPING TO BE REMOVED COMPLETE.
- 4. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING DOMESTIC PIPING TO BE CUT AND CAPPED AT WALL/FLOOR & REMOVED BEYOND COMPLETE.
- 5. EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE.



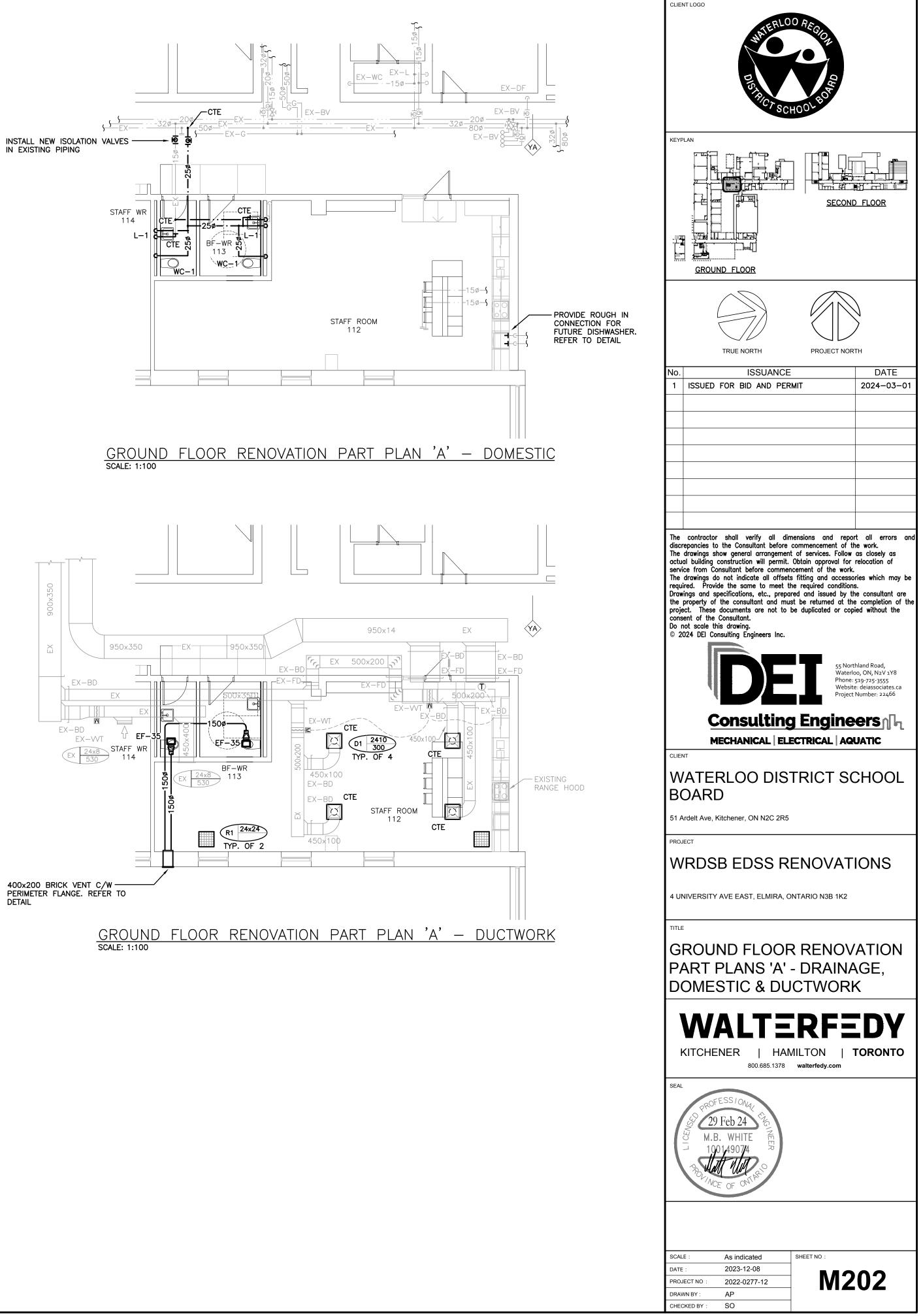


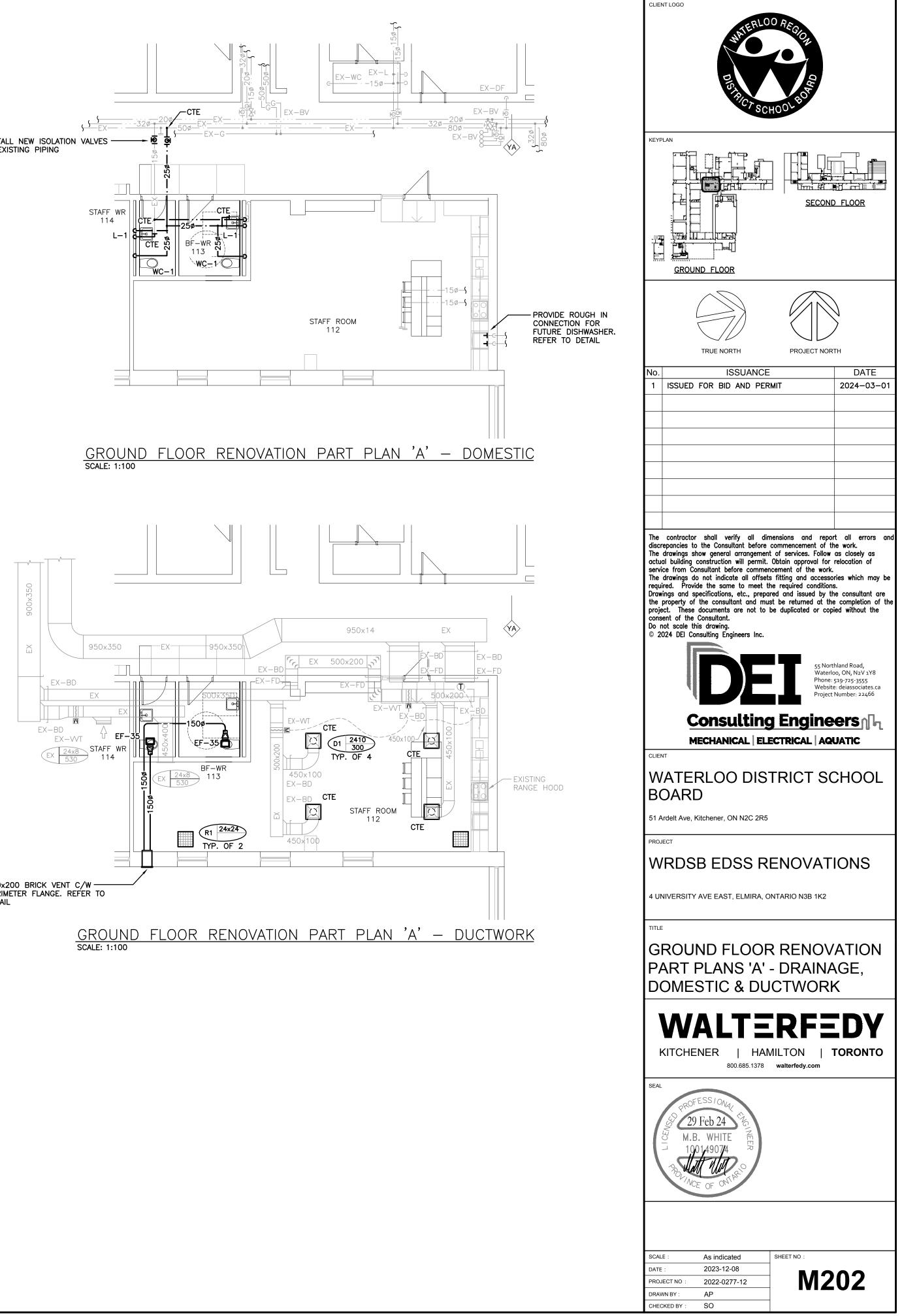


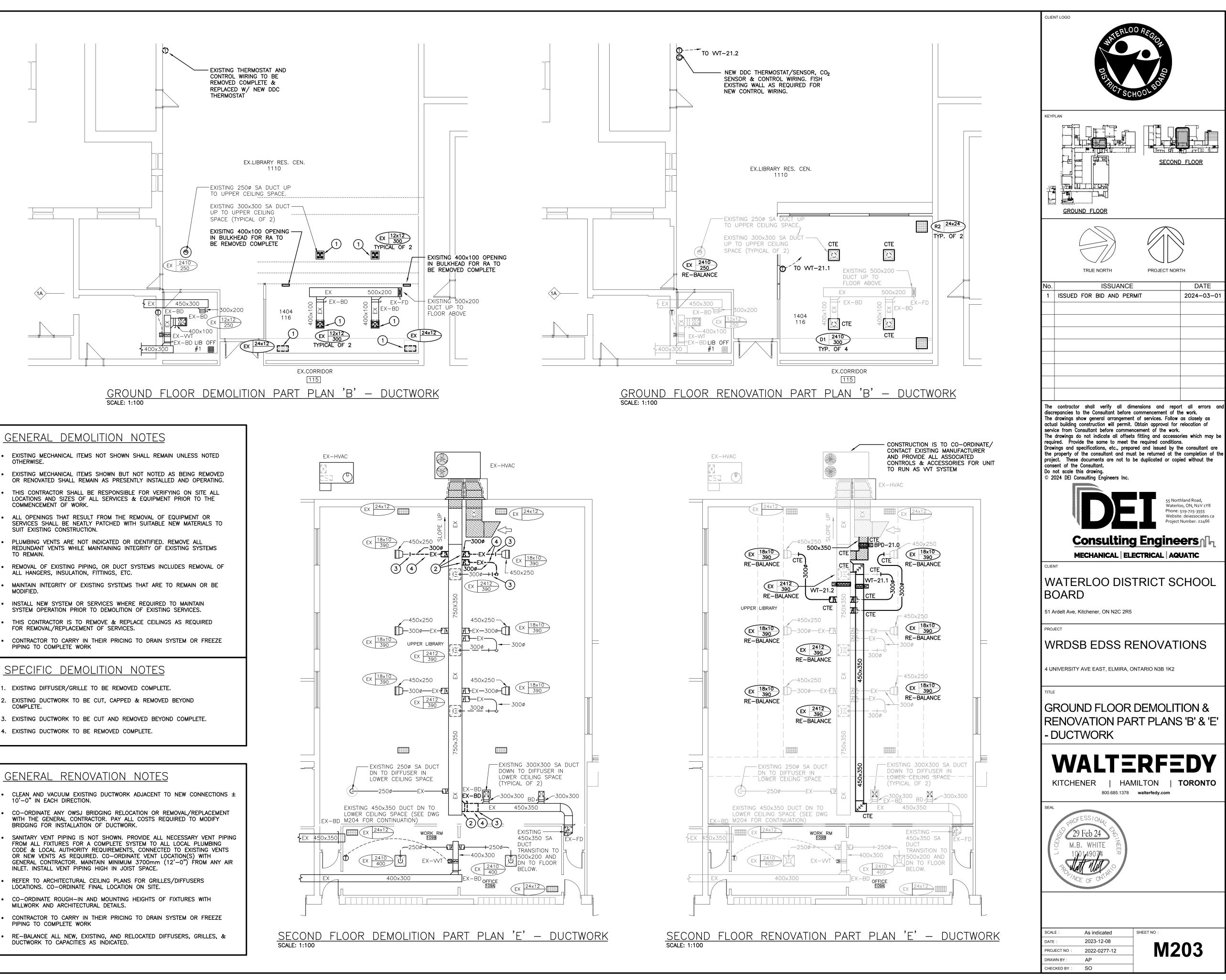


# GENERAL RENOVATION NOTES

- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$ 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK
- RE-BALANCE ALL NEW, EXISTING, AND RELOCATED DIFFUSERS, GRILLES, & DUCTWORK TO CAPACITIES AS INDICATED.







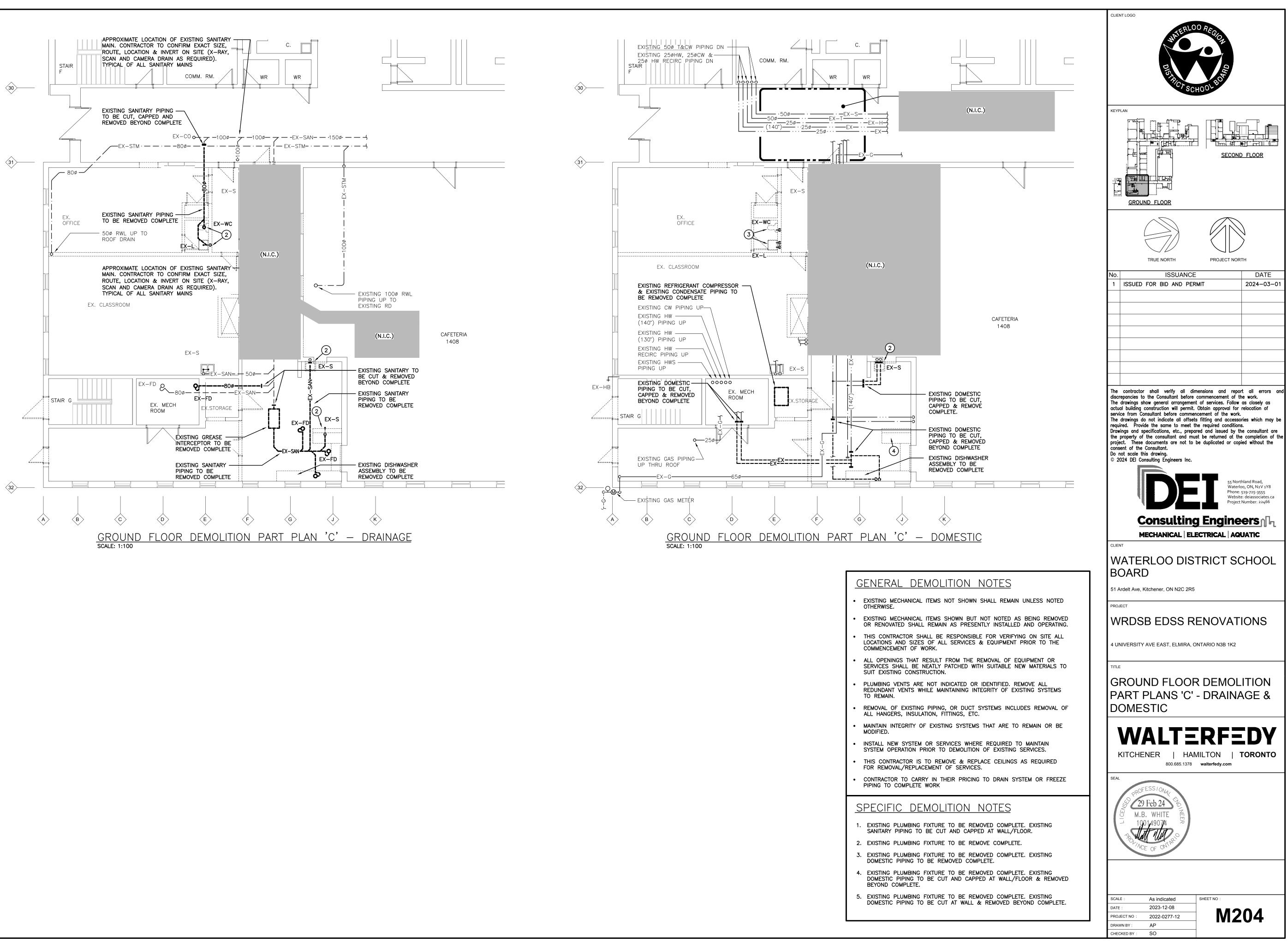
### GENERAL DEMOLITION NOTES

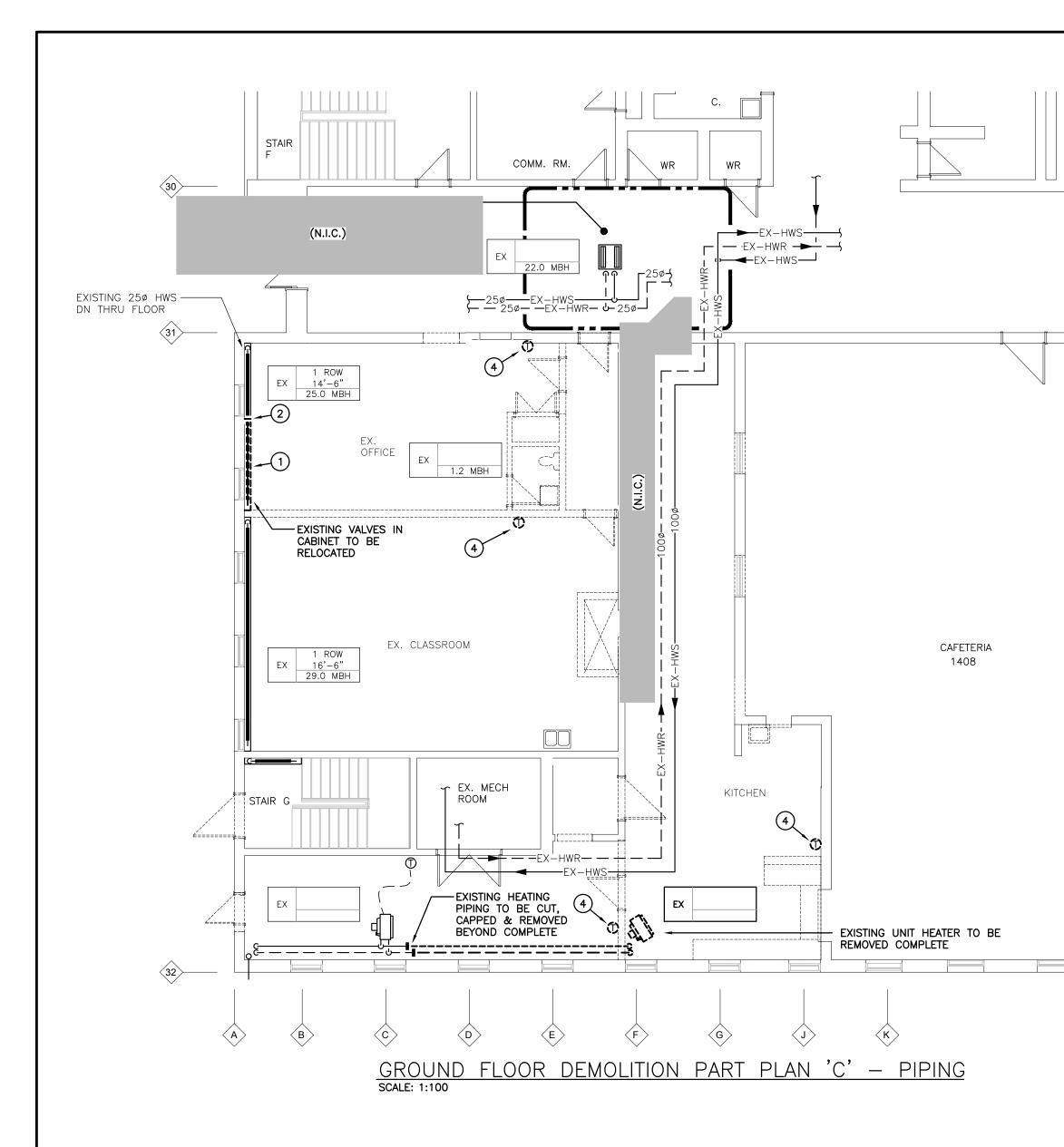
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK

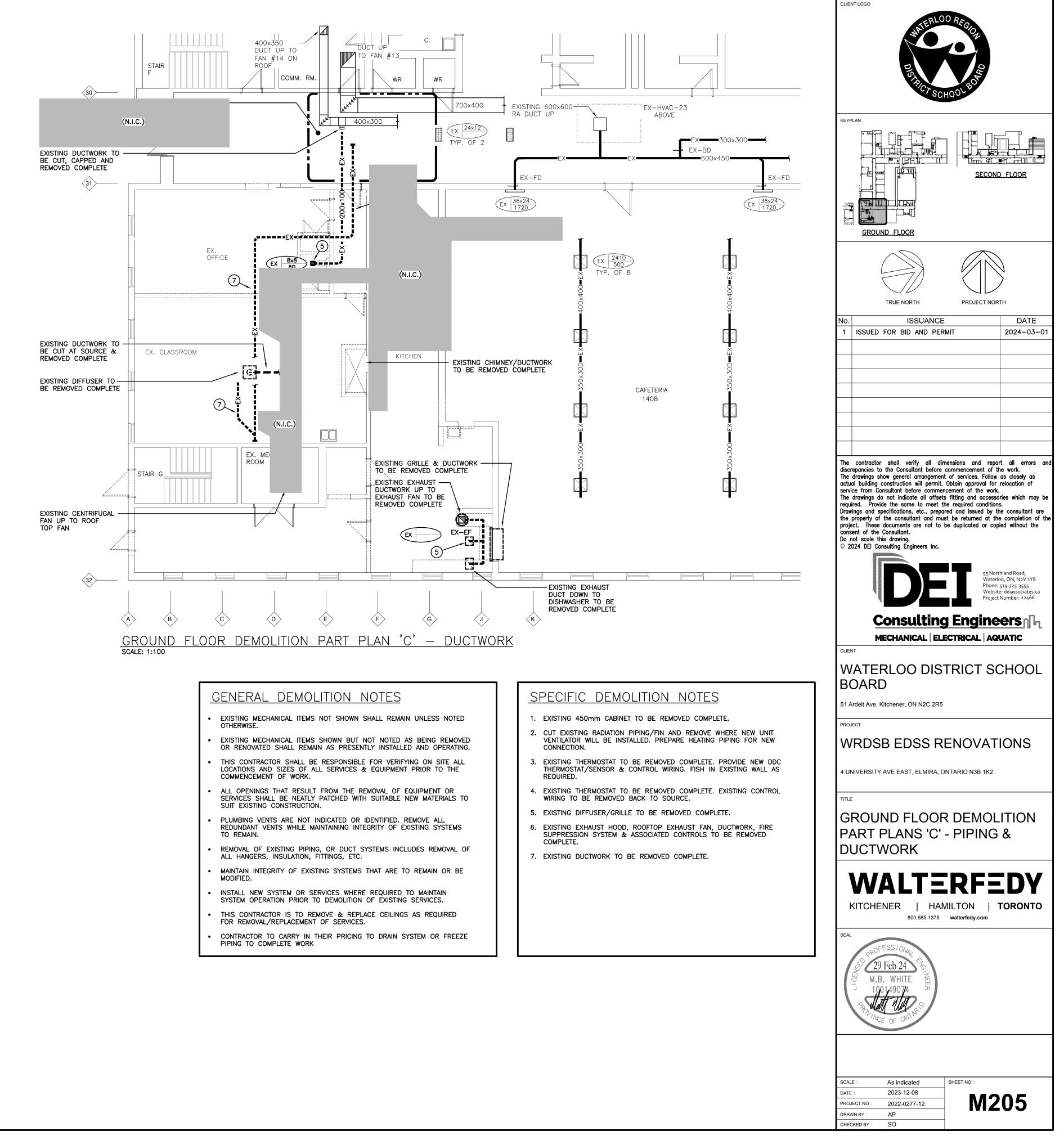
- . EXISTING DIFFUSER/GRILLE TO BE REMOVED COMPLETE.
- 2. EXISTING DUCTWORK TO BE CUT, CAPPED & REMOVED BEYOND
- 3. EXISTING DUCTWORK TO BE CUT AND REMOVED BEYOND COMPLETE.
- 4. EXISTING DUCTWORK TO BE REMOVED COMPLETE.

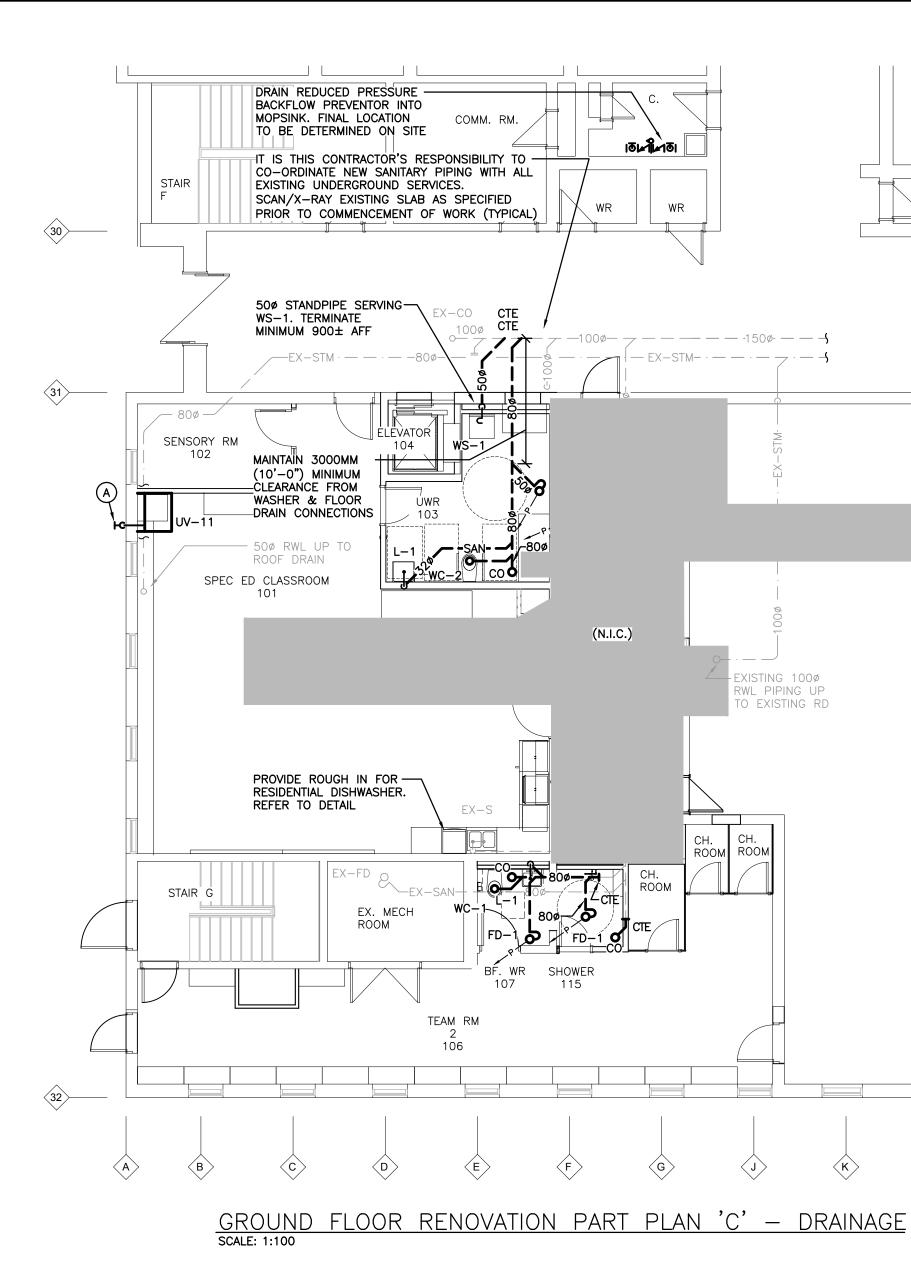
### GENERAL RENOVATION NOTES

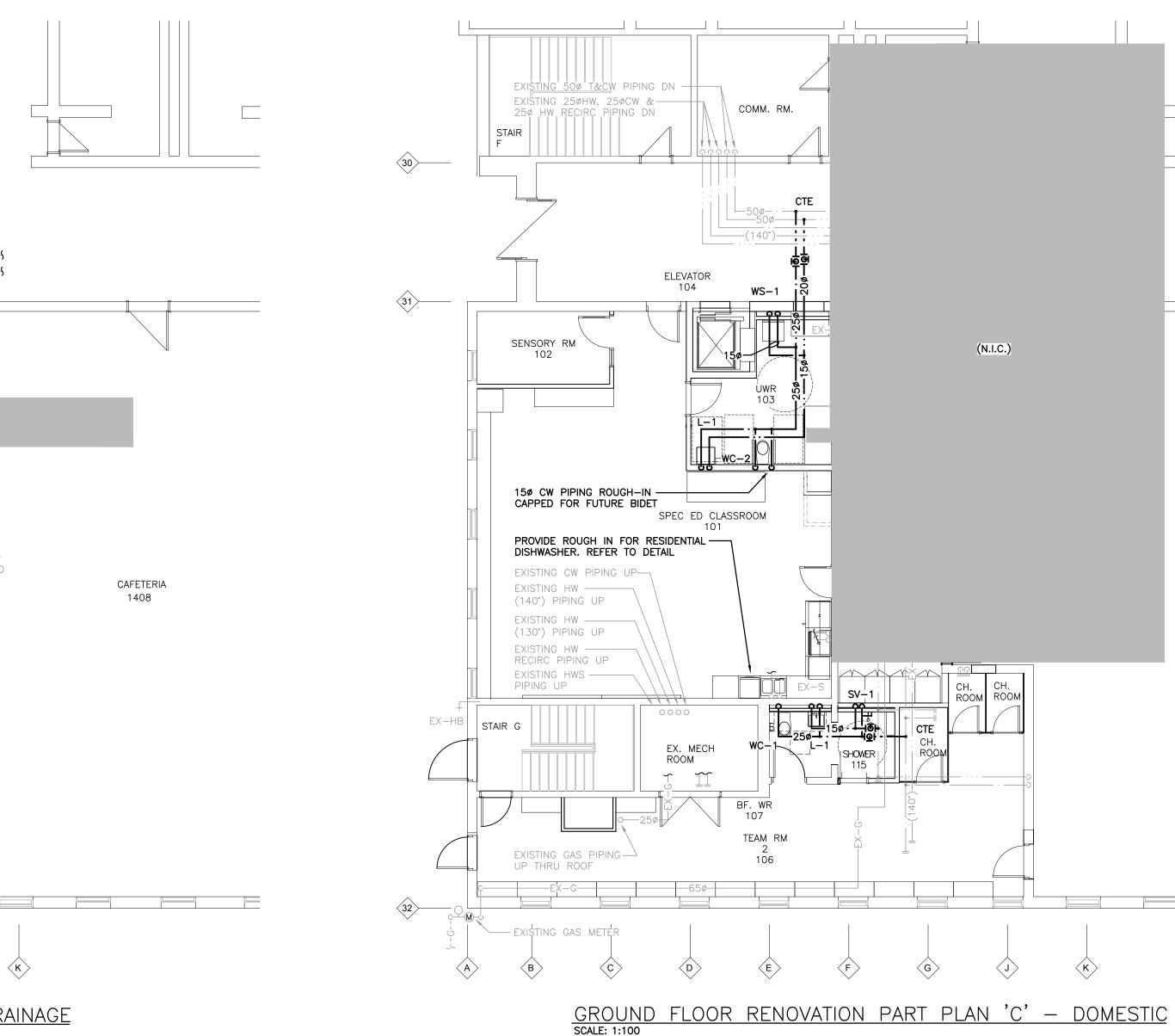
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$ 10'-0" IN EACH DIRECTION.
- WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (12'-0") FROM ANY AIR
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE
- RE-BALANCE ALL NEW, EXISTING, AND RELOCATED DIFFUSERS, GRILLES, & DUCTWORK TO CAPACITIES AS INDICATED.





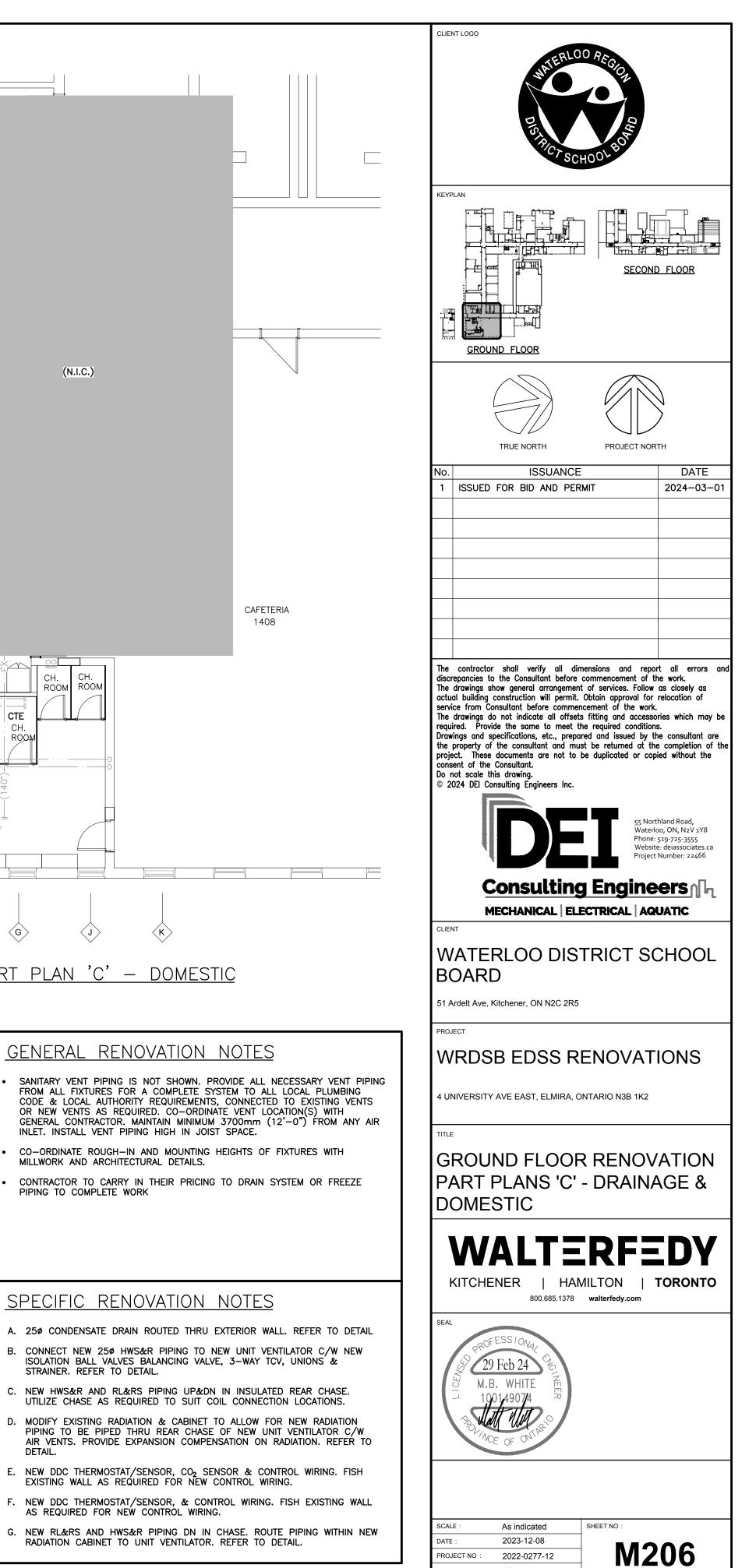






PIPING TO COMPLETE WORK

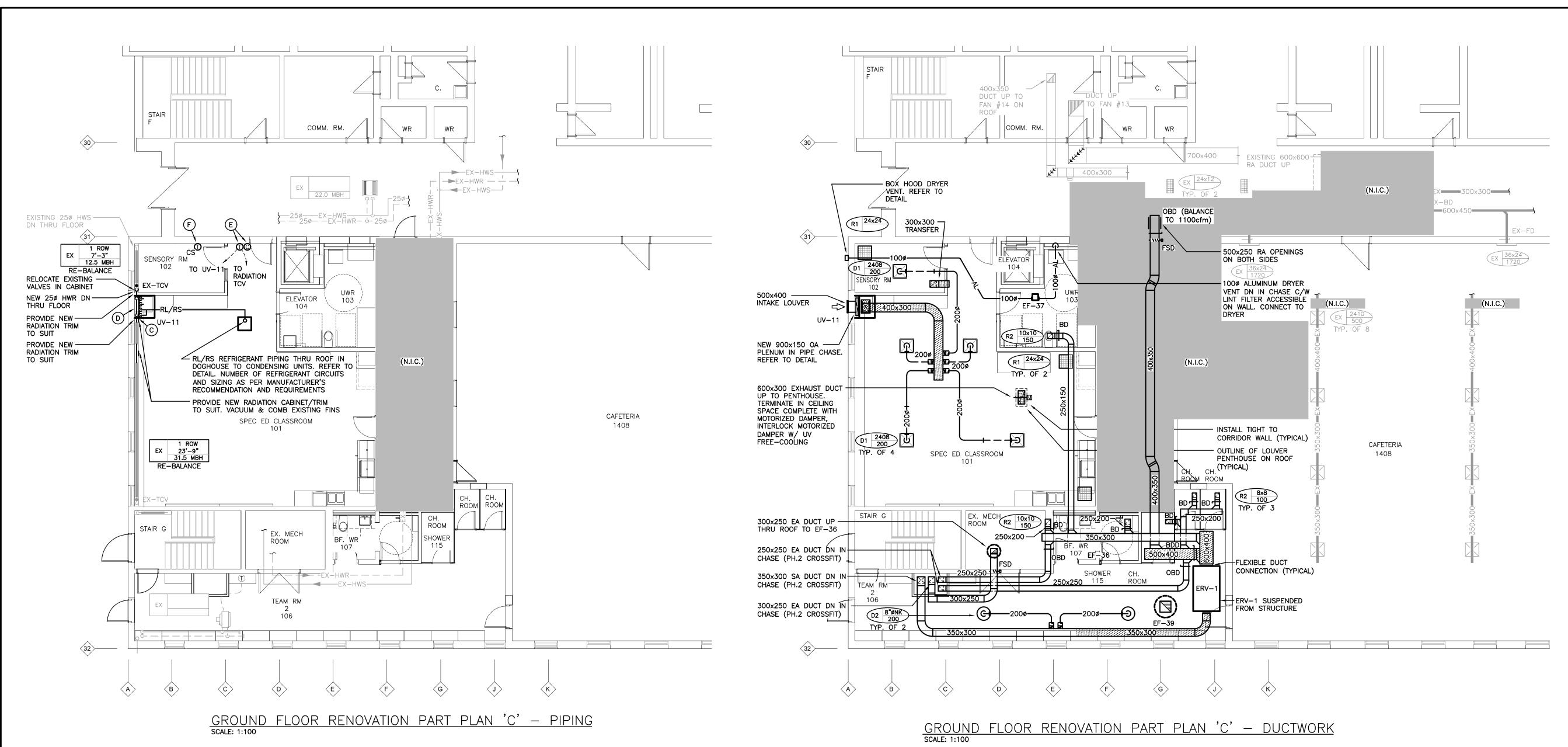
- STRAINER. REFER TO DETAIL.
- DETAIL.



RAWN BY

CHECKED BY :

AP SO



- 10'-0" IN EACH DIRECTION.

- PIPING TO COMPLETE WORK

- STRAINER. REFER TO DETAIL.
- DETAIL
- AS REQUIRED FOR NEW CONTROL WIRING.

# GENERAL RENOVATION NOTES

CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$ • CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT

WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK. REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS

LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE. CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE

RE-BALANCE ALL NEW, EXISTING, AND RELOCATED DIFFUSERS, GRILLES, & DUCTWORK TO CAPACITIES AS INDICATED.

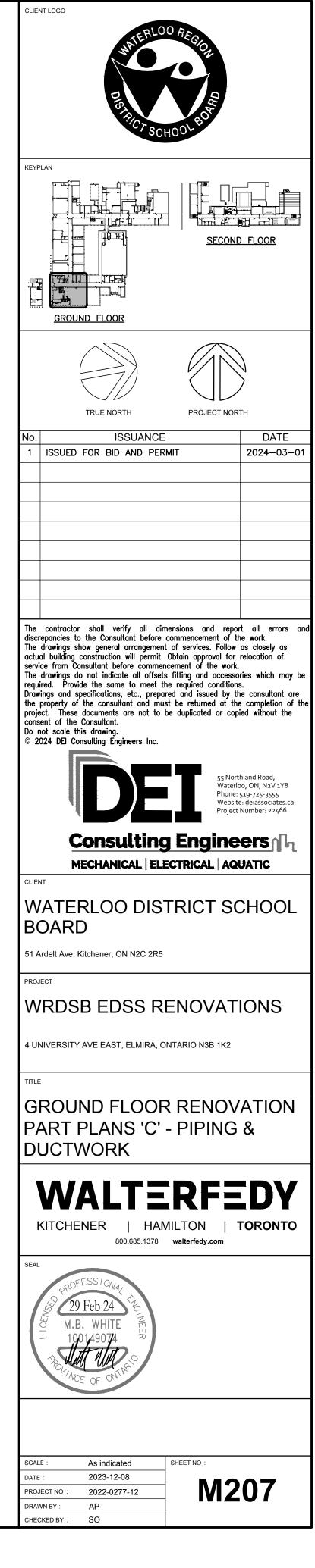
### SPECIFIC RENOVATION NOTES

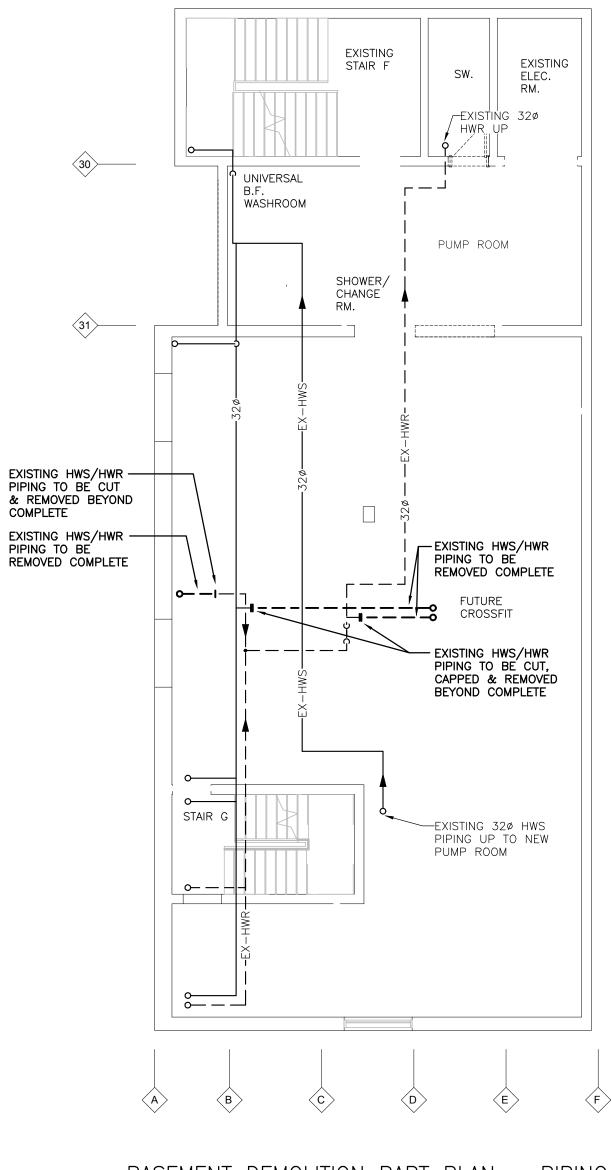
A. 25¢ CONDENSATE DRAIN ROUTED THRU EXTERIOR WALL, REFER TO DETAIL B. CONNECT NEW 250 HWS&R PIPING TO NEW UNIT VENTILATOR C/W NEW ISOLATION BALL VALVES BALANCING VALVE, 3-WAY TCV, UNIONS &

NEW HWS&R AND RL&RS PIPING UP&DN IN INSULATED REAR CHASE. UTILIZE CHASE AS REQUIRED TO SUIT COIL CONNECTION LOCATIONS. MODIFY EXISTING RADIATION & CABINET TO ALLOW FOR NEW RADIATION PIPING TO BE PIPED THRU REAR CHASE OF NEW UNIT VENTILATOR C/W AIR VENTS. PROVIDE EXPANSION COMPENSATION ON RADIATION. REFER TO

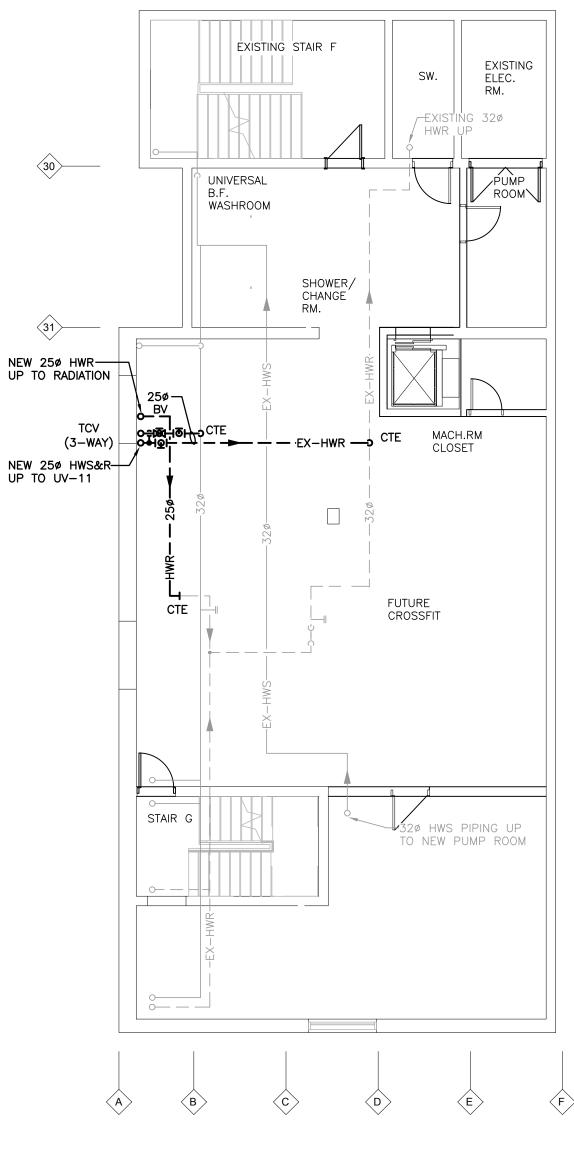
NEW DDC THERMOSTAT/SENSOR,  $CO_2$  SENSOR & CONTROL WIRING. FISH EXISTING WALL AS REQUIRED FOR NEW CONTROL WIRING. NEW DDC THERMOSTAT/SENSOR, & CONTROL WIRING. FISH EXISTING WALL

NEW RL&RS AND HWS&R PIPING DN IN CHASE. ROUTE PIPING WITHIN NEW RADIATION CABINET TO UNIT VENTILATOR. REFER TO DETAIL.





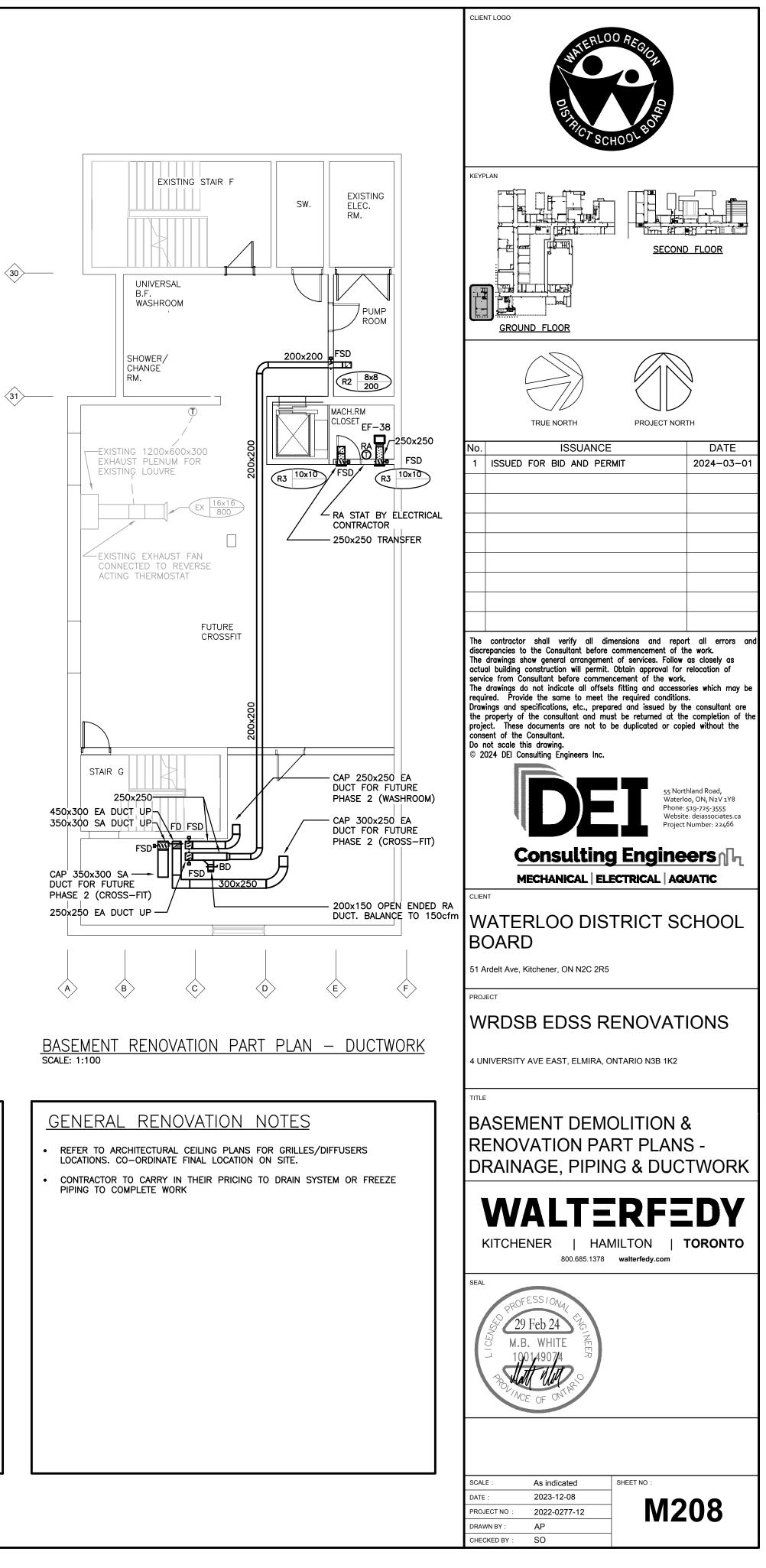


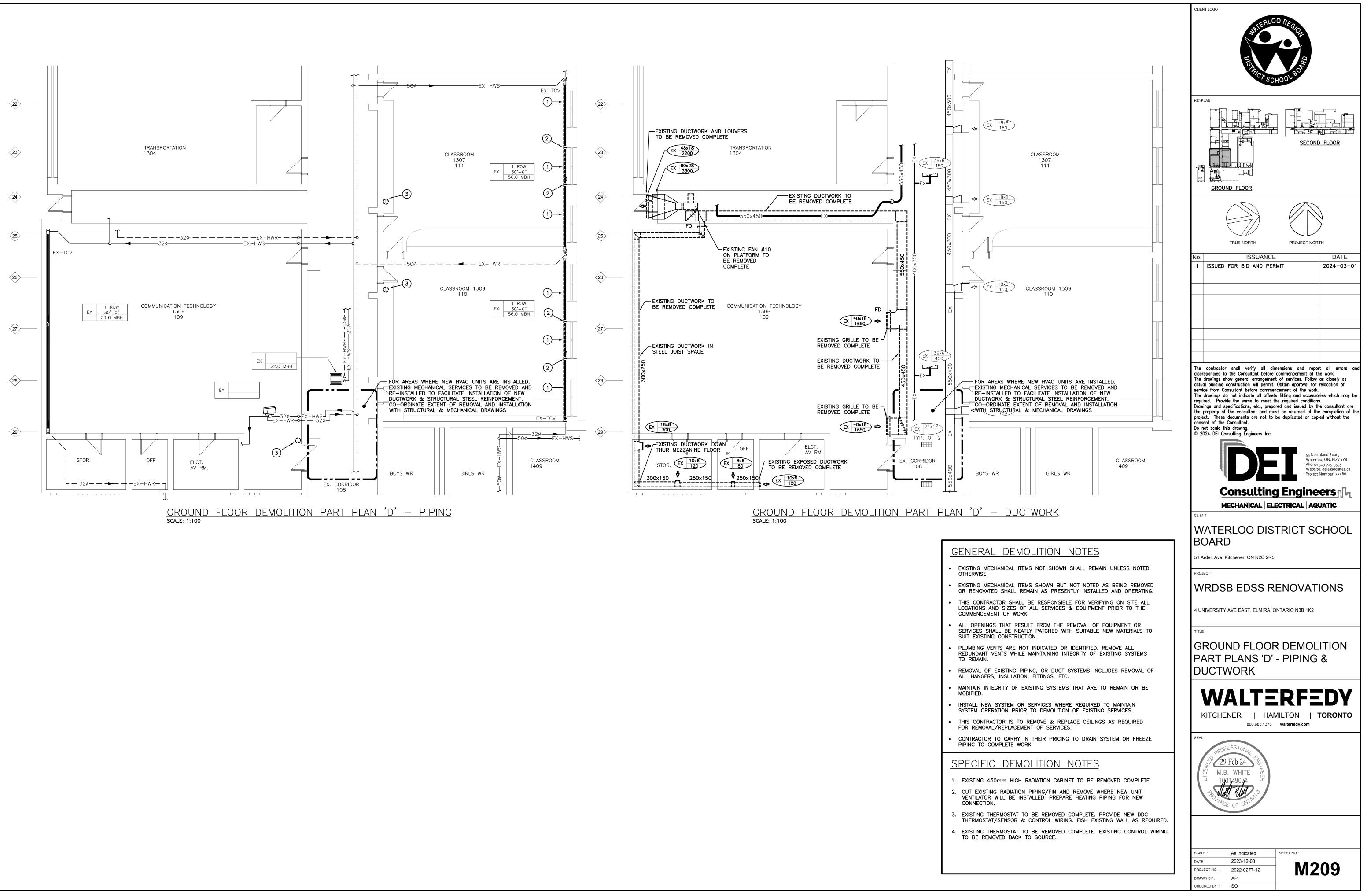


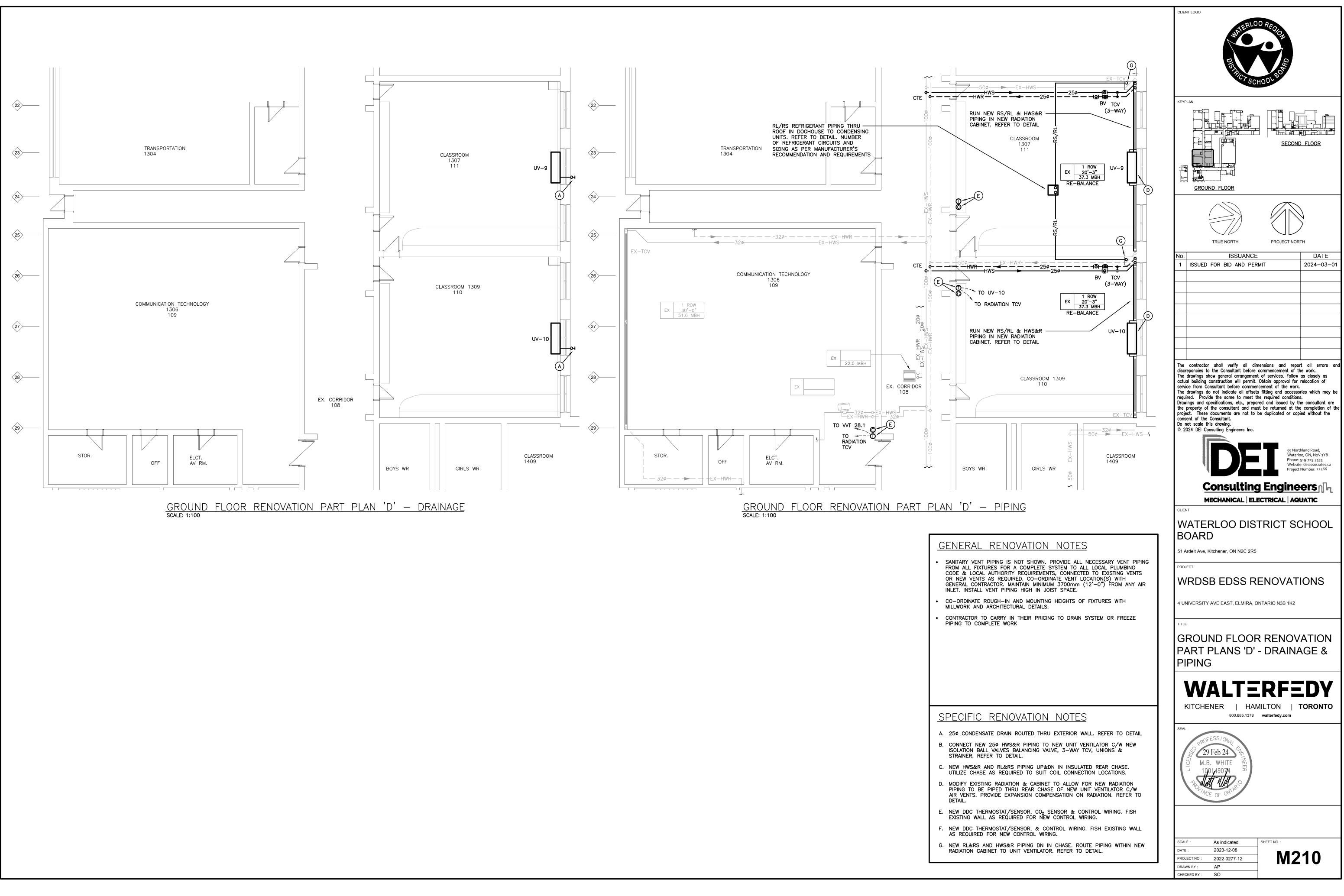
BASEMENT RENOVATION PART PLAN - PIPING SCALE: 1:100

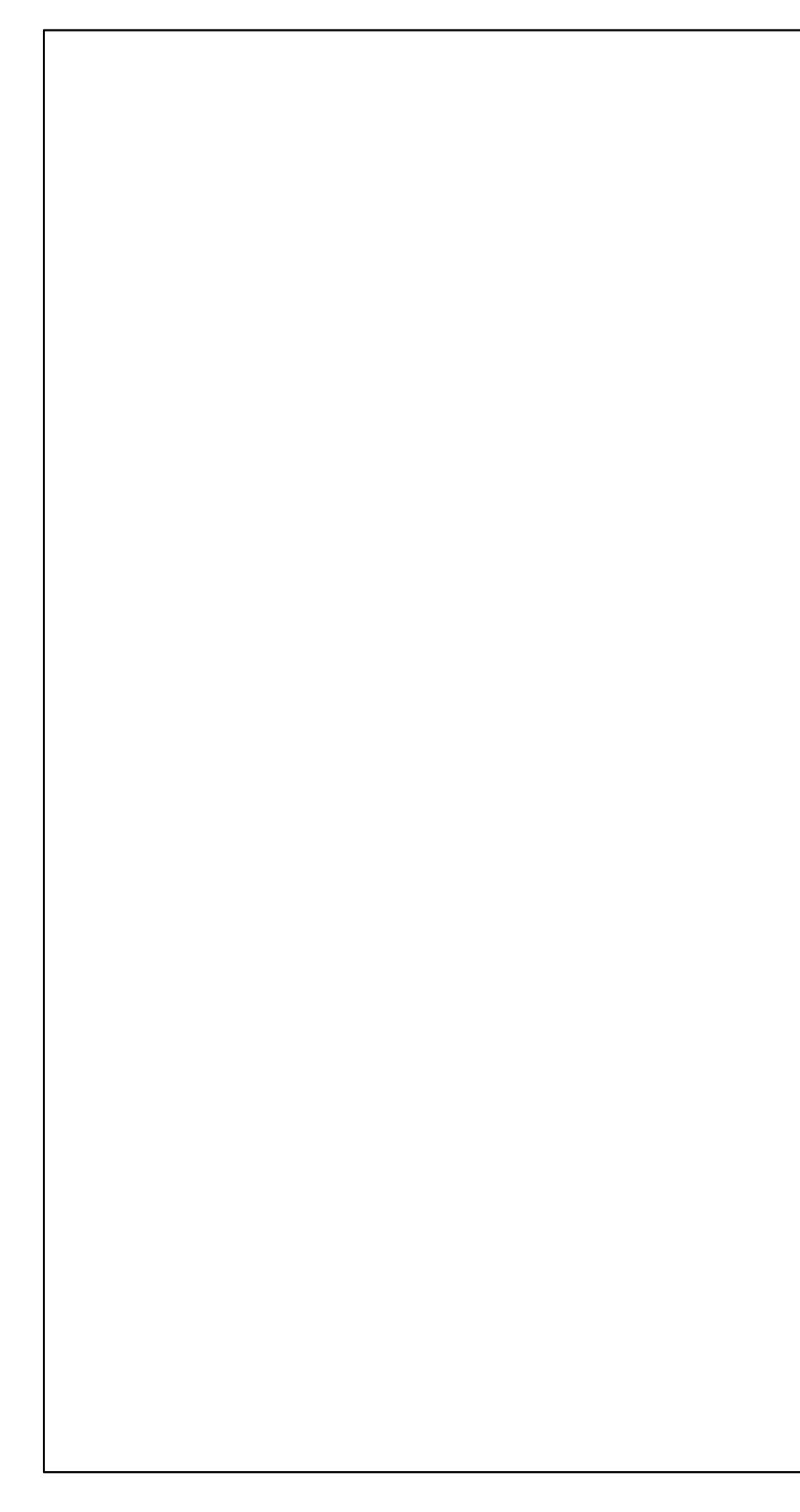
GENERAL DEMOLITION NOTES

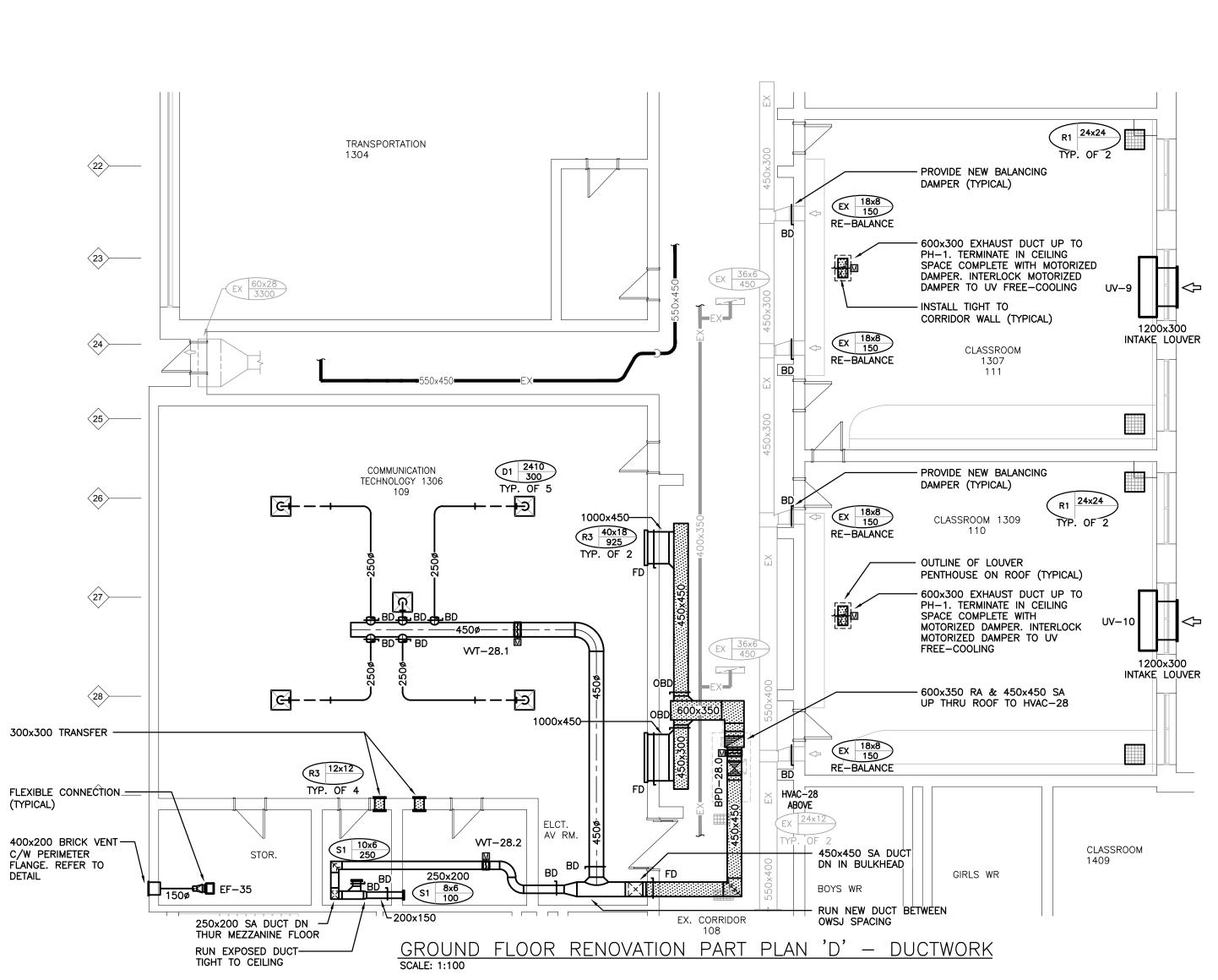
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK











- 10'-0" IN EACH DIRECTION.

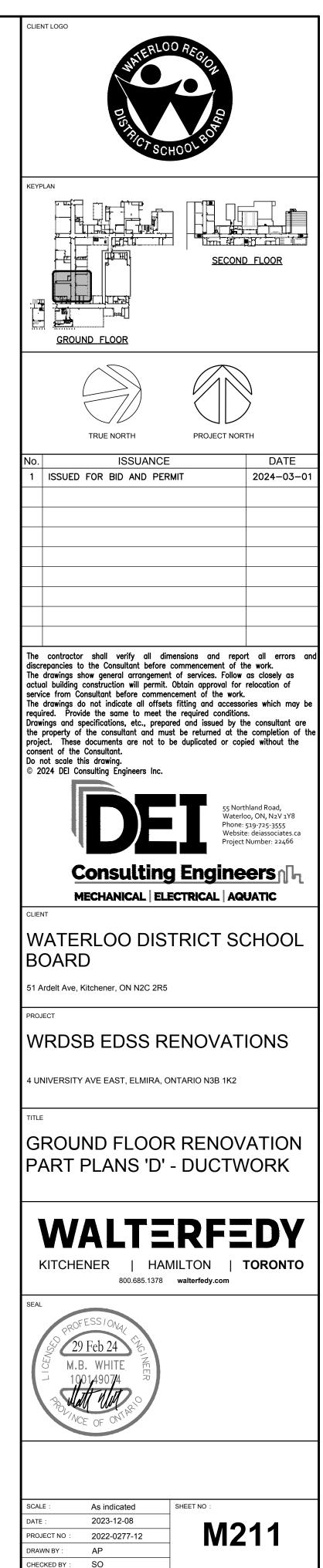
# GENERAL RENOVATION NOTES

CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$ 

CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.

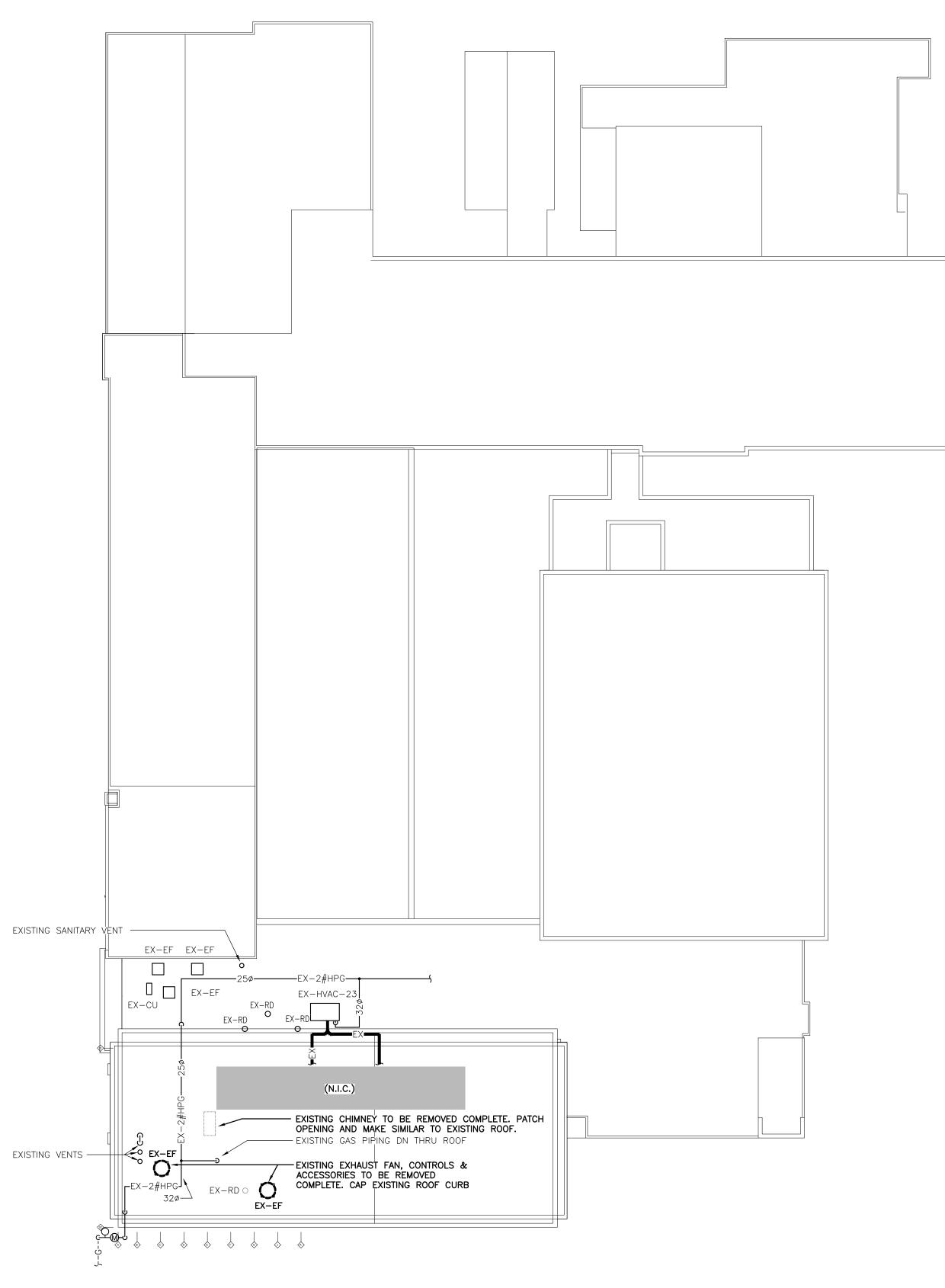
REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.

RE-BALANCE ALL NEW, EXISTING, AND RELOCATED DIFFUSERS, GRILLES, & DUCTWORK TO CAPACITIES AS INDICATED.

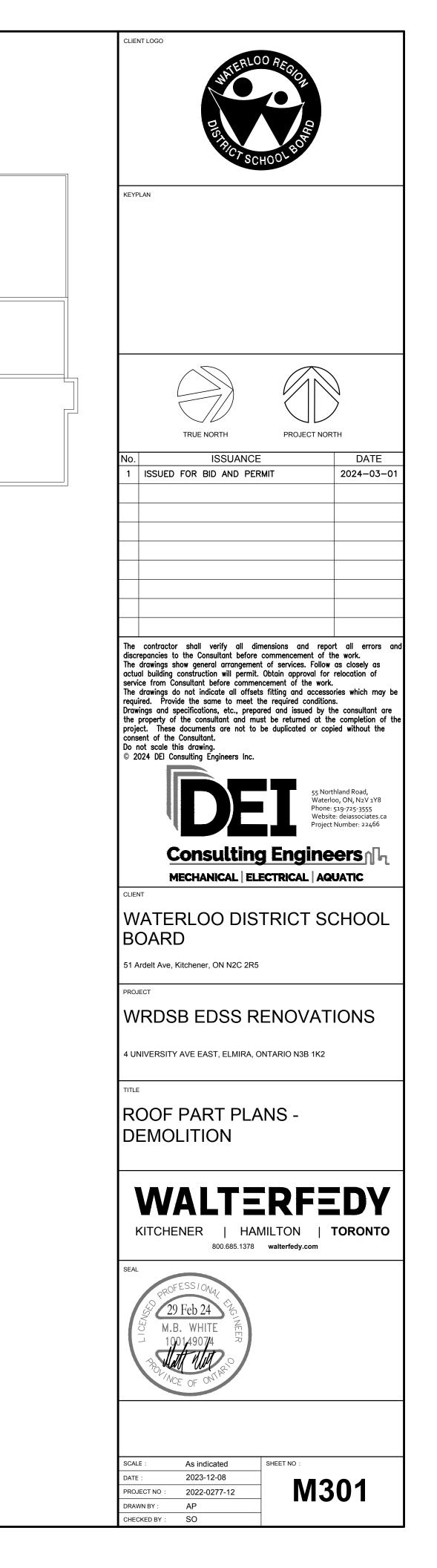


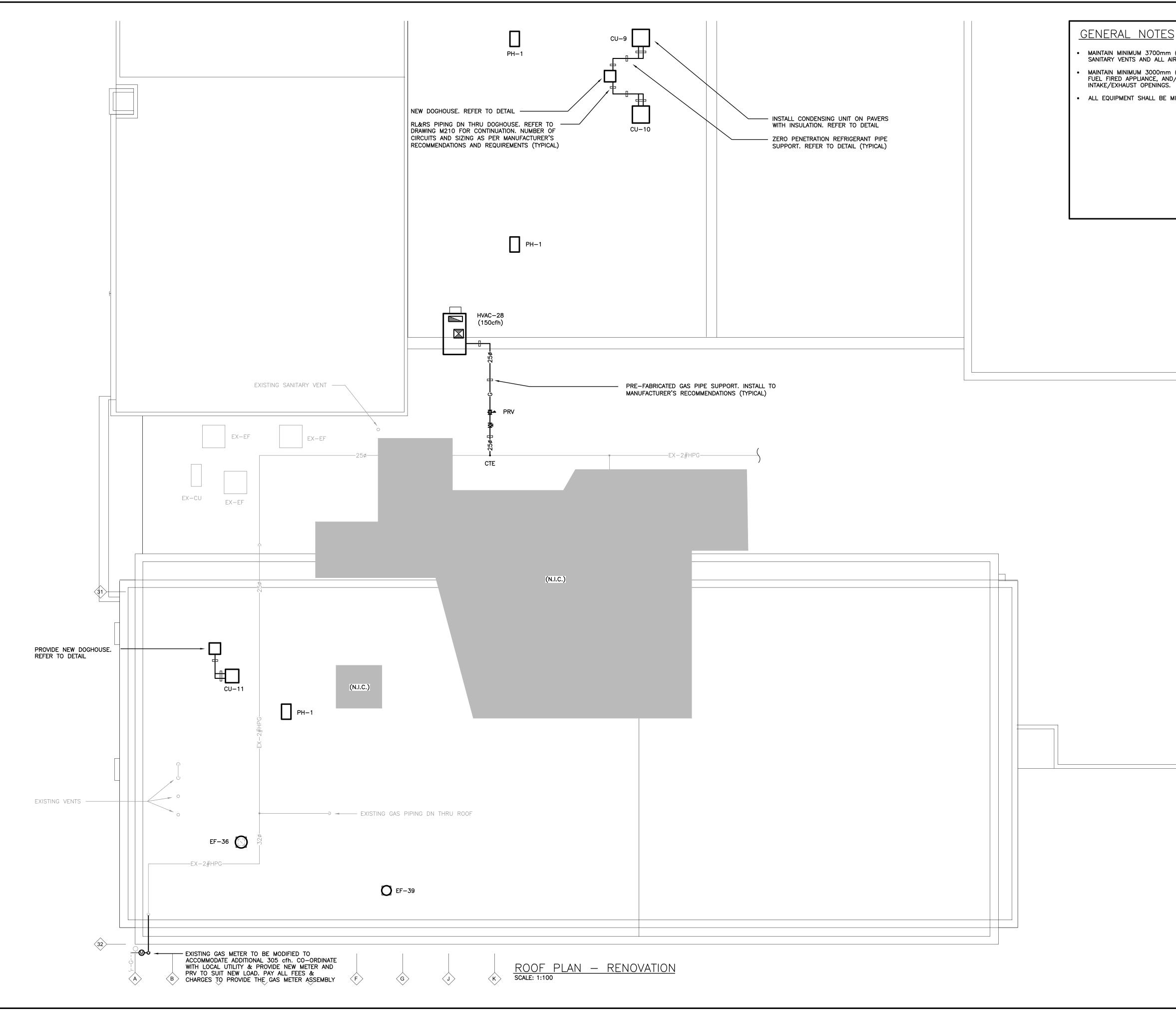
# <u>GENERAL NOTES</u>

- MAINTAIN MINIMUM 3700mm (12'–0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0M FROM EDGE OF ROOF.
- MAINTAIN MINIMUM 7500mm (25'-0") FROM COOLING TOWER EXHAUST TO ANY INTAKE/MECHANICAL OPENING



ROOF PLAN - DEMOLITION scale: 1:300





MAINTAIN MINIMUM 3700mm (12'–0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS. MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR

• ALL EQUIPMENT SHALL BE MINIMUM 3.0M FROM EDGE OF ROOF.





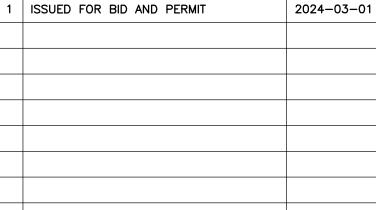
KEYPLAN





DATE

ISSUANCE ISSUED FOR BID AND PERMIT



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.



55 Northland Road, Waterloo, ON, N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 22466

Consulting Engineers MECHANICAL | ELECTRICAL | AQUATIC

### CLIENT

WATERLOO DISTRICT SCHOOL BOARD

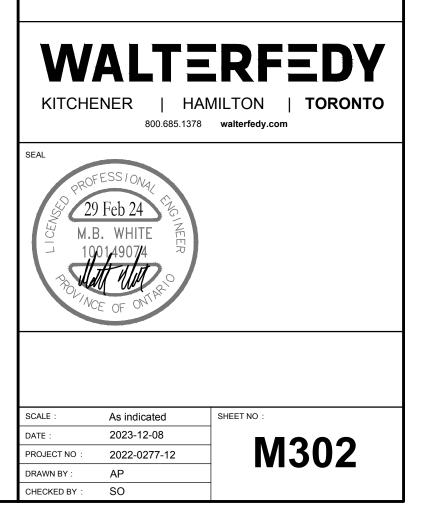
51 Ardelt Ave, Kitchener, ON N2C 2R5

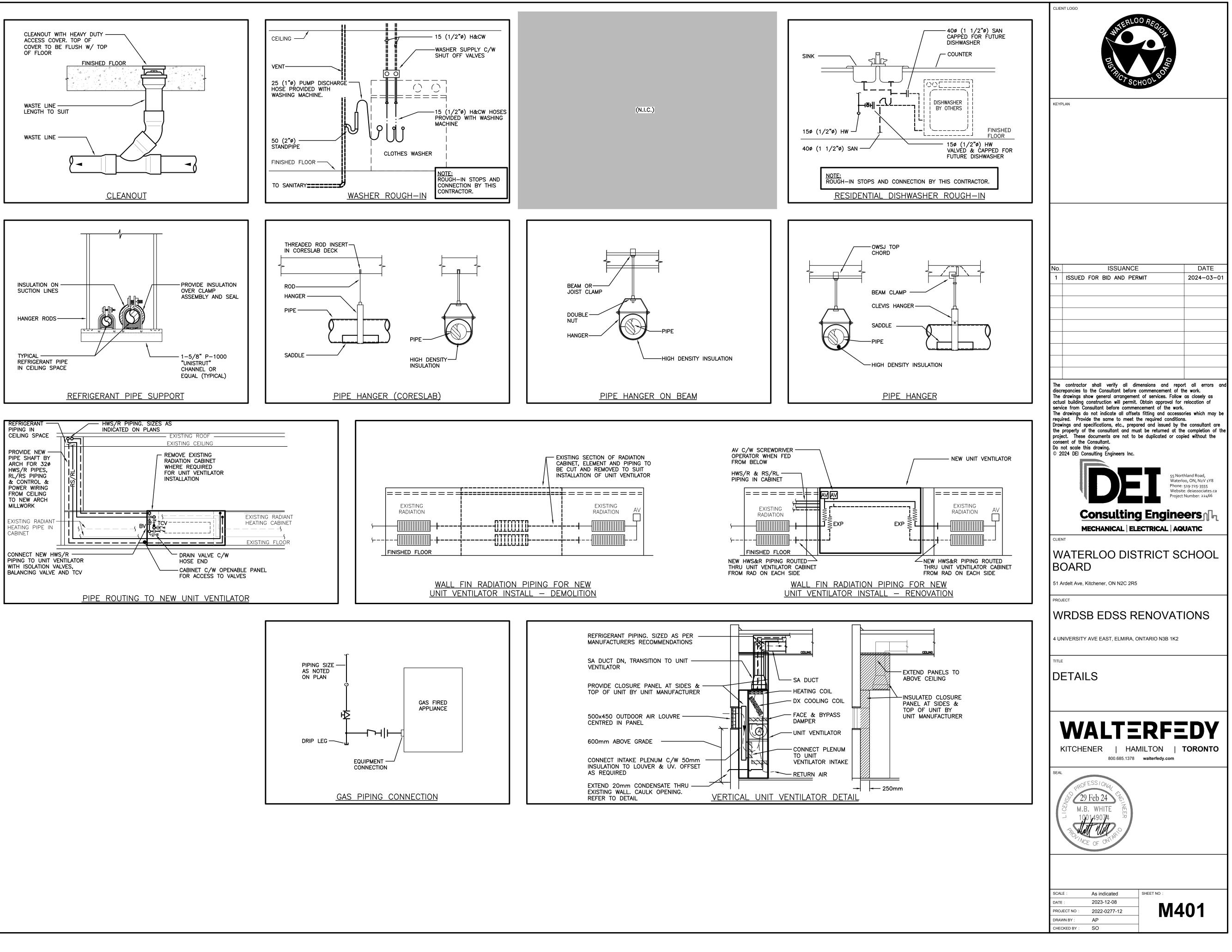
PROJECT

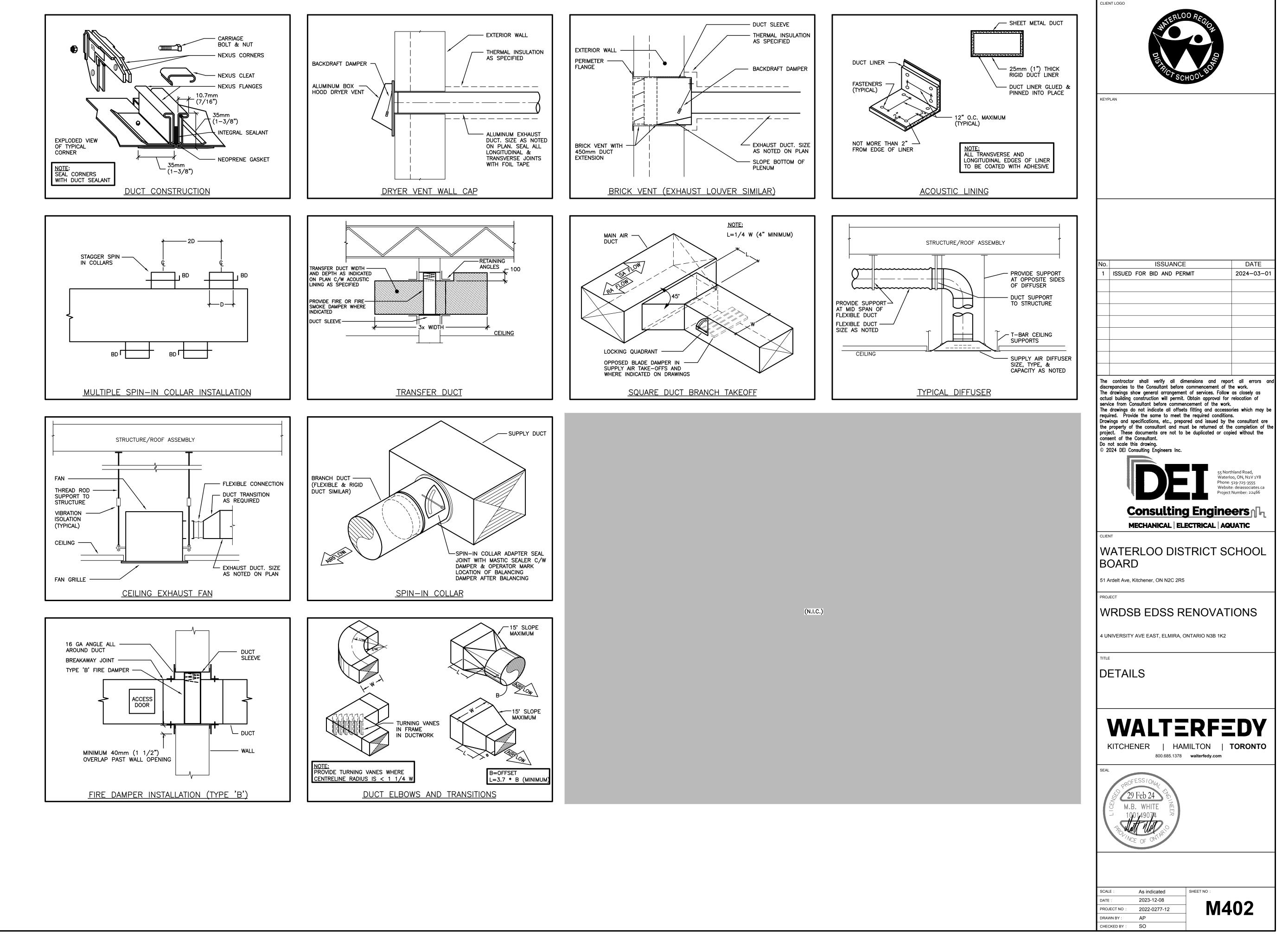
# WRDSB EDSS RENOVATIONS

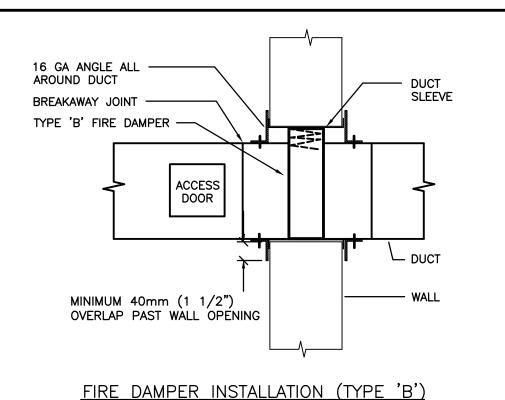
4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

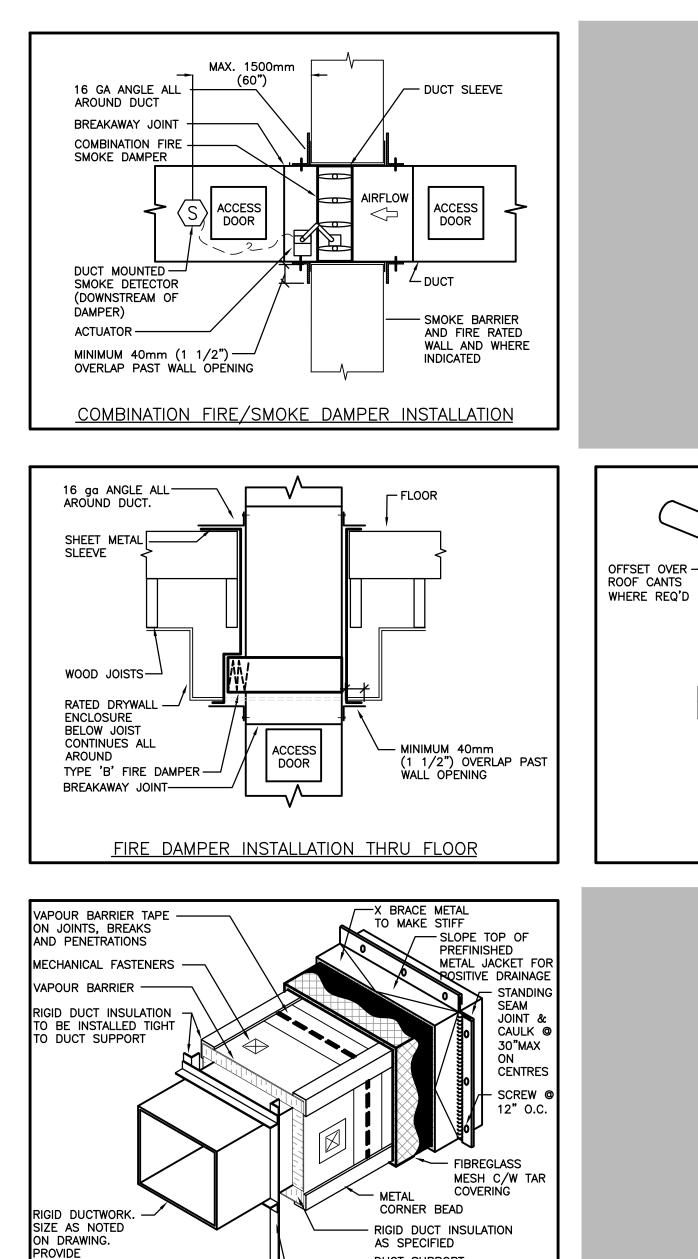
ROOF PART PLANS -RENOVATION











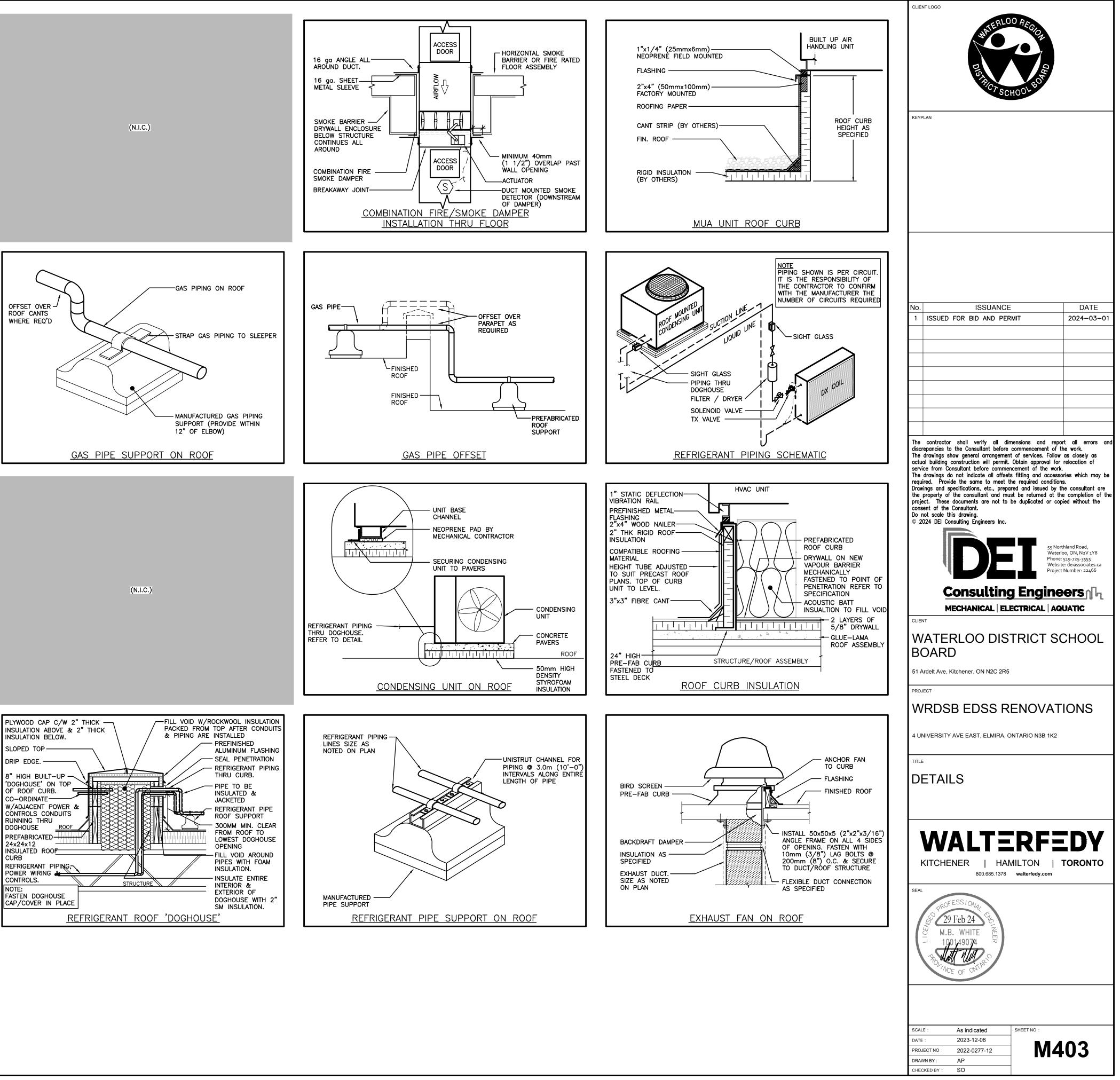
- DUCT SUPPORT

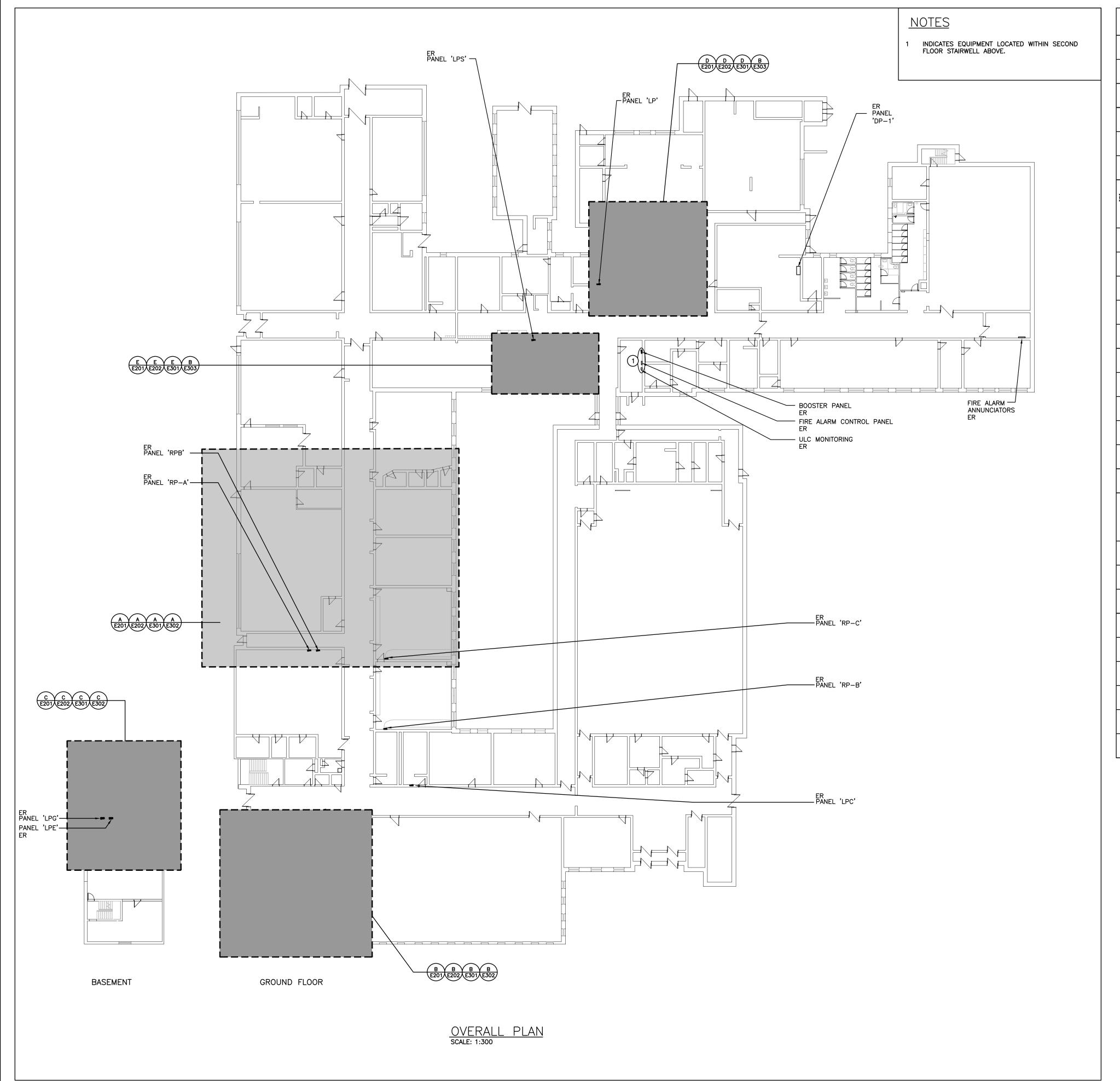
EXTERIOR DUCT INSTALLATION

ACOUSTIC LINING

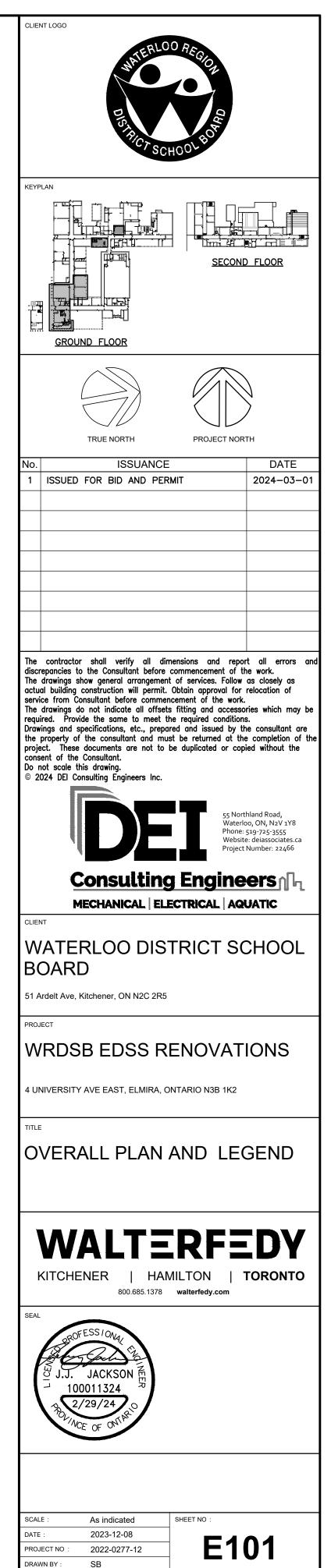
WHERE INDICATED

INSULATION BELOW. SLOPED TOP -----DRIP EDGE. -8" HIGH BUILT-UP -OF ROOF CURB. CO-ORDINATE-----RUNNING THRU DOGHOUSE PREFABRICATED 24x24x12 INSULATED ROOF CURB POWER WIRING CONTROLS. NOTE: FASTEN DOGHOUSE



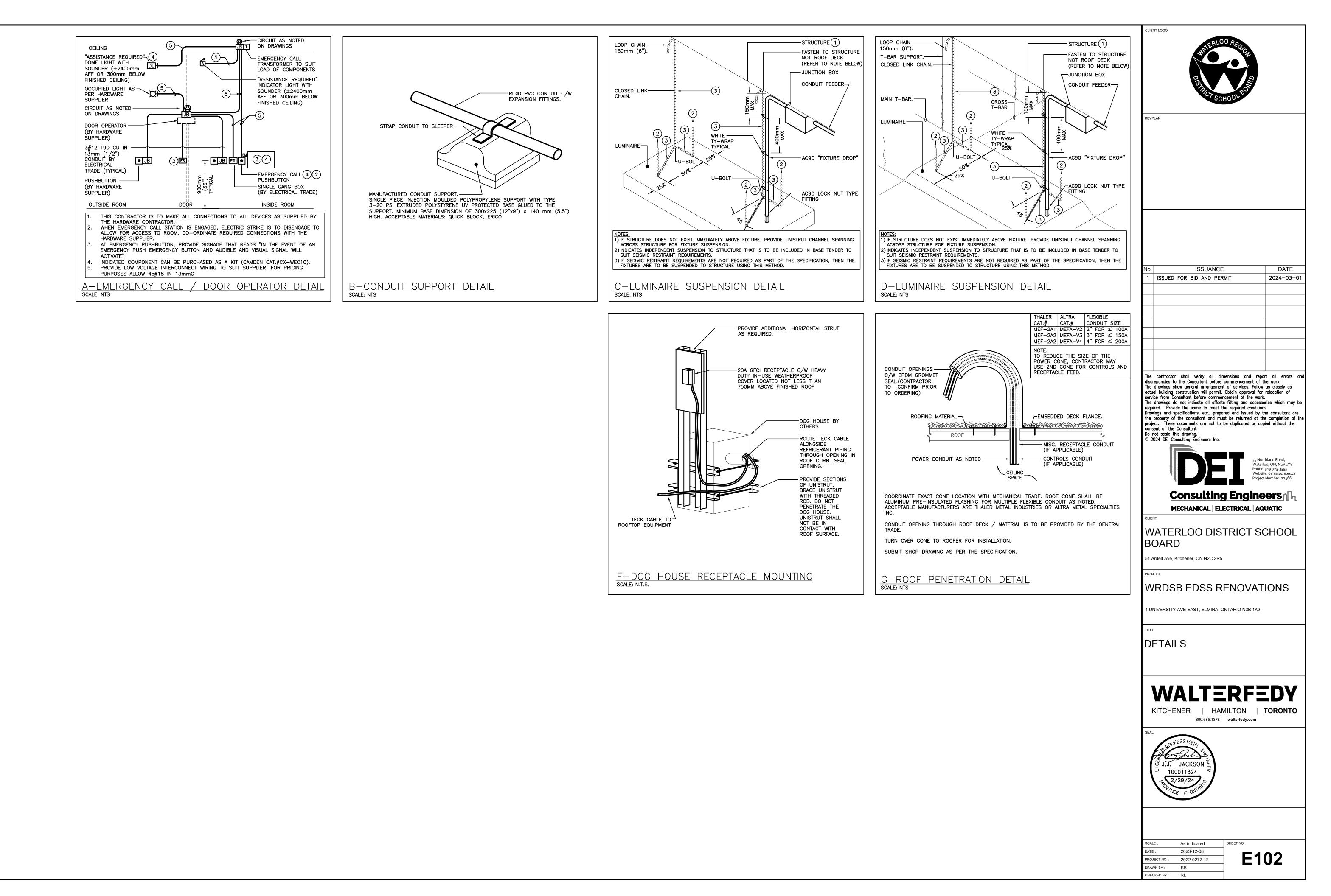


ELE	CTRICAL SYMBOLS	NOT	E: ALL SYMBOLS MAY NOT BE USED
	LIGHTING		POWER
	LIGHT FIXTURE TYPE AS INDICATED	ዋ	WALL MOUNTED RECEPTACLE (15A–120V)
x x	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED	P	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
×	WALL MOUNTED EXIT LIGHT SHADING INDICATES FACE	Æ	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
1 <b>Q</b> T	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE	₽ſs	RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)
	EMERGENCY FIXTURE WITH INTEGRAL BATTERY UNIT	<b>₽</b> <sub>st</sub>	STOVE RECEPTACLE
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM-X INDICATES BATTERY UNIT	٥	DIRECT CONNECTION
œ <b>uro</b> <sub>x~x</sub> ^	AND X-X INDICATES AC SOURCE CIRCUIT)		PANEL AS INDICATED
\$	SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)	ď	FUSED DISCONNECT
\$ <sup>os</sup>	OCCUPANCY SENSOR (PASSIVE)	Ъ	UNFUSED DISCONNECT
DR	DIGITAL ROOM CONTROLLER	HD	HAND DRYER
PK	ANALOG POWER PACK	●	PUSH-BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
XB	DIGITAL WALL BUTTON STATION. 'X' DENOTES NUMBER OF BUTTONS	PP	POWER POLE
	FIRE ALARM	函	SOLENOID VALVE
8	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)	И	0-15 MINUTE INTERVAL TIMER
\$	SMOKE DETECTOR (RL=RELAY BASE)	Ŋ	EXHAUST FAN
Y	COMBINATION HORN/STROBE	Í	UNIT HEATER
	ALARM STROBE	CS	CURRENT SENSOR
	COMMUNICATIONS		GENERAL
<b>▼</b> #/#	COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE	ER	INDICATED EXISTING ITEM TO REMAIN
	MANAGEMENT SYSTEM. # INDICATES THE QUANTITY OF ACTIVE PARTS. LEFT VALUE ALWAYS INDICATES VOICE.	D	INDICATES EXISTING ITEM TO BE DELETED
WAP	WIRELESS ACCESS POINT. PROVIDE ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION
Ŧ	CLOCK AS PER SPECIFICATIONS	DW	DISWASHER
A	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)	GF	GROUND FAULT
	ACCESS CONTROL	WP	WEATHERPROOF
ES	ELECTRIC STRIKE. CONFIRM ROUGHIN WITH DOOR HARDWARE.	CLG	CEILING MOUNTED
PTL	"PUSH-TO-LOCK" BUTTON	X	NOTE INDICATOR
€EM	EMERGENCY PUSH BUTTON STATION	$\bigotimes$	MECHANICAL ITEM NO.
DLH	"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER	STA	NDARD CIRCUIT LABELING
à	"ASSISTANCE REQUIRED" INDICATOR LIGHT WITH SOUNDER	CIRCUIT	A-1-1 PANEL LABEL
		SWITCH	LEG (IF APPLICABLE)/



CHECKED BY :

RL



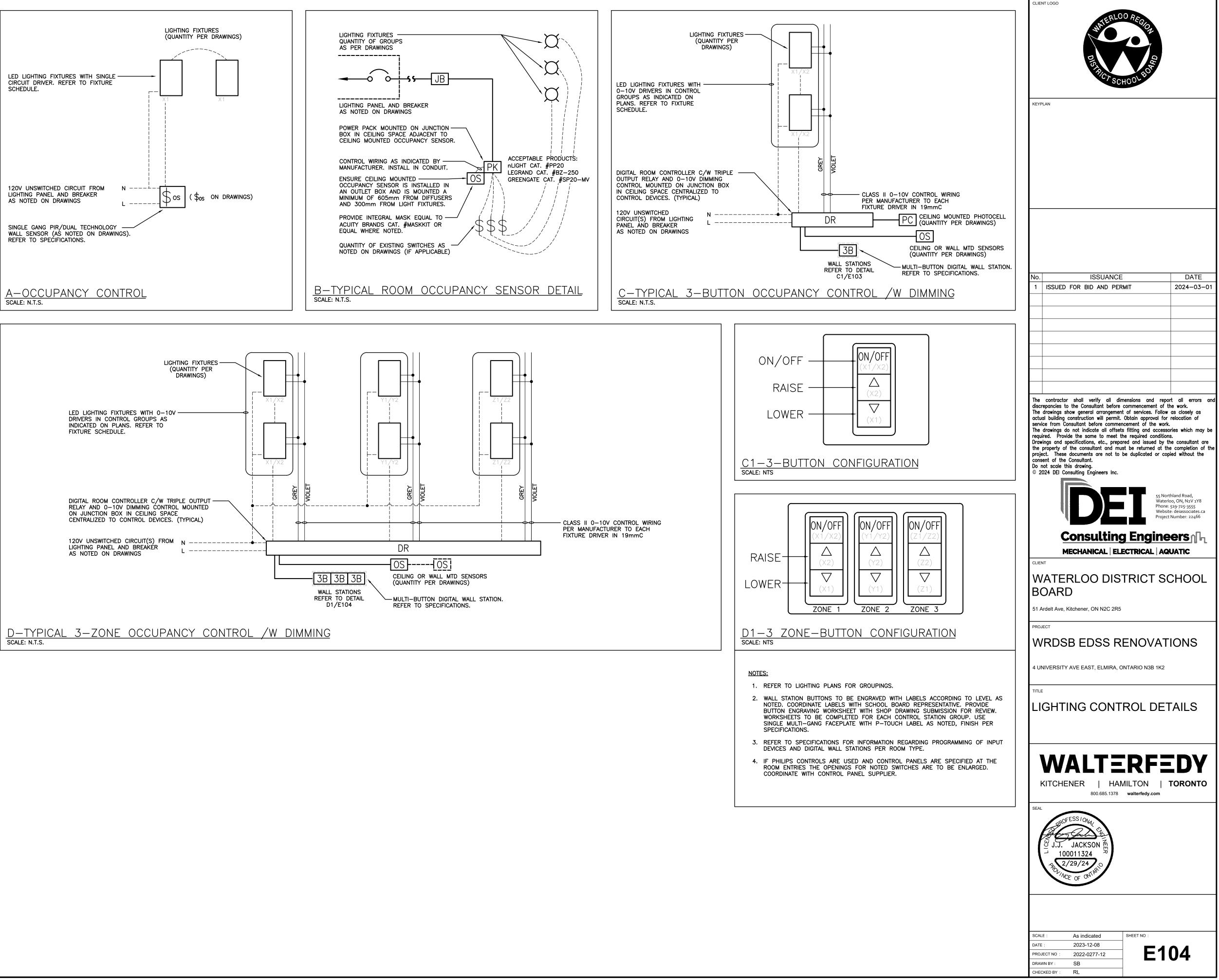
	GHT FIXTURE SCHEDULE							LIGHTING CO	NTROL SYSTEMS	S SEQUENCE O	F OPERATION
Item	Manufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description	Ѕрасе Туре	Room Names	Contr	rol Sequence / Control Device(s):
A	COOPER CAT. #4SNLED-LD5-41SL-LW-UNV-L835-CD-1-WG/SNF-4FT LITHONIA CAT. #CLX L48 4000LM SEF RDL WD MVOLT GZ10 35K 80CRI WH/WGCLX48	120V	LED 4100 LUMENS 3500K	SURFACE	80	N/A	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD.	Public Washrooms /Change Rooms /Private Washrooms	TYPICAL	<u>Sequence:</u> ON: Lights turned on OFF: 10 minutes after	automatically via occupancy sensor (where applicable). the room has been vacated, the lights will automaticall
	SIGNIFY CAT. #SDS42448L8CST-UN3-DIM-FKR-126-SDS4WG (SET TO 3500K AND 3650LM)		35W					Storage	TYPICAL	<u>Sequence:</u> ON: Lights turned on OFF: 5 minutes after	automatically via wall sensor switch. the room has been vacated, the lights will automatically
В	COOPER CAT. #24CZ2-LD5-40-UNV-L835-CD-1 LITHONIA CAT. #2BLT4-40HLE-ADP-MVOLT-EZ1-LP835 SIGNIFY CAT. #2EVG38L835-4-DS-UNV-DIM	120V	LED 4312 LUMENS 3500K 30.5W	RECESSED	80	N/A	2'X4' (610mmX12220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W SMOOTH FROSTED ACRYLIC LENS, 0-10V DIMMING DRIVER, AND WHITE FINISH.	Classrooms	TYPICAL	dimmer. OFF: 10 minutes after	nanually via wall station(s) (vacancy mode). manually adjusts lighting within the room to desired leve the room has been vacated, the lights will automatically lly adjusts fixture zone lighting levels or on/off and tha g to previous state unless sensors do not detect occupe
B1	COOPER CAT. #24CZ2-LD5-50-UNV-L835-CD-1 LITHONIA CAT. #2BLT4-48HLE-ADP-MVOLT-EZ1-LP835 SIGNIFY CAT. #2EVG48L835-4-DS-UNV-DIM	120V	LED 5169 LUMENS 3500K 39.3W	RECESSED	80	N/A	SIMILAR TO TYPE 'B' FIXTURE BUT WITH HIGHER LUMEN PACKAGE.	Team Room	TYPICAL	Sequence:	sensor operation is to resume.
B2	COOPER CAT. #24CZ2-LD5-40-UNV-L840-CD-1-DF-24W LITHONIA CAT. #2BLT4-40HLE-ADP-MVOLT-EZ1-LP835 C/W #DGA24 SIGNIFY CAT. #2EVG38L835-4-DS-UNV-DIM FMA24	120V	LED 4312 LUMENS 3500K 30.5W	RECESSED	80	N/A	SIMILAR TO TYPE 'B' FIXTURE BUT FOR DRYWALL CEILING.			ON: Lights turned on r OFF: 5 minutes after t	nanually via toggle switch (vacancy mode). he room has been vacated, the lights will automatically
B3	COOPER CAT. #24CZ2-LD5-40-UNV-L840-CD-1-SK-24-WS LITHONIA CAT. #2BLT4-40HLE-ADP-MVOLT-EZ1-LP835 C/W #2X4SMKSHP PAF SIGNIFY CAT. #2EVG38L835-4-DS-UNV-DIM FSK24	120V	LED 4312 LUMENS 3500K 30.5W	SURFACE	80	N/A	SIMILAR TO TYPE 'B' FIXTURE BUT SURFACE MOUNT.				
С	AIMLITE CAT. #VP4-L-LA3A-2/35K STANPRO CAT. #VT4-L-S3A-W/35K VISCOR CAT. #LSVB48-LED835K50LUNV	120V	LED 4936 LUMENS 3500K 39W	SURFACE	80	N/A	4' (1220mm) LONG SURFACE MOUNTED VAPORTIGHT FIXTURE C/W GASKETED POLYCARBONATE HOUSING, LENS, AND LATCHES, AND STAINLESS STEEL MOUNTING HARDWARE. STANDARD FINISH TO SUIT ARCHITECT.	<u>SYSTEM DES</u> digital room control (d	LM) SYSTEM	LINE VOLTAGE OCCUPANCY CO	
F	LITHONIA CAT. #LDN4 35/20 LO4AR LSS MVOLT GZ1 TRW COOPER CAT. #HC410D010-HM412840-41MDHWF LIGHTOLIER CAT. #4RN-C4L10840MZ10U-C4RDLXX	120V	LED 2000 LUMENS 3500K 22.12W	RECESSED	80	N/A	RECESSED 4" (100mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.	DIGITAL ROOM CONTROL RE PLUG AND PLAY DIGITAL SE CONTROL STATIONS. REFER TO SPECIFICATIONS	NSORS AND WALL MÓUNT	LINE VOLTAGE WALL SENSOR POWER PACKS WITH HARD WI REFER TO SPECIFICATIONS SE	
	AIMLITE CAT. #RPALWUMWHTUNVDC STANPRO CAT. #RMXLOWH-UDC LUMACELL CAT. #LA3WUX	12V/120	V LED 2.5 WATT (MAX.)AC 2 WATT (MAX.)DC	SURFACE	N/A	N/A	LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS. FACES AND CHEVRONS TO SUIT DRAWINGS.	NOTES: 1. ALL INDICATED TIMES, SCHOOL SECURITY SYS	INCLUDING 'SCHOOL OPENING' STEM 'ARMED' AND 'DISARMED'	;' AND 'SCHOOL CLOSING', SH	ALL BE COORDINATED WITH SCHOOL BOARD REPRESENTATI
LIGHTS	AIMLITE CAT. #EBWL SERIES LUMACELL CAT. #LBL SERIES OR APPROVED EQUALS BY STANDPRO (EM-1)	12V/120	V N/A	SURFACE	N/A	N/A	VENDAL RESISTANT LONG LIFE, SEALED BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY AND 90 MINUTE BATTERY DURATION.				
LIGHTS	AIMLITE CAT. #RMQV212V4WLRWHT STANPRO CAT. #SMC2-06-24V4WLRWH LUMACELL CAT. #RSQBDLD7	12V	LED 2-4W MR16	SURFACE	N/A	N/A	TWIN HEAD (1 CUBE 2 LAMPS) LED REMOTE MR16 FIXTURE C/W COMPACT VANDAL RESISTANT DESIGN, WHITE COLOUR, FULL AIMING ADJUSTMENT, 360° ROTATION, AND LEXAN COVER.				
								EQUIPMENT	WIRING SCHEDU	LE	
NOTES	(1) LED LUMEN VALUES QUOTED FOR FIXTURES ARE 1		_	<u> </u> 3) іг тыги			NCIES BETWEEN THE FIXTURE PART NUMBER AND	Description	Data Starter	Control Device	Isolating Remote Items
	<ul> <li>2 WHERE NOTED ABOVE THAT FIXTURES ARE TO HAT SUIT ARCHITECT THE FINISH WILL BE SELECTED F</li> </ul>	IVERED DRE THAN	10%	DESCRI THE EL WILL B	PTION, IT _ECTRICAL E ENTERTA	IS THE RESP CONSULTANT AINED FOR F	PONSIBILITY OF THIS CONTRACTOR TO BRING THESE TO 'S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS AILURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND D BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.	Electrical Item Description Provided by	Amps c or or	riable quency Drive nd/Off/Auto /Off ector int/Stop in/Low/Off bt Light	connect connect rter/Device ad By rmostat rmostat rmostat rval Timer rval Timer rval Timer rval tight tro Pilot Light tro Panel tro Panel tro Panel
	SUIT ARCHITECT THE FINISH WILL BE SELECTED F MANUFACTURER'S OPTIONAL COLOUR CHART (i.e. OR EQUAL). PROVIDE THIS COLOUR CHART WITH SUBMITTAL.	RAL COLO	DURS						Voltage       Voltage	Vario Vario Anno Anno Sele PB. Pilot	Disco Disco Disco Amp Inter RA Inter Ra Inter Cont Vire
								2 UNIT VENTILATOR M	120 6.3 1		

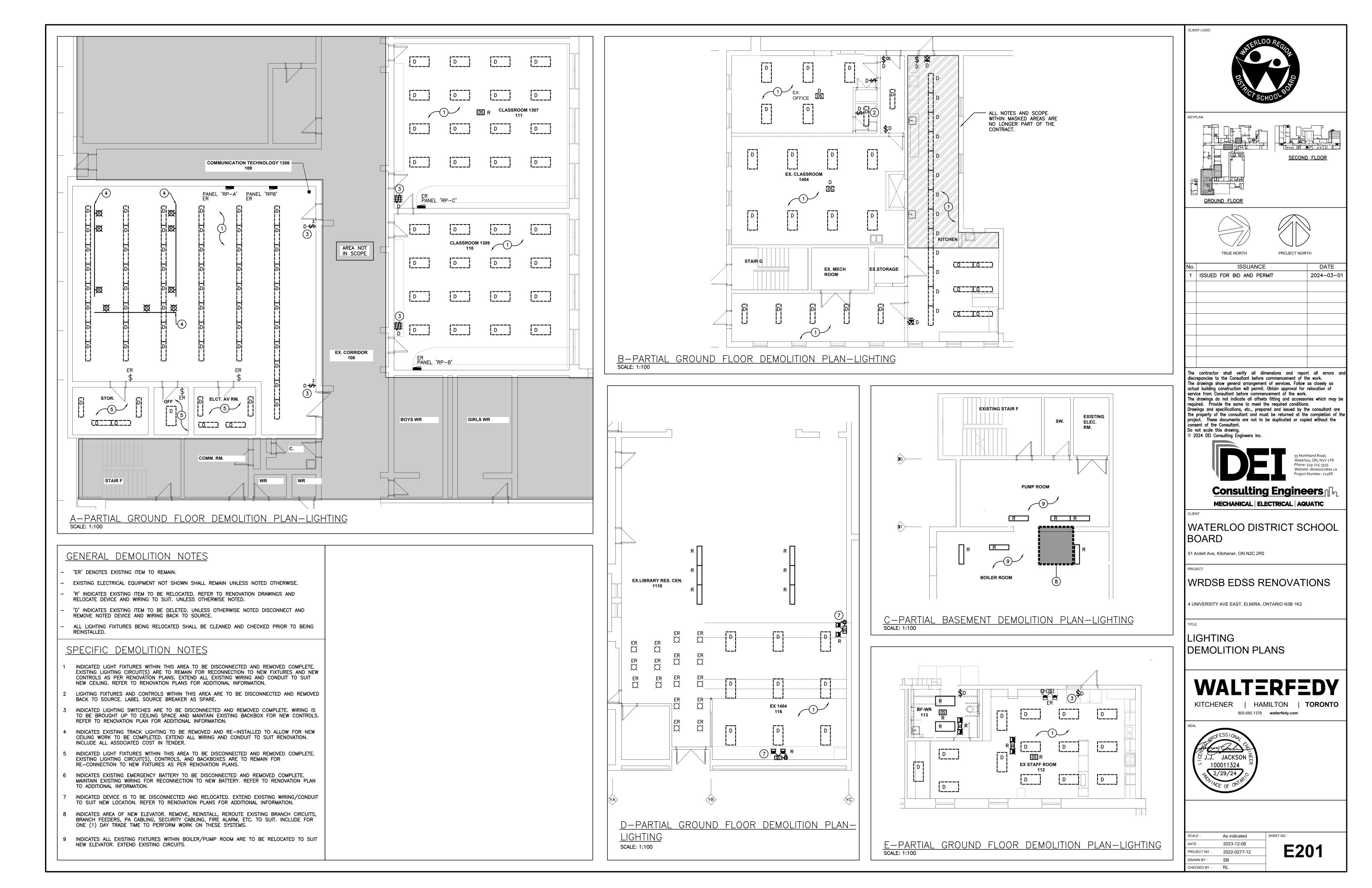
Description
4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, 10% 0-10V DIMMING DRIVER, AND WIRE GUARD.
2'X4' (610mmX12220mm) RECESSED SHALLOW VOLUMETRIC LED FIXTURE C/W SMOOTH FROSTED ACRYLIC LENS, 0-10V DIMMING DRIVER, AND WHITE FINISH.
SIMILAR TO TYPE 'B' FIXTURE BUT WITH HIGHER LUMEN PACKAGE.
SIMILAR TO TYPE 'B' FIXTURE BUT FOR DRYWALL CEILING.
SIMILAR TO TYPE 'B' FIXTURE BUT SURFACE MOUNT.
4' (1220mm) LONG SURFACE MOUNTED VAPORTIGHT FIXTURE C/W GASKETED POLYCARBONATE HOUSING, LENS, AND LATCHES, AND STAINLESS STEEL MOUNTING HARDWARE. STANDARD FINISH TO SUIT ARCHITECT.
RECESSED 4" (100mm) DIAMETER LED DOWNLIGHT C/W SELF-FLANGED 60 DEGREE BEAM REFLECTOR, SEMI-SPECULAR CLEAR FINISH, AND 1% 0-10V DIMMING DRIVER. ARCHITECT TO CONFIRM FLANGE FINISH.
LED EXTRUDED ALUMINUM PICTOGRAM FIXTURE C/W GREEN FACE AND WHITE LEGEND, UNIVERSAL MOUNTING TO SUIT WALL, END OR CEILING, AND MAXIMUM 2.5" (63mm) THICKNESS. FACES AND CHEVRONS TO SUIT DRAWINGS.
VENDAL RESISTANT LONG LIFE, SEALED BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY AND 90 MINUTE BATTERY DURATION.
TWIN HEAD (1 CUBE 2 LAMPS) LED REMOTE MR16 FIXTURE C/W COMPACT VANDAL RESISTANT DESIGN, WHITE COLOUR, FULL AIMING ADJUSTMENT, 360° ROTATION, AND LEXAN COVER.

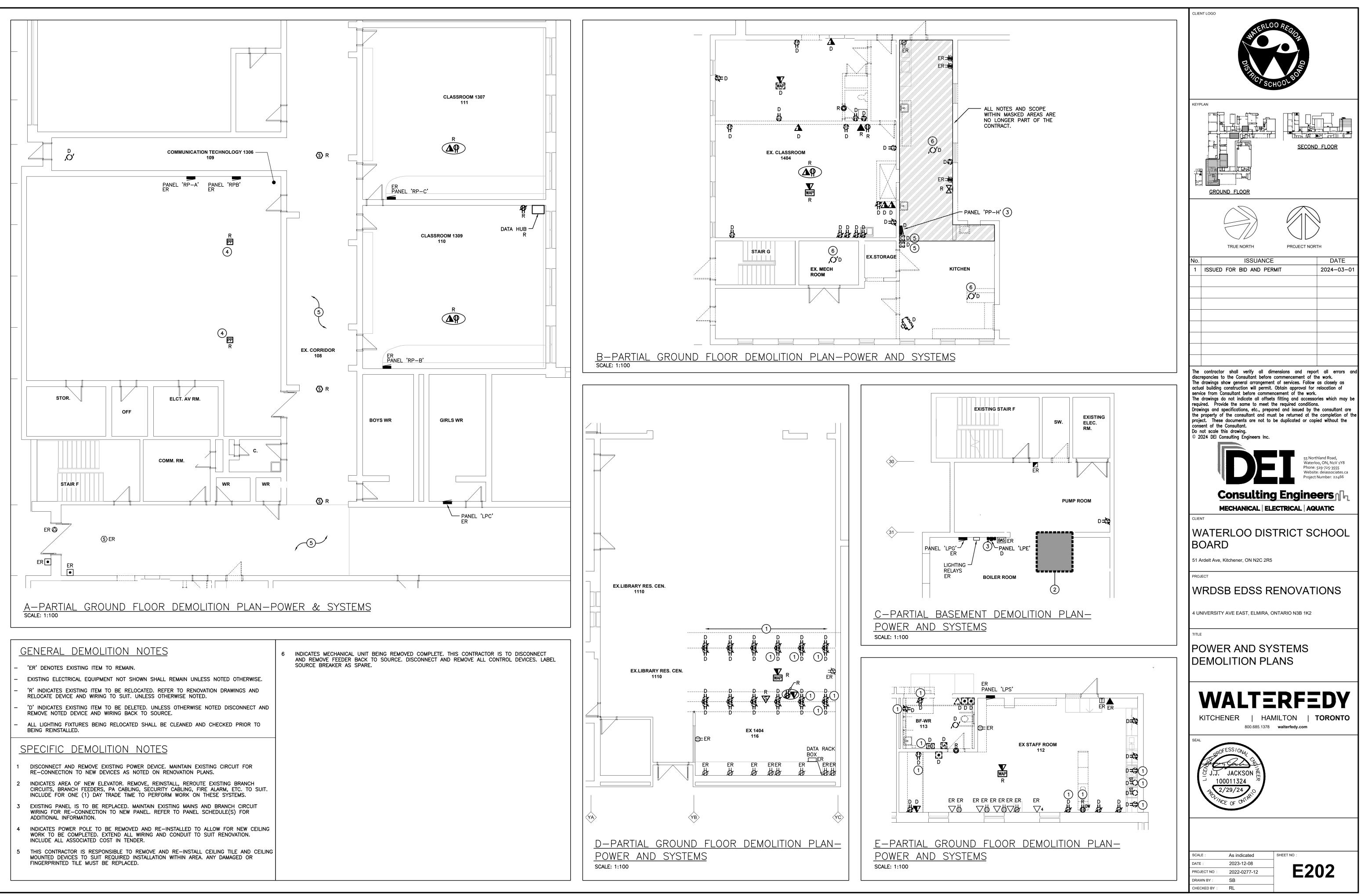
	Description		ı [	Data				Start	er		C	ontro	l Dev	ice			olatir Device					Re	emot	e Itei	ms	
Electrical Item	Description	Provided by	Voltage	Size hp/kW/Amps	Phase	Magnetic	Manual	Contactor	Combination	Variable Frequency Drive	Hand/Off/Auto	On/Off Selector	Start/Stop PB.	High/Low/Off	Pilot Light	Disconnect	WP Disconnect	Brkr/Fuse	Starter/Device Wired By	Thermostat	RA Thermostat	Interval Timer	Amp Sensor	Motor Rated Sw. c/w Pilot Light	Dual Voltage Relay	Control Panel
1	HVAC-28	м	208	31 MCA	3												Е	Е	Е							
2	UNIT VENTILATOR	м	120	6.3 MCA	1											E		Е	E	м						
3	UNIT VENTILATOR	м	120	6.3 MCA	1											Е		Е	E	м						
4	UNIT VENTILATOR	м	120	12.6 MCA	1											Е		Е	Е	м						
5	CONDENSING UNIT	м	208	22.8 MCA	1												E	Е	Е							
6	CONDENSING UNIT	м	208	22.8 MCA	-												E	Е	E							
7	CONDENSING UNIT	м	208	22.8 MCA	1												E	E	E							
8	EXHAUST FAN EF-35	м	120		1											Е		Е	Е			Е				
9	EXHAUST FAN EF–36	м	120	FHP	1												E	Е	E						м	
10	EXHAUST FAN EF–37	м	120	FHP	1											Е		Е	Е				E			
11	EXHAUST FAN EF–38	м	120	1/2 HP	1											Е		Е	Е		E					
12	EXHAUST FAN EF–39	м	120		1												E	Е	Е					м		
13	EXHAUST FAN	M	208	1.5 HP	3				E		E		E				E	E	E							
14	MUA-1	M	208	10.1 MCA	3	Á		NOTES	AND	SC	OPE	WITH	IN MA		D AR	EAS	E	E	E	M						
15	NFPA SUPPRESSION	M	120	11/ 11/	1				JNGE									E	E							
16	ERV-1	м	208	24.8 MCA	3				////_//	//_///		<u>x///_///</u>	v ////	////_//		E		E	E			///_///	v ////		<u>x//_////</u>	
17	SINK ELECTRONIC	м	120	FHP														Е	Е							

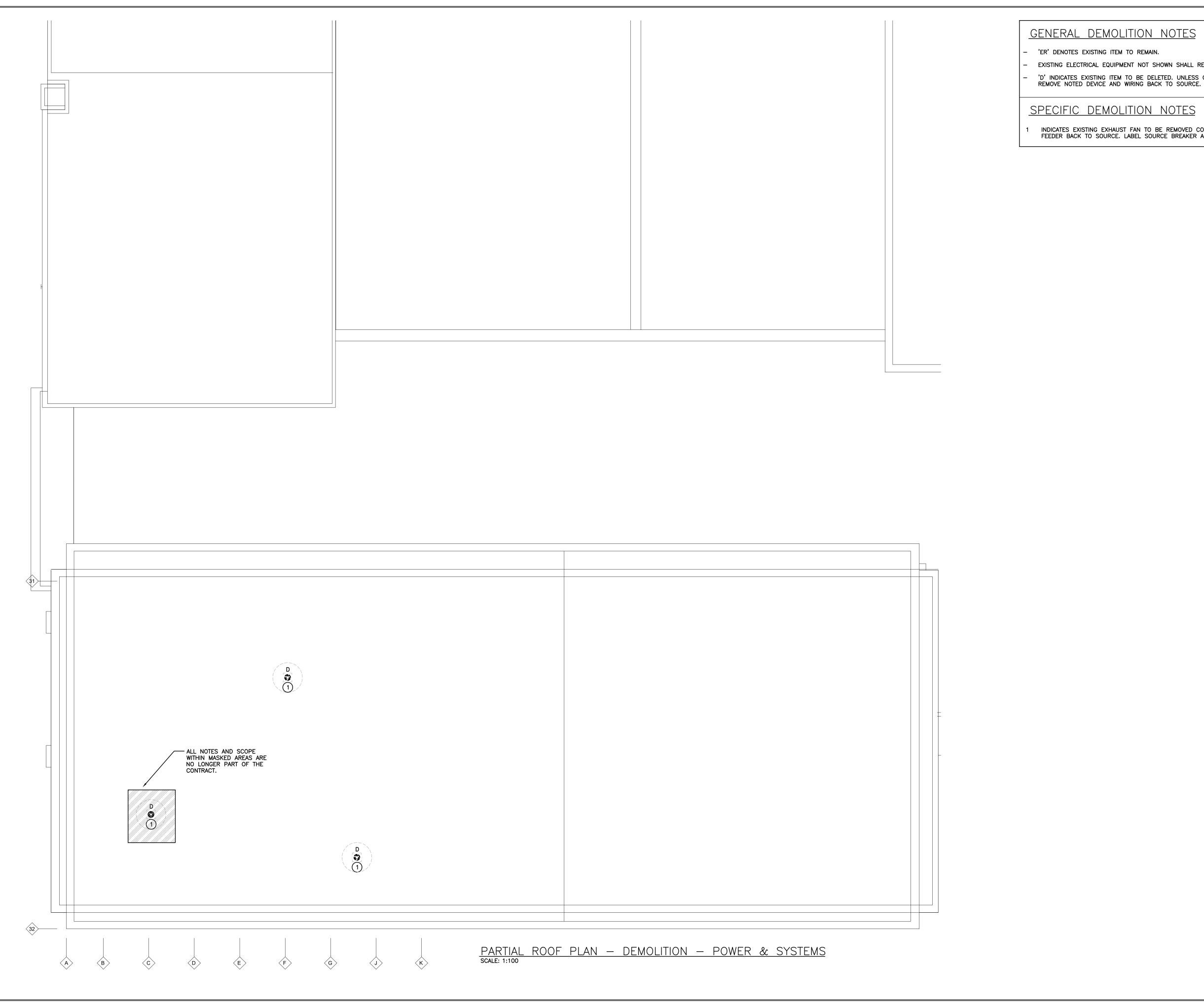
1. PROVIDE INTERLOCK WITH KITCHEN HOOD SUPPRESSION SYSTEM AND KITCHEN HOOD EXHAUST FAN & SHUT DOWN BY FIRE ALARM.

						CLIE	ENT LOGO	0 Ro	
					Control System		WATERLO	O REGION	
icable). tomatic	ally <sup>+</sup>	turn	off.		LINE VOLTAGE OCCUPANCY CONTROL SYSTEM		Dest	HOOL BOT	
omatico	illy tu	ırn d	off.		LINE VOLTAGE OCCUPANCY CONTROL SYSTEM			H00L	
esired	evel	via v	wall		DIGITAL ROOM CONTROL SYSTEM	KEY	PLAN		
omatic and t	ally t hat s	urn state	off.	ded					
matica	lly tu	rn o	ff.		DIGITAL ROOM CONTROL SYSTEM				
						<u>No.</u> 1	ISSUANCE ISSUED FOR BID AND PER		DATE 2024-03-01
RESENT	ATIVE	ANI	) SHALL	ACTIV	ATE VIA THE	disc The actu serv The requ Drav the proj con: Do	contractor shall verify all din repancies to the Consultant before drawings show general arrangemen Jal building construction will permit. rice from Consultant before commer drawings do not indicate all offset Jired. Provide the same to meet th wings and specifications, etc., prepa property of the consultant and mu ect. These documents are not to sent of the Consultant. not scale this drawing. 2024 DEI Consulting Engineers Inc.	commencement of t of services. Follow Obtain approval for incement of the worf s fitting and access he required conditio red and issued by st be returned at t	the work. w as closely as r relocation of k. sories which may be ns. the consultant are he completion of the
			1		E=ELECTRICAL M=MECHANICAL O=OTHERS		DE	Wate Phone Webs	orthland Road, rloo, ON, N2V 1Y8 2: 519-725-3555 ite: deiassociates.ca ct Number: 22466
<del>o</del>			Inte	rlock	Remarks		Consulting		
Vontrol Panel Wired by	Bldg Auto System	Wired by	Interlock To	Interlock By	Description		MECHANICAL   ELI		
<u> </u>	м м	M M	5			B	OARD Ardelt Ave, Kitchener, ON N2C 2R5		
M	м	м	6	M		PRO	JECT		
M	м	м	7 2	M M		W	/RDSB EDSS R	ENOVAT	IONS
			3	м		4 U	NIVERSITY AVE EAST, ELMIRA, C	NTARIO N3B 1K2	
M	м	м	4	M	LOCAL EXHAUST	TITL	⊧ CHEDULES		
E	141	141			WIRED THROUGH AMP SENSOR		~		
Е М	м	м м							
	M	M	14	M	INSTALL PUSHBUTTON		WALTE	<b>IRF</b>	EDY
M	M	M	13	M			800.685.1378	MILTON   walterfedy.com	TORONTO
RM.	M	м				SEA	BROFESSION J.J. JACKSON 100011324 ROLL OF ONNAR		
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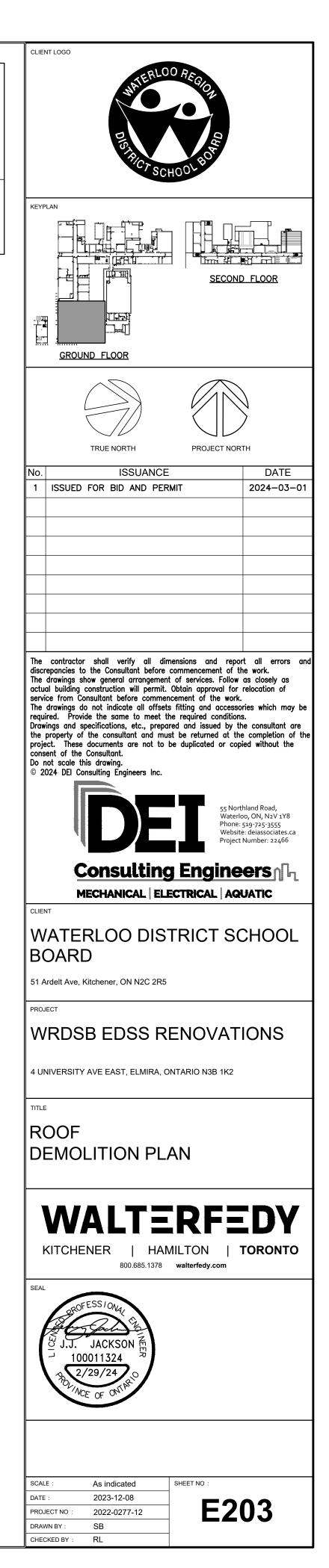


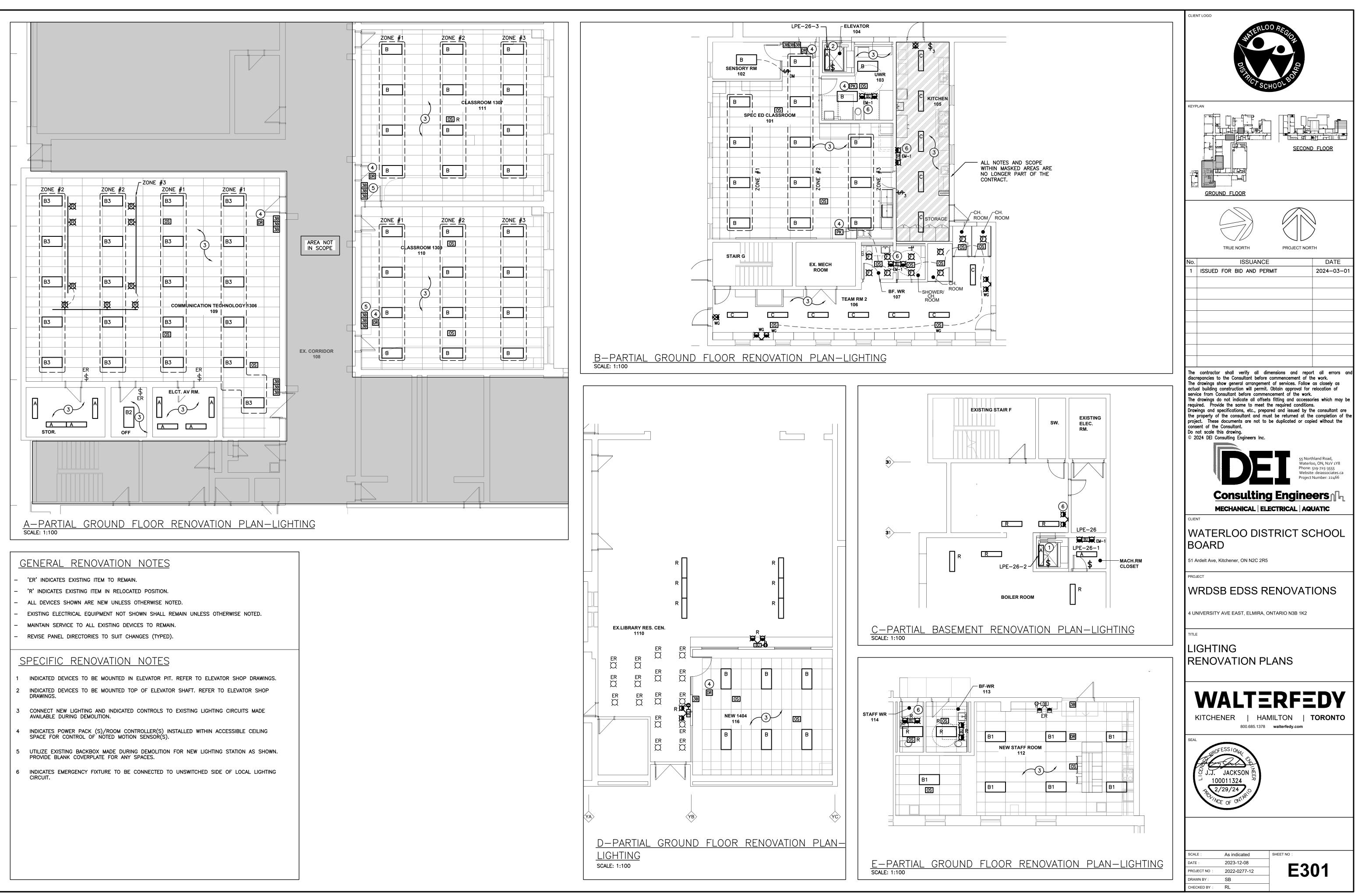


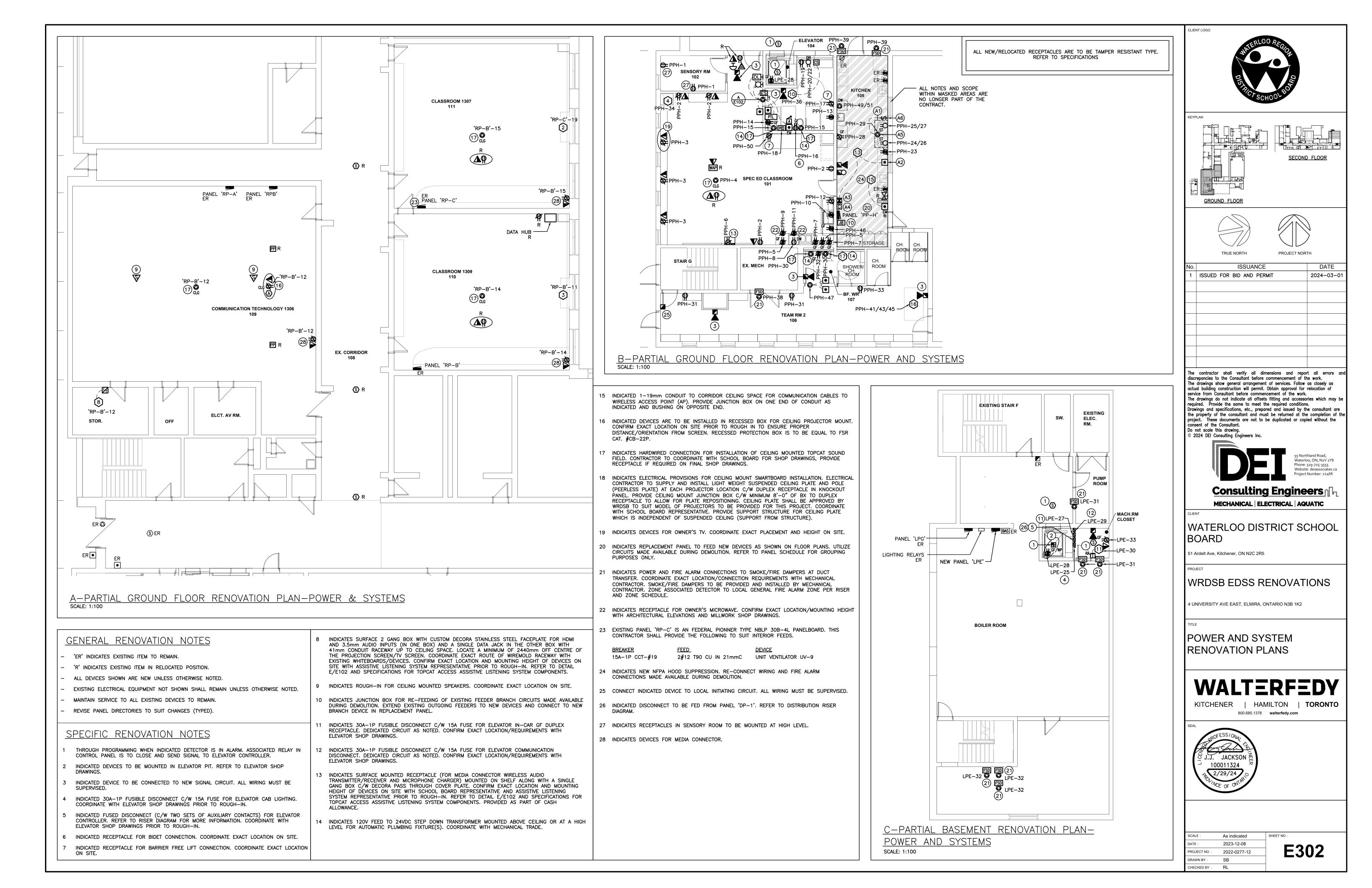
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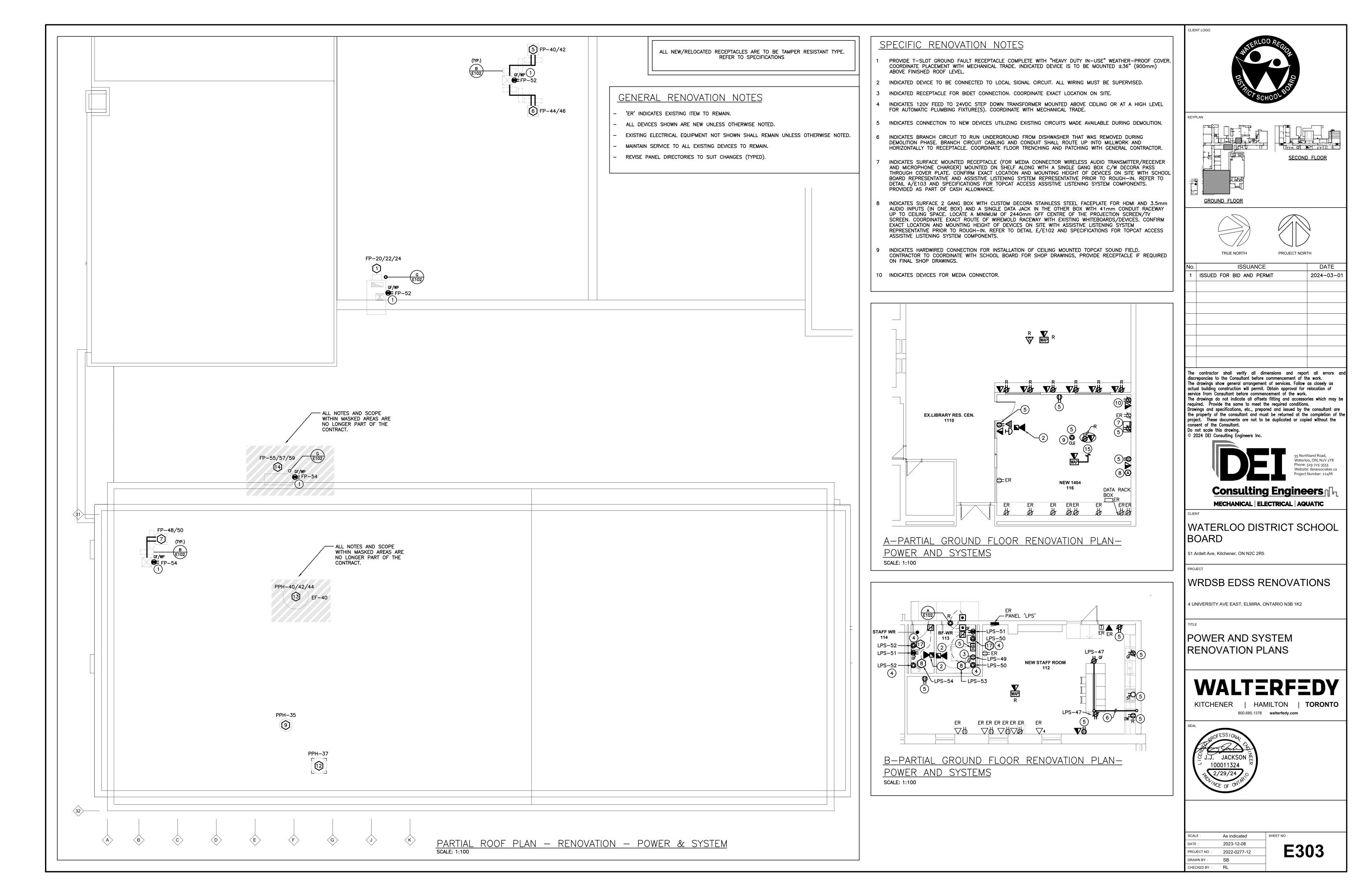
EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE. 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND

INDICATES EXISTING EXHAUST FAN TO BE REMOVED COMPLETE. DISCONNECT AND PULL FEEDER BACK TO SOURCE. LABEL SOURCE BREAKER AS SPARE.

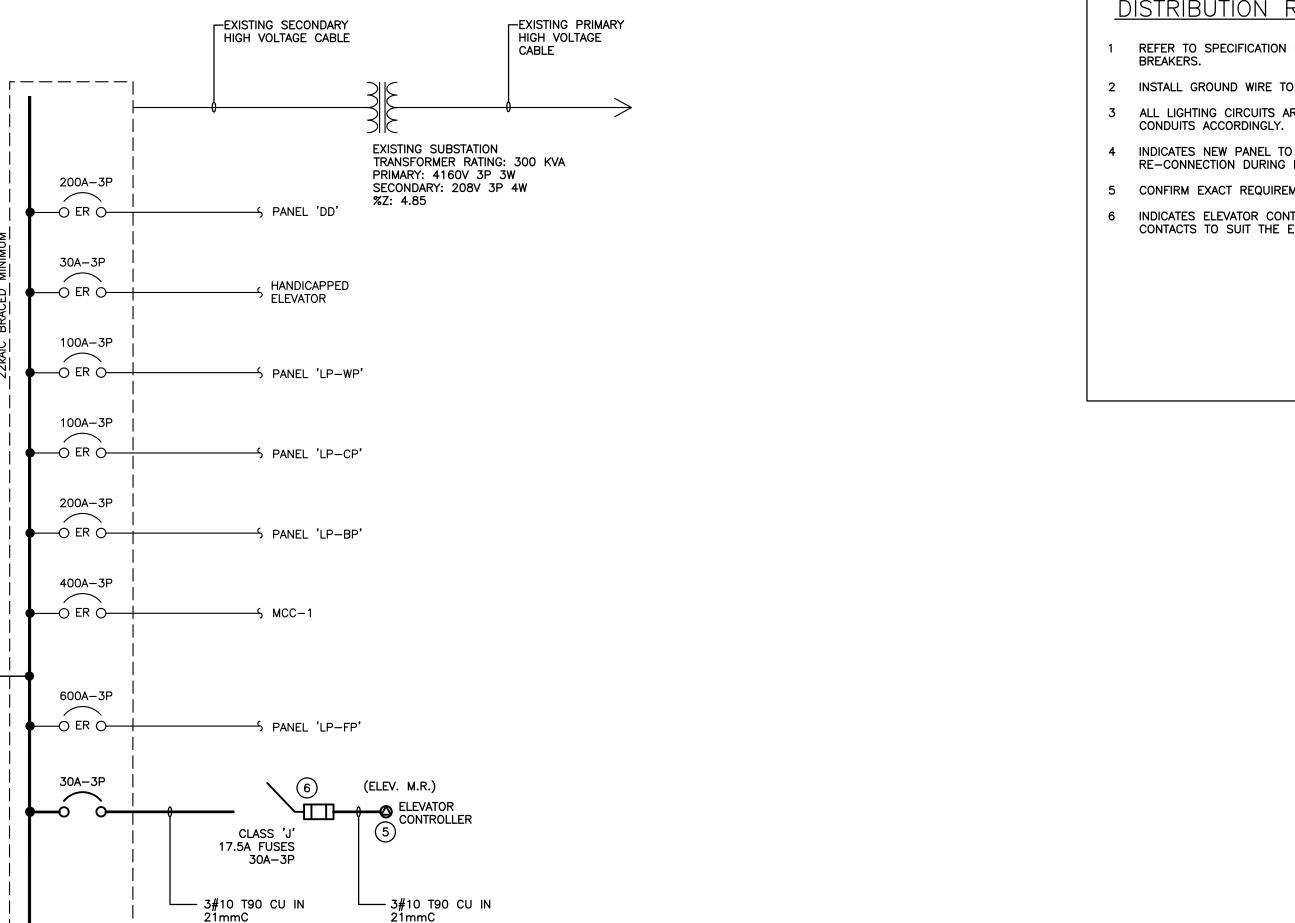








400x-5F     200x-5F       0 (FX 0     SPUTEX 'L'       134_1P     0 (FX 0       0 (FX 0     SPUTEX 'L'       134_1P     0 (FX 0       0 (FX 0     SPUTEX 'L'       136_1P     SPUTEX 'L'       0 (FX 0     SPUTEX 'L'       130x-3P     SPUTEX 'L'       130x-3P     SPUTEX 'L'       200x-3F     SPUTE 'L'       200x-3F<	   ≥ ,	400A-3P	SPLITTER 'L'	200A-3P
2020A-3P       0 ER O       5 PANEL 'LP-RP'         2020A-3P       0 ER O       5 PANEL 'LP-Y'         4020A-3P       0 ER O       6 PANEL 'LP-Y'         4020A-3P       0 ER O       5 PANEL 'LP-F'         223A-3P       0 ER O       5 PANEL 'LP'         0 ER O       5 PANEL 'LP'       6 PANEL 'LP'         200A-3P       0 ER O       5 PANEL 'LP''         200A-3P       0 ER	50KAIC BRACED MINIMUM		MUM SUTURINE C	
2024-3P       0 ER C       > PAHEL 'LP-RP'         2024-3P       0 ER C       2024-3P         0 ER C       > PAHEL 'LP-RP'       2024-3P         0 ER C       > PAHEL 'LP-Y'       4024-3P         4024-3P	     '		PHASE LOSS INDICATOR	30A-3P
200A-3P       GR O         0 ER O       S PANEL 'UP-RP'         200A-3P       GR O         0 ER O       S PANEL 'UP-Y'         400A-3P       GR O         0 ER O       S PANEL 'UP-Y'         400A-3P       GR O         0 ER O       S PANEL 'UP-X'         400A-3P       GR O         0 ER O       S PANEL 'UP-X'         400A-3P       GR O         0 ER O       S PANEL 'UP-X'         400A-3P       GR O         0 ER O       S PANEL 'UP-X'         13A-3P       GR O         0 ER O       S PANEL 'UP-X'         13B-3P       FANEL 'UP-R'         0 ER O       S PANEL 'UP-R'         12B-3P       FANEL 'UP-R'         0 ER O       S PANEL 'UP-R'         226A-3P       FANEL 'UP-R'         0 ER O       S PANEL 'UP-R'         226A-3P       S PANEL 'UP-R'         0 ER O       S PANEL 'UP-R'         200A-3P       S PANEL 'UP'         0 ER O       S PANEL 'UP'         200A-3P       S PANEL 'UP'         0 ER O       S PANEL 'UP'         200A-3P       S PANEL 'UP'         0 ER O       S PANEL 'UP'			ISTING SI MAIC BRA	   100A-3P
O ER O       , PANEL 'LP-RP'         2004-3P       O ER O         0 ER O       , PANEL 'LP-Y'         400A-3P       O ER O         0 ER O       , PANEL 'LP-Y'         400A-3P       O ER O         0 ER O       , PANEL 'LP-X'         15A-3P       O ER O         0 ER O       , PANEL 'LP-X'         10A-3P       O ER O         0 ER O       , PANEL 'LP-X'         10A-3P       O ER O         0 ER O       , PANEL 'L'         70A-3P       O ER O         0 ER O       , PANEL 'L'         10A-3P       , PANEL 'L'-X'         0 ER O       , PANEL 'L'-F'         225A-3P       , PANEL 'L'-F'         225A-3P       , PANEL 'L'-F'         225A-3P       , ELECTRONICS SHOP         150A-3P       , ELECTRONICS SHOP         150A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200-3P       , P	(		DUST COLLECTOR WOOD SHOP 监论的	│
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O ER O       , PANEL 'LP-X'         15A-3P       GOVA STORAGE HEATER         70A-3P       , GVA STORAGE HEATER         70A-3P       , FANEL 'L' AUTO SHOP         100A-3P       , PANEL 'U' AUTO SHOP         225A-3P       , PANEL 'U'         0 ER O       , PANEL 'U'         225A-3P       , PANEL 'U'         0 ER O       , PANEL 'U'         20A-3P       , PANEL 'X'         400A-3P       , PANEL 'X'         0 ER O       , PANEL 'X'         20A-3P       , PANEL 'XX'         20A-3P       , PANEL 'XX'         20A-3P       , PANEL 'LP' LIBRARY				• O ER O-
15A-3P     0 KR 0     , 0YM STORAGE HEATER       70A-3P     , 0YM STORAGE HEATER       70A-3P     , PANEL 'L'       70A-3P     , PANEL 'L'       70A-3P     , PANEL 'L'       70A-3P     , PANEL 'L'       100A-3P     , PANEL 'L'       0 ER 0     , PANEL 'L'       100A-3P     , PANEL 'L'       225A-3P     , PANEL 'LP-F'       225A-3P     , PANEL 'LP-F'       225A-3P     , ELECTRONICS SHOP       150A-3P     , PANEL 'L'       0 ER 0     , PANEL 'L'       220A-3P     , PANEL 'L'       0 ER 0     , PANEL 'L'       200A-3P     , PANEL 'LP'       200A-3P     , PANEL 'LP'       200A-3P     , PANEL 'L'				
O ER O       , GYM STORAGE HEATER         70A-3P       , PANEL 'E'         70A-3P       , PANEL 'J' AUTO SHOP         100A-3P       , PANEL 'D'         100A-3P       , PANEL 'D'         100A-3P       , PANEL 'D'         225A-3P       , PANEL 'L'-F'         225A-3P       , ELECTRONICS SHOP         150A-3P       , PANEL 'C'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         200A-3P       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         200A-3P       , PANEL 'L'         0 ER O       , PANEL 'L'         <				
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225A-3P $PANEL 'PP-H'$ $(4)$ $225A-3P$ $O ER O$ $FR O$				
$\begin{array}{c} 222A-3P \\ O ER O \\ O ER$	•			
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200A-3P $O ER O$ $S PANEL 'A'$ $400A-3P$ $O ER O$ $S PANEL 'XX'$ $200A-3P$ $O ER O$ $S PANEL 'LP' LIBRARY$ $200A-3P$ $O ER O$ $S PANEL 'LP' LIBRARY$ $Z00A-3P$ $S PANEL 'LP' LIBRARY$ $Z00A-3P$ $S PANEL 'LP' LIBRARY$		150A-3P		
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O ER O \$ PORTABLES   XXA-3P \$ PANEL 'XXX'   200A-3P \$ PANEL 'LP' LIBRARY   200A-3P \$ PANEL 'LP' LIBRARY   200A-3P \$ PANEL 'LPS'				
XXA-3P $O ER O$ $S PANEL 'XXX'$ $200A-3P$ $O ER O$ $S PANEL 'LP' LIBRARY$ $200A-3P$ $O ER O$ $S PANEL 'LPS'$ $XXA-3P$	(			
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O ER O S PANEL 'LPS'				
	•			
	(		JIAGE LIGHTING	



## CLIENT LOGO

# DISTRIBUTION RISER NOTES

REFER TO SPECIFICATION FOR INFORMATION REGARDING MOULDED CASE CIRCUIT

2 INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT. 3 ALL LIGHTING CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS. SIZE BRANCH

4 INDICATES NEW PANEL TO REPLACE EXISTING "KITCHEN PANEL H". MAINTAIN FEEDERS FOR RE-CONNECTION DURING RENOVATION PHASE. EXTEND EXISTING FEED AS REQUIRED. 5 CONFIRM EXACT REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO INSTALLATION. 6 INDICATES ELEVATOR CONTROLLER DISCONNECT. PROVIDE C/W TWO SETS OF AUXILIARY CONTACTS TO SUIT THE ELEVATOR SUPPLIER.



KEYPLAN

DATE ISSUANCE 2024-03-01 ISSUED FOR BID AND PERMIT

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing.

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MECHANICAL | ELECTRICAL | AQUATIC

## WATERLOO DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

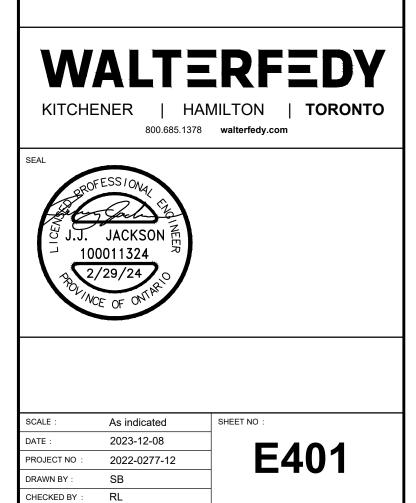
CLIENT

PROJECT

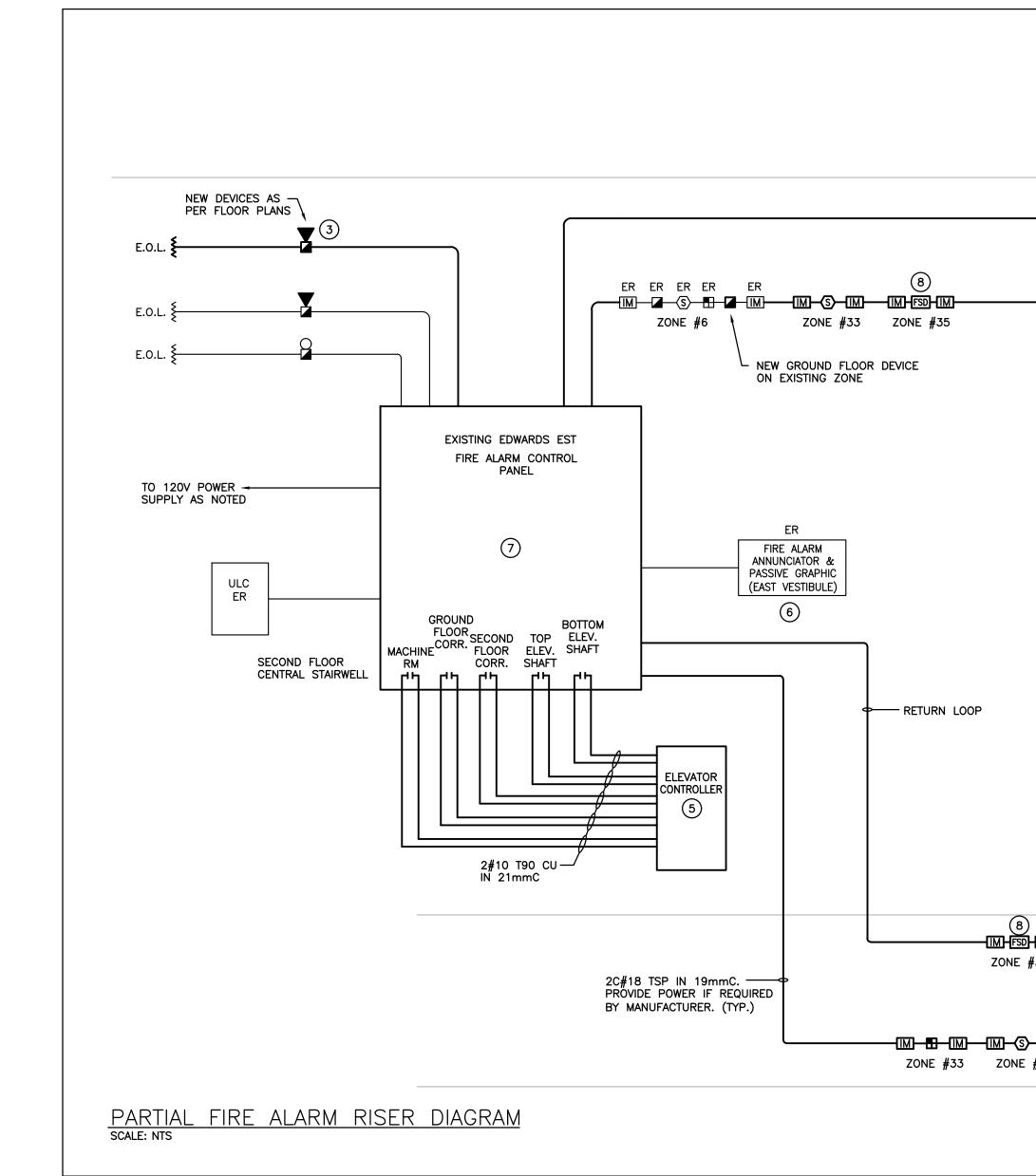
## WRDSB EDSS RENOVATIONS

4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2

# DISTRIBUTION RISER DIAGRAM



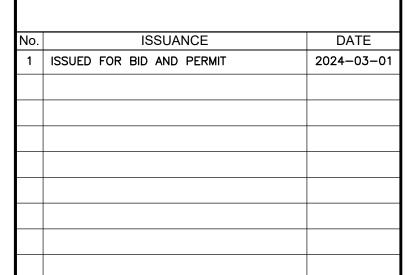
DEMOLISHED PANEL 'LPE' VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W MAINS: 100A NEUTRAL BUS: FULL MOUNTING: SURFACE	VOLTAGE: 120/208 VOLTS	IS TO COORDINATE ROOM NAMES DTED WITH THE FINAL ROOM ED DURING CONSTRUCTION AND ES TO SUIT.	EXISTING PANEL 'FP' SCHEDU Voltage: 120/208 volts phase: 3p, 4w mains: 600a neutral bus: mounting: surface		EXISTING PANEL 'LPS' SCH VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W MAINS: 250A NEUTRAL BUS: FULL MOUNTING: RECESSED	IEDULE	CLIENT LOGO
NOTES: NOTES: BOILER ROOM LIGHTS $15A - 0 - 1$ BOILER ROOM LIGHTS $15A - 0 - 3$ BOILER ROOM LIGHTS $15A - 0 - 3$ EMERGENCY LIGHTS/REC $15A - 0 - 5$ OUTLET BY SEWAGE PIT $15A - 0 - 7$ EXIT/EMERG. LIGHTS $15A - 0 - 7$ EXIT/EMERG. LIGHTS $15A - 0 - 9$ SUMP PUMP $15A - 0 - 9$ SUMP PUMP $20A - 0 - 13$ SUMP PUMP $20A - 0 - 13$ SUMP PUMP $20A - 0 - 15$ UKNOWN LOAD $20A - 0 - 15$ MORILITY LIGHTING PANEL $20A - 0 - 19$ UKNOWN LOAD $20A - 0 - 19$ SPACE $- 0 - 25$ SPACE $- 0 - 29$ SPACE $- 0 - 20$ SPACE $- 0 - 20$ SPAC	NOTES: C/W SPRINKLER HOOD SINGLE TUB SENSORY RM 102 REC SPEC ED 101 ABOVE COUNTER REC SPEC ED 101 MICROWAVE REC SPEC ED 101 MICROWAVE REC BF WR CHANGE TABLE REC BF WR PLUMBING FIXTURES BF WR UIFT REC BF WR WASHER REC COA SPEC ED 101 ABOVE COUNTER REC SPEC ED 101 ABOVE COUNTER REC SPEC ED 101 MICROWAVE REC SPEC ED 101 MICROWAV	SPEC ED 101 REC SPEC ED 101 ASSIS. LISTENING SPEC ED 101 MEDIA REC SPEC ED 101 DISHWASHER REC SPEC ED 101 OVEN REC SPEC ED 101 FRIDGE REC BF WR SINK REC BF WR BIDET REC BF WR BIDET REC BF WR DRYER KITCHEN 105 STOVE REC E FWR 107 PLUMBING FIXTURES	AHU-1       45A       1         AHU-3       3P       3         AHU-3       60A       7         AHU-3       45A       13         AHU-5       45A       13         AHU-7       70A       19         AHU-7       70A       19         AHU-7       70A       25         AHU-7       3P       23         AHU-7       70A       25         AHU-7       3P       29         AHU-7       3P       29	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	NOTES: SIEMENS TYPE 'P2'         ER       WASHROOM DOOR OPENERS         ER       DOOR STRIKE         ER       CHANGE TABLE         ER       BATHROOM J-BOX         ER       BATHROOM FAN         ER       BATHROOM FAN         ER       BATHROOM FAN         ER       BATHROOM CONTROL RELAY         ER       EAST WIRE MOLD REC.         ER       EXISTING LOAD         15A       19         2P       21         ER       RECEPTACLE	4       15A       BATH LIGHT + FAUCET       ER         6       20A       HAND DRYER RECEPTACLE       ER         8       15A       RECEPTACLE       ER         10       40A       STOVE       ER         12       2P       ER       ER         14       15A       RECEPTACLE       ER         16       2P       ER       ER         18       3P       ER       ER         20       20A       DRYER       ER         22       2P       ER       ER         24       20A       DISHWASHER       ER         26       15A       EXISTING LOAD       ER	KEYPLAN
PANEL 'LPE'       THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.         VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W       THE CONTRACTOR IS TO COORDINATE ROOM NAMES AND NUMBERS NOTED WITH THE FINAL ROOM INFORMATION ISSUED DURING CONSTRUCTION AND ADJUST DIRECTORIES TO SUIT.         MAINS: 225A       NEUTRAL BUS: FULL MOUNTING: SURFACE NOTES: C/W SPRINKLER HOOD SINGLE TUB         BOILER ROOM LIGHTS       15A 1 2 15A SOFTENER/EMERG. LIGHTS BOILER ROOM LIGHTS         BOILER ROOM LIGHTS       15A 3 4 1 15A 5 1 6 15A BOILER ROOM LIGHTS	TEAM RM 106 REC       15A       33       34       20A         9       SHOWER CH. RM EXH FAN       15A       35       36       15A         12       TEAM RM 106 EXH FAN       15A       37       38       15A         12       TEAM RM 106 EXH FAN       15A       37       38       15A         16       TEAM RM 106 ERV       35A       40       15A         16       TEAM RM 106 ERV       35A       41       42         43       44       3P         39       45       46       20A         BF WR 107 DOOR OPERATOR       15A       47       48       15A	SPEC ED 101 UNIT VENTILATOR (4) BF WR EXH FAN (10) MECH RM FIRE/SMOKE DAMPER KITCHEN 105 EXH FAN (13) SPED ED 101 ABOVE COUNTER REC SPEC ED 101 BF LIFT REC SPARE SPARE SPACE	ER 3P 41	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ER       2P       29         ER       EXISTING LOAD       20A       31         ER       EXISTING LOAD       20A       33         ER       EXISTING LOAD       20A       33         ER       EXISTING LOAD       20A       35         ER       EXISTING LOAD       20A       35         ER       EXISTING LOAD       20A       37         ER       EXISTING LOAD       15A       39         ER       EXISTING LOAD       15A       43         ER       EXISTING LOAD       15A       45         NB       SPACE       47         NB       SPACE       49	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	No.       ISSUANCE       DATE         1       ISSUED FOR BID AND PERMIT       2024–03–01
OUTLET BY SEWAGE PIT EXIT/EMERG. LIGHTS15A T78 T15A 20ASUIT/EMERG. LIGHTSSUMP PUMP SUMP PUMP15A SUMP PUMP15A T1112 T15A SUMP PUMPSUMP PUMP SUMP PUMPSUMP PUMP SUMP PUMP20A SUMP PUMP1314 20A T20A SUMP PUMP20A SUMP PUMP20A SUMP PUMPMORILITY LIGHTING PANEL ELEVATOR CAB LIGHTING ELEVATOR CAB DISCONNECT ELEVATOR CAB DISCONNECT20A 20A<	SPACE $61$ $62$ SPACE $63$ $64$ SPACE $65$ $66$ SPACE $67$ $68$ SPACE $69$ $70$ SPACE $71$ $72$ SPACE $73$ $74$ SPACE $75$ $76$ SPACE $77$ $78$	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE EXISTING SERVERY PANEL E	PROPOSEDPANEL'FP'SCHEDUR $AHU-1$ $45A$ 1R $3P$ 5R $3P$ 5R $AHU-3$ $60A$ 7R $3P$ 01R $3P$ 01R $AHU-5$ $45A$ 13R $AHU-5$ $45A$ 15R $3P$ 1515	$\begin{array}{c c} THE MAINTENANCE MANUALS \\ \hline THE MAINTENANCE MANUALS \\ \hline \\ 4 \\ 6 \\ \hline \\ 4 \\ \hline \\ 6 \\ \hline \\ 6 \\ \hline \\ 3P \\ \hline \\ 8 \\ \hline \\ 6 \\ \hline \\ 3P \\ \hline \\ 12 \\ \hline \\ 7 \\ \hline \\ 12 \\ \hline \\ 7 \\ \hline \\ 12 \\ \hline \\ 7 \\ 7$	ER       CHANGE TABLE       20A       5         ER       BATHROOM J-BOX       15A       7         ER       BATHROOM FAN       15A       9         ER       BATHROOM CONTROL RELAY       15A       11         ER       EAST WIRE MOLD REC.       15A       13	4       15A       BATH LIGHT + FAUCET       ER         6       20A       HAND DRYER RECEPTACLE       ER         8       15A       RECEPTACLE       ER         10       40A       STOVE       ER         12       2P       ER	The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project.
SPARE $15A$ $35$ $36$ $15A$ SPARESPARE $15A$ $37$ $38$ $SPACE$ SPACE $39$ $40$ $SPACE$ SPACE $39$ $40$ $SPACE$ SPACE $41$ $42$ $SPACE$ SPACE $41$ $42$ $SPACE$ SPACE $43$ $44$ $SPACE$ SPACE $45$ $46$ $SPACE$ SPACE $47$ $48$ $SPACE$ SPACE $51$ $52$ $SPACE$ SPACE $53$ $54$ $SPACE$ SPACE $53$ $54$ $SPACE$ SPACE $55$ $56$ $SPACE$ SPACE $57$ $58$ $SPACE$	NOTE:       THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUP PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATE THE UPSTREAM BREAKER.         EXISTING PANEL 'RP-B' SCHEDULE         VOLTAGE:       120/208 VOLTS         PHASE:       3P, 4W         MAINS:       225A         NOTES:       EXISTING FEDERAL PIONEER TYPE NBLP         ER       EXISTING FEDERAL PIONEER TYPE NBLP         ER       EXISTING LOAD       15A       1       2       15A	ED EQUIPMENT RATING WITH	$\begin{array}{c} & & & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ERRECEPTACLE20A37EREXISTING LOAD15A39	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.
NOTE: THE INDICATED PANEL ASSEMBLY MUST HAVE AN INTERRUPTING CAPACITY OF 22000 A. PROVIDE BY EITHER FULLY RATED BREAKERS OR INTEGRATED EQUIPMENT RATING WITH THE UPSTREAM BREAKER.	ERCEILING REC FOR JIFFY POLE $15A$ $5$ $6$ $15A$ ERCEILING REC FOR JIFFY POLE $15A$ $7$ $8$ $15A$ ERAMP RECEPTACLE $15A$ $9$ $10$ $15A$ ERSPACE $0$ $11$ $12$ $0$ ERSPACE $0$ $13$ $14$ $0$ ERSPACE $0$ $15$ $16$ $0$ ERTRANSP. PLC PANEL/CNTRLLR $20A$ $19$ $20$ $0$ ERTRANSPORTATION DESK REC $20A$ $21$ $22$ $0$ ERTRANSPORTATION SHOP GFCI REC $20A$ $23$ $24$ $0$ ERSPACE $0$ $25$ $26$ $0$ ERSPACE $0$ $25$ $26$ $0$	EXISTINGLOADEREEXISTINGLOADEREEXISTINGLOADERESPACEERERESPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERERISPACEERIISPACEERIISPACEERIISPACEERIISPACEERIISPACEERIISPACEERIISPACEIIISPACEIIISPACEIIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEIISPACEII </th <th>ER PANEL 'LPYY' <u>100A</u> 49 ER 51 ER 53</th> <th>48       35A       CONDENSING UNIT CU-11       7       NB         50       2P       2P       NB       NB         52       20A       ROOFTOP MAINTENANCE REC       NB         54       20A       ROOFTOP MAINTENANCE REC       NB         56       SPACE       ER         58       SPACE       ER         60       SPACE       SPACE</th> <th>ER EXISTING LOAD 15A 45 NB ISLAND RECEPTACLE 15A 47 NB BF W/R 113 BIDET CONNECTION 15A 49 NB WR 113/114 SINK REC 20A 51 NB 8 BF WR 113 EXH FAN 15A 53 DESIGNATION 'ER' INDICATES EXISTING SERVICE AND BREAKER THAT 'SP' INDICATES EXISTING BREAKER THAT MAY BECOMI 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE</th> <th>44       20A       COUNTER RECEPTACLE       ER         46       15A       WINDOW A/C       ER         48       2P       ER       ER         50       15A*       WR 113 PLUMBING FIXTURES       NB         52       15A*       WR 114 PLUMBING FIXTURES       NB         54       15A       STAFF WR 114 EXH FAN (8)       NB         54       15A       STAFF WR 114 EXH FAN (8)       NB         F SHOULD REMAIN UNTOUCHED       STAFF DUE TO DEMOLITION. (CONFIRM ON SITE)       REWIRED TO SERVICE DEVICES INDICATED ON PLAN</th> <th>WATERLOO DISTRICT SCHOOL BOARD51 Ardelt Ave, Kitchener, ON N2C 2R5PROJECTWRDSB EDSS RENOVATIONS4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2</th>	ER PANEL 'LPYY' <u>100A</u> 49 ER 51 ER 53	48       35A       CONDENSING UNIT CU-11       7       NB         50       2P       2P       NB       NB         52       20A       ROOFTOP MAINTENANCE REC       NB         54       20A       ROOFTOP MAINTENANCE REC       NB         56       SPACE       ER         58       SPACE       ER         60       SPACE       SPACE	ER EXISTING LOAD 15A 45 NB ISLAND RECEPTACLE 15A 47 NB BF W/R 113 BIDET CONNECTION 15A 49 NB WR 113/114 SINK REC 20A 51 NB 8 BF WR 113 EXH FAN 15A 53 DESIGNATION 'ER' INDICATES EXISTING SERVICE AND BREAKER THAT 'SP' INDICATES EXISTING BREAKER THAT MAY BECOMI 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE	44       20A       COUNTER RECEPTACLE       ER         46       15A       WINDOW A/C       ER         48       2P       ER       ER         50       15A*       WR 113 PLUMBING FIXTURES       NB         52       15A*       WR 114 PLUMBING FIXTURES       NB         54       15A       STAFF WR 114 EXH FAN (8)       NB         54       15A       STAFF WR 114 EXH FAN (8)       NB         F SHOULD REMAIN UNTOUCHED       STAFF DUE TO DEMOLITION. (CONFIRM ON SITE)       REWIRED TO SERVICE DEVICES INDICATED ON PLAN	WATERLOO DISTRICT SCHOOL BOARD51 Ardelt Ave, Kitchener, ON N2C 2R5PROJECTWRDSB EDSS RENOVATIONS4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2
	ER       SPACE       29       30       30         PROPOSED PANEL       'RP-B'       SCHEDULE       AT         PRO       PROPOSED PANEL       'RP-B'       SCHEDULE       AT         PRO       ER       EXISTING LOAD       15A       1       2       15A         ER       EXISTING LOAD       15A       3       4       15A         ER       CEILING REC FOR JIFFY POLE       15A       3       4       15A         ER       CEILING REC FOR JIFFY POLE       15A       5       6       15A         ER       CEILING REC FOR JIFFY POLE       15A       7       8       15A         ER       AMP RECEPTACLE       15A       9       10       15A         NB       JUNIT VENT UV-10       15A       11       12       15A	SPACE       ER         THE COMPLETION OF THE PROJECT, VIDE A NEW TYPE WRITTEN PANEL ECTORY AND INCLUDE A COPY IN       I         MAINTENANCE MANUALS       I         EXISTING LOAD       ER         CEILING REC FOR JIFFY POLE       ER         EXISTING LOAD       ER         EXISTING LOAD       ER         EXISTING LOAD       ER         STOR. RM EXH FAN EF-35 (8)       NB	<ul> <li>'NB' INDICATES SPARE BREAKER TO BE USED FOR NEW S</li> <li>'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE IN REQUIRED.</li> <li>'D' INDICATES EXISTING BREAKER TO BE REMOVED COMP</li> <li><u>NOTES:</u> THIS CONTRACTOR IS TO INVESTIGATE BREAKERS RENOVATION, NOTING ANY BREAKERS THAT BECOM CONTRACTOR IS ALSO TO NOTIFY THE CONSULTAL BE DEMOLISHED OR REUSED, BUT WHICH ARE IN</li> </ul>	SERVICE INDICATED. IDICATED. PROVIDE MOUNTING HARDWARE AS PLETE. PROVIDE FILLER PLATES AS REQUIRED. AND REVISE PANEL SCHEDULES TO SUIT ME SPARE DUE TO DEMOLITION. THIS NT OF ANY BREAKERS THAT ARE INDICATED TO	<ul> <li>'SB' INDICATES SPARE BREAKER TO BE USED FOR N</li> <li>'NB' INDICATES NEW BREAKER AND WIRING TO SERVIREQUIRED.</li> <li>'D' INDICATES EXISTING BREAKER TO BE REMOVED</li> <li><u>NOTES:</u> THIS CONTRACTOR IS TO INVESTIGATE BREAK RENOVATION, NOTING ANY BREAKERS THAT E CONTRACTOR IS ALSO TO NOTIFY THE CONS BE DEMOLISHED OR REUSED, BUT WHICH AND AND AND AND AND AND AND AND AND AND</li></ul>	CE INDICATED. PROVIDE MOUNTING HARDWARE AS COMPLETE. PROVIDE FILLER PLATES AS REQUIRED. KERS AND REVISE PANEL SCHEDULES TO SUIT BECOME SPARE DUE TO DEMOLITION. THIS ULTANT OF ANY BREAKERS THAT ARE INDICATED TO	TITLE PANEL SCHEDULES WALTERFEDY
	NB       RM 109 PROJ./ASSIS. LIST.       15A       13       14       15A         NB       RM 111 PROJ./ASSIS. LIST.       15A       15       16       16         ER       SPACE       0       17       18       0         ER       TRANSP. PLC PANEL/CNTRLIR       20A       19       20       0         ER       TRANSPORTATION DESK REC       20A       21       22       0         ER       TRANSPORTATION SHOP GFCI REC       20A       23       24       0         ER       SPACE       0       25       26       0         ER       SPACE       0       27       28       0         ER       SPACE       0       27       28       0         DESIGNATION       SPACE       29       30       0       0	RM 110 PROJ./ASSIS. LIST.NBSPACEERSPACEERSPACEERSPACEERSPACEERSPACEERSPACEERSPACEERSPACEERSPACEER					KITCHENER   HAMILTON   TORONTO 800.685.1378 walterfedy.com
	<ul> <li>'ER' INDICATES EXISTING SERVICE AND BREAKER THAT SHOULD REMAIN</li> <li>'SP' INDICATES EXISTING BREAKER THAT MAY BECOME SPARE DUE TO INTERMALL</li> <li>'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE</li> <li>'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED. PRO</li> <li>'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PRO</li> <li>REQUIRED.</li> <li>'D' INDICATES EXISTING BREAKER TO BE REMOVED COMPLETE. PROVIDE</li> <li>NOTES: THIS CONTRACTOR IS TO INVESTIGATE BREAKERS AND REVISE INTERNOVATION, NOTING ANY BREAKERS THAT BECOME SPARE DUE</li> <li>CONTRACTOR IS ALSO TO NOTIFY THE CONSULTANT OF ANY BE</li> <li>DEMOLISHED OR REUSED, BUT WHICH ARE IN USE BY OTH</li> </ul>	DEMOLITION. (CONFIRM ON SITE) VICE DEVICES INDICATED ON PLAN ATED. DVIDE MOUNTING HARDWARE AS E FILLER PLATES AS REQUIRED. PANEL SCHEDULES TO SUIT E TO DEMOLITION. THIS REAKERS THAT ARE INDICATED TO					SCALE : As indicated DATE : 2023-12-08 PROJECT NO : 2022-0277-12 DRAWN BY : SB CHECKED BY : RL



			NOTE	<u> </u>			
			1 REF	ER TO FLO	OOR PLANS FOR EXACT LOCATION AND QUANTITIES OF	F DEVICES.	
					IS TO CONFIRM WIRE SIZE (BASED UPON LENGTH OF SIGNAL CIRCUIT WITH MANUFACTURER.	CIRCUIT RUN AND QUAN	ITITY OF
			3 PRC	VIDE THE	REQUIRED NUMBER OF SIGNAL CIRCUITS TO SUIT THI TO BE ALTERNATED.	E QUANTITY OF STROBES.	SIGNAL
ND FLOOR			4 LOC	ATE END	DF LINE RESISTORS AND ISOLATOR MODULES IN SERV	/ICE ROOMS AT ±1.8M AI	FF. PROVIDE
					EL INDICATING ZONE LABEL AND NUMBER. HIN THE CONTROLLER WILL BE PROVIDED BY THE EL	EVATOR SUPPLIER. COOR	DINATE AND
					ORDINGLY. TO INCLUDE FOR UPDATES TO EXISTING REMOTE ANN		
					ONTRACTOR IS TO PROVIDE BOOSTER MODULE FOR N		
					DV POWER AND FIRE ALARM CONNECTIONS TO FIRE/S		
			LOC ASS PRC 120	ATION/CON OCIATED II VIDE MON V POWER	TOR. REFER TO FIRE ALARM RISER AND SPECIFICATIO INECTION REQUIREMENTS WITH MECHANICAL CONTRACT NTEGRAL SMOKE DETECTOR TO BE PROVIDED AND INS TORING MODULE(S) PER FIRE/SMOKE DAMPER TO INI CONNECTION TO DAMPER DETECTOR AND ACTUATOR A INE DETECTOR AS ALARM SIGNAL.	TOR. SMOKE/FIRE DAMPEI STALLED BY MECHANICAL DICATE TROUBLE SIGNAL	CONTRACTOR. FOR LOSS OF
Ē	RE ALARM ANNUNCIATOR SC	CHEDULE					
 Zone	_	CHEDULE Alarm	New	Zone	Description	Alarm	New
	_		New	Zone 25	Description DUCT DETECTORS	Alarm	New
	Description		New			Alarm	New
Zone	Description GROUND FLOOR NORTH WEST		New	25	DUCT DETECTORS	Alarm	New
Zone	Description       GROUND FLOOR NORTH WEST       GROUND FLOOR WEST		New	25 26	DUCT DETECTORS SECOND FLOOR SOUTH	Alarm	New
Zone	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST		New	25 26 27	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH	Alarm	New
Zone 1 2 3 4	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE		New	25 26 27 28	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204	Alarm	New
Zone 1 2 3 4 5	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR SOUTH EAST		New	25 26 27 28 29	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM	Alarm	New
Zone 1 2 3 4 5	DescriptionGROUND FLOOR NORTH WESTGROUND FLOOR WESTGROUND FLOOR SOUTH WESTGROUND FLOOR SOUTH CENTREGROUND FLOOR SOUTH EASTGROUND FLOOR CAFETERIA		New	25 26 27 28 29 30	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR	Alarm	New
Zone 1 2 3 4 5 6 7	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR SOUTH EAST         GROUND FLOOR CAFETERIA         BOILER		New	25 26 27 28 29 30 31	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT	Alarm	New
Zone 1 2 3 4 5 6 7	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR SOUTH EAST         GROUND FLOOR CAFETERIA         BOILER         DOUBLE GYM NORTH CENTRE         GROUND FLOOR NORTH PORTABLES		New	25 26 27 28 29 30 31 32	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT KITCHEN HOOD ROOM 3116		
Zone 1 2 3 4 5 6 7 8 9	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR CAFETERIA         BOILER         DOUBLE GYM NORTH CENTRE         GROUND FLOOR NORTH PORTABLES		New	25 26 27 28 29 30 31 31 32 33	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT KITCHEN HOOD ROOM 3116 ELEVATOR SHAFT		•
Zone 1 2 3 4 5 6 7 8 9 10	Description         GROUND FLOOR NORTH WEST         GROUND FLOOR WEST         GROUND FLOOR SOUTH WEST         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR SOUTH CENTRE         GROUND FLOOR CAFETERIA         BOILER         DOUBLE GYM NORTH CENTRE         GROUND FLOOR NORTH PORTABLES         GROUND FLOOR NORTH PORTABLES         TRANSFORMER TOOM 1111A		New	25 26 27 28 29 30 31 31 32 33 33 34	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT KITCHEN HOOD ROOM 3116 ELEVATOR SHAFT ELEVATOR SHAFT		
Zone 1 2 3 4 5 6 7 8 9 10 11	DescriptionGROUND FLOOR NORTH WESTGROUND FLOOR WESTGROUND FLOOR SOUTH WESTGROUND FLOOR SOUTH CENTREGROUND FLOOR SOUTH EASTGROUND FLOOR SOUTH EASTGROUND FLOOR CAFETERIABOILERDOUBLE GYM NORTH CENTREGROUND FLOOR NORTH PORTABLESGROUND FLOOR EAST PORTABLESTRANSFORMER TOOM 1111ATRANSFORMER TOOM 1106		New	25 26 27 28 29 30 31 31 32 33 33 34 35	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT KITCHEN HOOD ROOM 3116 ELEVATOR SHAFT ELEVATOR SHAFT		
Zone 1 2 3 4 5 6 7 8 9 10 11 12	DescriptionGROUND FLOOR NORTH WESTGROUND FLOOR WESTGROUND FLOOR SOUTH WESTGROUND FLOOR SOUTH CENTREGROUND FLOOR SOUTH CENTREGROUND FLOOR SOUTH EASTGROUND FLOOR CAFETERIABOILERDOUBLE GYM NORTH CENTREGROUND FLOOR NORTH PORTABLESGROUND FLOOR EAST PORTABLESTRANSFORMER TOOM 1111ATRANSFORMER TOOM 1106CENTRAL STAIR		New	25 26 27 28 29 30 31 31 32 33 33 34 35 36	DUCT DETECTORS SECOND FLOOR SOUTH SECOND FLOOR NORTH TECH 1204 KITCHEN HOOD SUPPRESSION SYSTEM GREENHOUSE STAIR ELEVATOR SHAFT KITCHEN HOOD ROOM 3116 ELEVATOR SHAFT ELEVATOR SHAFT		
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KEYPLAN



The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing. © 2024 DEI Consulting Engineers Inc.



MECHANICAL | ELECTRICAL | AQUATIC

## WATERLOO DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

CLIENT

PROJECT

WRDSB EDSS RENOVATIONS

4 UNIVERSITY AVE EAST, ELMIRA, ONTARIO N3B 1K2



