

WATERLOO REGION DISTRICT SCHOOL BOARD PRESTON HIGH PS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

WalterFedy Project No.: 2023-0705-11 ISSUED FOR BID & PERMIT 2024-03-13

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DRAWING LIST

	TECTURE
A001	ASSEMBLIES, LEGENDS, NOTES AND DOOR AND SCREEN SCHEDULE
A101	OVERALL SITE PLAN AND OBC MATRIX
A201	DEMOLITON PLANS
A201	ENLARGED FLOOR PLANS, DETAILS
A202	REFLECTED CEILING PLANS AND TYPICAL DETAILS
A501	SECTION DETAILS
ASUT	SECTION DETAILS
STRUC	CTURAL
S001	GENERAL NOTES AND TABLES
S002	TYPICAL DETAILS
S201	PARTIAL GROUND FLOOR PLAN AND SECTIONS
MECH	ANICAL
M1.1	KEY PLAN, LEGEND & SCHEDULES
M1.2	DETAILS
M2.1	GROUND FLOOR PART PLANS 'A' & 'B' - DEMOLITION - DRAINAGE, PIPING, HEATING & DUCTWORK
M3.1	GROUND FLOOR PART PLANS 'A' - DRAINAGE, PIPING, DUCTWORK & SPRINKLER
M4.2	MECHANICAL SPECIFICATION
ELECT	RICAL
E1.1	KEY PLAN AND LEGEND
E2.1	WASHROOMS/CORRIDOR PARTIAL GROUND FLOOR - DEMOLITION PLANS
E2.2	WASHROOMS/CORRIDOR PARTIAL GROUND FLOOR - RENOVATION PLANS
50.0	

E2.3SCIENCE LAB #107 - DEMOLITION AND RENOVATION PLANSE3.1ELECTRICAL SPECIFICATIONS 1 OF 2E3.2ELECTRICAL SPECIFICATIONS 2 OF 2

EMERGENCY LIGHTING SHALL BE PROVIDED FOR MIN ½ HR TO AN AVERAGE LEVEL OF AT LEAST 10Ix IN AREAS REQUIRED BY 3.2.7.3.(1)

ANY RENOVATIONS TO THE EXISTING SPRINKLER SYSTEM WILL REQUIRE A "RENOVATION SPRINKLER SYSTEM VERIFICATION CERTIFICATE" COMPLETED AND RETURNED TO FIELD INSPECTOR

PLEASE CALL THE INSPECTOR BEFORE COMMENCEMENT OF CONSTRUCTION

NEITHER THE GRANTING OF A PERMIT NOR REVIEWING OF SPECS & DRAWINGS NOR INSPECTIONS MADE DURING INSTALLATION BY THE OFFICIAL HAVING JURISDICTION SHALL RELIEVE THE OWNER FROM REQUIREMENTS OF THE ONTARIO BUILDING CODE AND ANY OTHER REFERENCED REQUIREMENTS

THE ARCHITECT OR PROFESSIONAL ENGINEER OR BOTH SHALL BE RESPONSIBLE FOR THE FIELD REVIEW OF THIS BUILDING DURING THE COURSE OF CONSTRUCTION TO ENSURE CONFORMANCE TO THE DESIGN



THESE PLANS HAVE BEEN EXAMINED FOR COMPLIANCE WITH THE ONTARIO BUILDING CODE REQUIREMENTS. A BUILDING PERMIT IS IN ORDER TO ISSUE SUBJECT TO ANY CHANGES NOTED UNDER THE CONDITION THAT THE BUILDING WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CODE

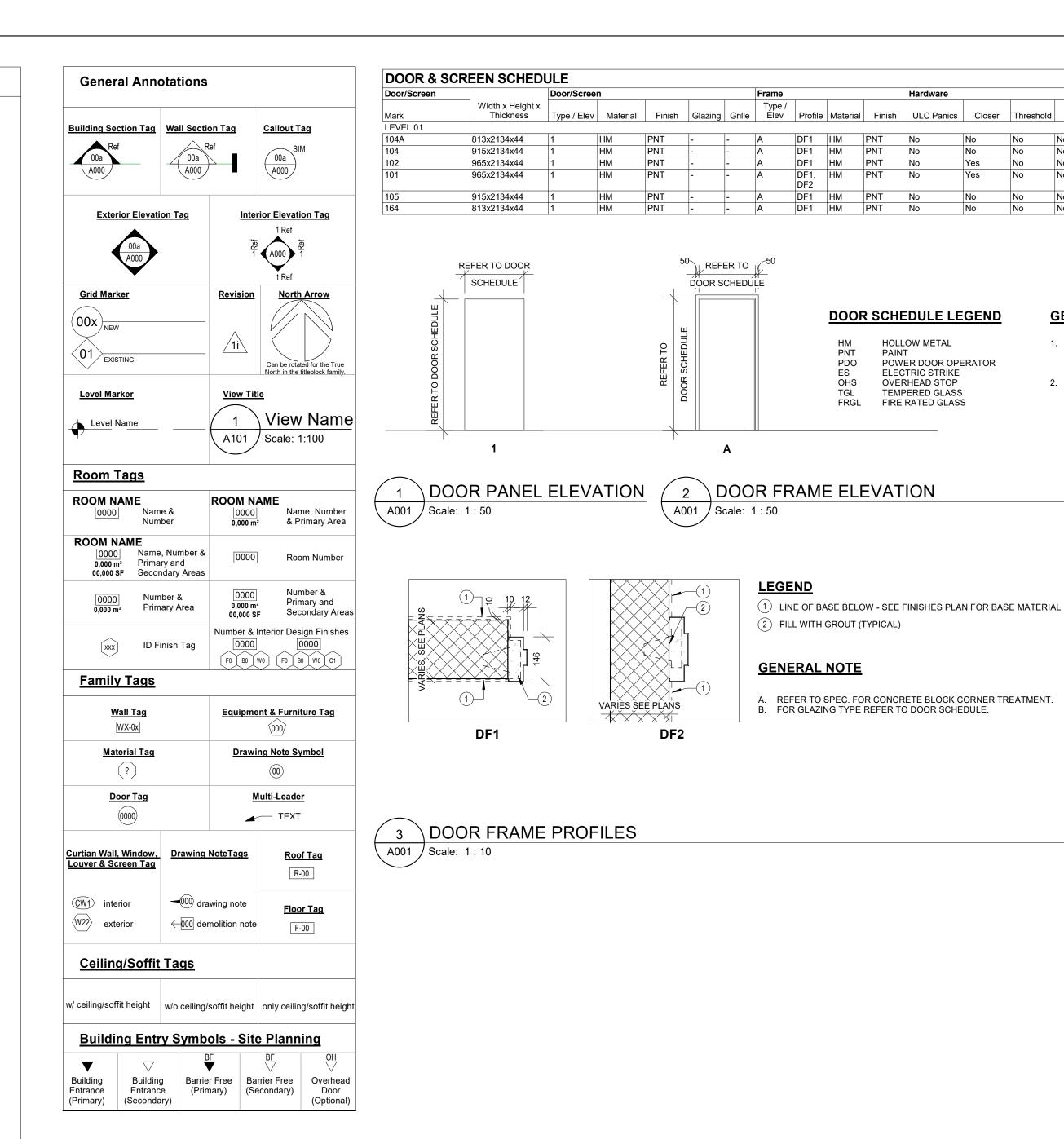
WALTERFEDY

2024-05-15

ASBESTOS REMOVAL AND REPAIR MUST BE PERFORMED IN ACCORDANCE WITH O. REG. 278/05 AND OCCUPATIONAL HEALTH AND SAFETY ACT. ASBESTOS WASTE MUST BE DISPOSED IN ACCORDANCE WITH ONTARIO REGULATION 347 AND THE ENVIRONMENTAL PROTECTION ACT.

ACT ACOUSTIC CEILING TILE AFF ABOVE FINISHED FLOOR ALUM ALTERNATE ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS AC AIR CONDITIONING ALUM ALUMINUM ARCH ARCHITECTURAL ASPH ASPHALT BD BOARD BLK BLOCK BK BEAM BRK BRICK BLOCK BK BLOCK BK GBLOCKING BCT GENT CE CERAMIC CEM CEMENT CER CERAMIC CFM CUBIC FEET PER MINUTE CG CORNER GUARD CGSB CANADIAN GENERAL STANDARD BOARD CGSB CANADIAN GENERAL STANDARD BOARD CG CORNER GUARD CGSB CANADIAN GENERAL STANDARD BOARD CH COAT HOOK CHH COAT HOOK HANDICAPPED CI CAST IRON CJ CONTROL JOINT CM CENTIMETER CONC CONCRETE CORR CORRIDOR CR CARD FEADER CT CERMIC TILE CW COLD WATER COL COLUMN CONT CONTINUOUS CFT CARPET CARDE CT CENTRE CONC CONCRETE CONC CONCRETE CONT COUTINUOUS CFT CARPET CARDE DIM DIMENSION DO DITTO DR DOOR DS DOWNSPOUT DWG DRAWING E E EAST EA EACH EIFS EXTERIOR INSULATION FINISH SYSTEMS ELEV ELEVATION ELEC ELECTRIC(AL) ENCL ENCLOSURE ENT ENTRANCE EQ EQUAL EYPE EXTERIOR FA FIRE ALARM STATION FD FLOOR DRAIN FN FOUNDATION FD FLOOR DRAIN FN FIRE ALARM STATION FD FLOOR DRAIN FN FOUNDATION FN FOUNDATION FN FOUNDATION FN FOUNDATION FN FIRE ALARM STATION FD FLOOR DRAIN FN FIRE HALARM STATION FD FLOOR DRAIN FN FIRE HALARM STATION FD FLOOR DRAIN FN FIRE HOSE CABINET FF FIRE EXTINGUISHER FEC FIRE EXTINGUISHER FEC FIRE EXTINGUISHER FEC FIRE ALARM STATION FD FLOOR DRAIN FN FIRMING FVC FIRE VALVE CABINET FIG FOOTING FVC FIRE VALVE CABINET FIG FOOTING FVC FIRE VALVE CABINET FIG HOSE BIB HC HANDICAPED HC HONR HL FLOOR FN FURHTING FVC FIRE VALVE CABINET FIG HOSE CANT FIG HOSE DIAMETER HO INSIDE DIAMETER HOUND HENCEN HT HEIGHT HW HOT WATER HO INSULATION FINISULATED HT HEIGHT HW HOT WATER HO INSULATION FINISULATED	ABBREV	/IATIONS
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INCAN INCANDESCENT	HW	HOT WATER
INV INVERT	INSUL	INSULATION or INSULATED
JAN JANITOR'S CLOSET JT JOINT	JAN	JANITOR'S CLOSET
JST JOIST	JST	JOIST
KD KNOCK DOWN KO KNOCK OUT		

KP KICK PLATE LAB LABORATORY LAM LAMINATE LAV LAVATORY LED LIGHT EMITTING DIODE Μ MEN'S METERS m MASONRY MAS MAXIMUM MAX MECH MECHANICAL MET METAL MEZZ MEZZANINE MFR MANUFACTURER MIN MINIMUM MIR MIRROR MIRH MIRROR HANDICAPPED MISC MISCELLANEOUS mm MILIMETER MO MASONRY OPENING MPH MOP HOLDER Ν NORTH ND NAPKIN DISPOSAL NIC NOT IN CONTRACT NATIONAL FIRE PREVENTION ASSOCIATION NFPA No. NUMBER NOM NOMINAL NOT TO SCALE NTS OA OVERALL OBC ONTARIO BUILDING CODE OC ON CENTRE OD OUTSIDE DIAMETER O/H OVERHEAD OH OPPOSITE HAND OPNG OPENING OPP OPPOSITE OWSJ OPEN WEB STEEL JOIST PTN PARTIITON PCONC PRECAST CONCRETE PG PIPE GUARD PL PLATE PLAM PLASTIC LAMINATE PLEXI PLEXIGLASS PLYWD PLYWOOD PNT PAINT POL POLISHED PR PAIR PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PT POINT PVC POLYVINYL CHLORIDE QT QUARRY TILE R RADIUS RCP REFLECTED CEILING PLAN RD ROOF DRAIN REINFORCE REQ'D REQUIRED RESIL RESILIENT REV REVISION RM ROOM RO ROUGH OPENING RWL RAIN WATER LEADER SOUTH S SCH SCHEDULE SD SOAP DISPENSER SEAL SEALANT SECT SECTION SF SQUARE FEET SHROD/C SHOWER ROD WITH CURTAIN SHT SHEET SIM SIMILAR SN STAIR NOSING SP STANDPIPE SPEC SPECIFICATION SQ SQUARE S.S. STAINLESS STEEL STD STANDARD STL STEEL STRUCT STRUCTURAL SYM SYMMETRICAL ΤВ TACK BOARD TD TRENCH DRAIN TEL TELEPHONE T & G TONGUE & GROOVE THK THICK TRESHOLD THR T.O. TOP OF TYP TYPICAL U/C UNDERCUT U/G UNDERGROUND UL UNDERWRITER LABORATORY UNFIN UNFINISHED UON UNLESS OTHERWISE NOTED U/S UNDERSIDE UTIL UTILITY VCT VINYL COMPOSITION TILE VEST VESTIBULE W WEST WC WATER CLOSET WD WOOD WHTR WATER HEATER WP WATERPROOF(ING) WR WASHROOM WS WEATHERSTRIPPING WΤ WEIGHT WWF WELDED WIRE FABRIC WWM WELDED WIRE MESH



old	Weather Strip	Fire Rating	Notes
	No	-	OHS
	No	-	OHS
	No	-	ES,OHS, PDO
	No	-	ES,OHS, PDO
	No	-	OHS
	No	-	OHS

GENERAL NOTE

- 1. FRAME HEAD HEIGHT TO BE 50mm (2") UNLESS OTHERWISE NOTED. 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.

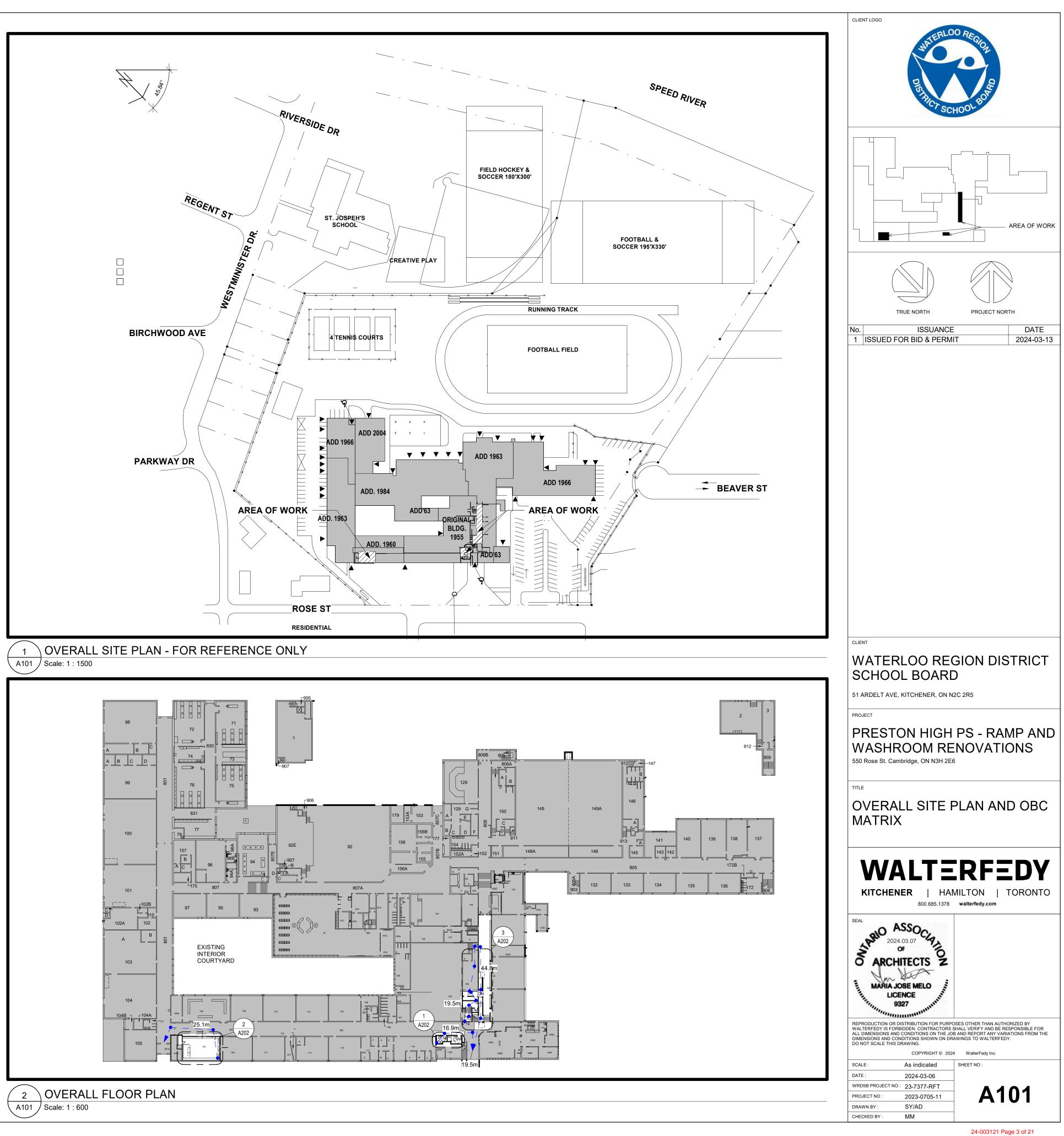
CLIENT LOGO		
		DATE
1 ISSUED FOR BID & PERMI	T	2024-03-13
CLIENT WATERLOO REC SCHOOL BOARD 51 ARDELT AVE, KITCHENER, ON N2)	TRICT
PROJECT PRESTON HIGH WASHROOM RE 550 Rose St. Cambridge, ON N3H 2E6	NOVATIO	
ASSEMBLIES,LE NOTES AND DO SCREEN SCHED	OR AND	
WALTE KITCHENER HAN 800.685.1378	RFE MILTON 1 walterfedy.com	
SEAL ASSO 2024.03.07 OF ARCHITECTS MARIA JOSE MELO LICENCE 9327 MARIA POSE MELO NARIA JOSE MELO REPRODUCTION OR DISTRIBUTION FOR PURPO		
REPRODUCTION OR DISTRIBUTION FOR PURPO WALTERFEDY IS FORBIDDEN. CONTRACTORS S ALL DIMENSIONS AND CONDITIONS ON THE JOD DIMENSIONS AND CONDITIONS SHOWN ON DR/ DO NOT SCALE THIS DRAWING. COPYRIGHT © 2024	SHALL VERIFY AND BE RES 3 AND REPORT ANY VARIA AWINGS TO WALTERFEDY	SPONSIBLE FOR
SCALE : As indicated DATE : 2024-03-06 WRDSB PROJECT NO : 23-7377-RFT	SHEET NO :	0.4
PROJECT NO : 2023-0705-11 DRAWN BY : SY/AD CHECKED BY : MM	A 0	U1
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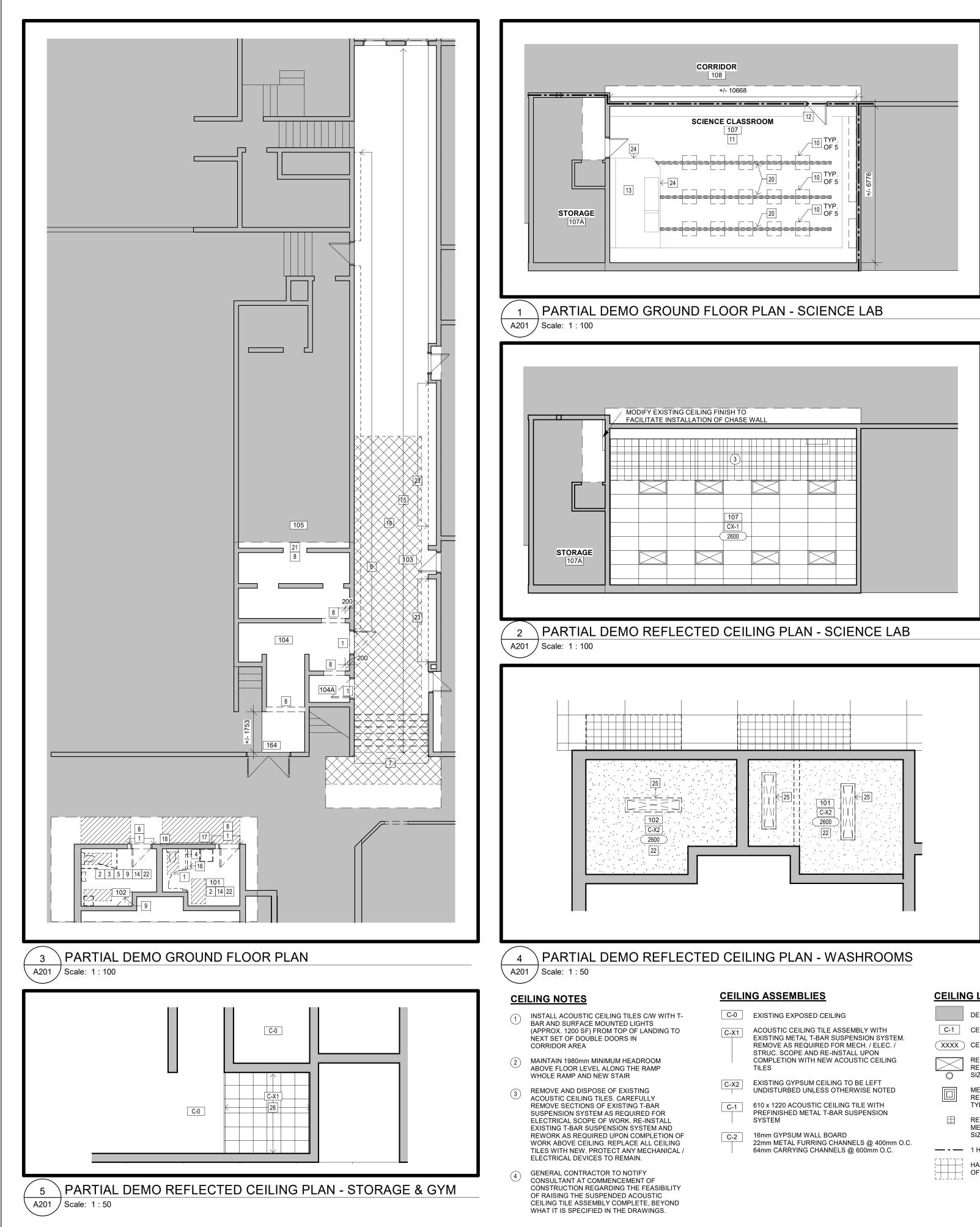
24-003121 Page 2 of 21

		Ontario's 2012 Building			OBC Reference
	[Data Matrix Part 11			
11.1	Existing Building Classification	Describe Existing Use: GROUP A Construction Index: - Hazard Index: - Not Applicable (no change of major))L)	11.2.1. T11.2.1.1A T11.2.1.1B-N
11.2	Alteration to Existing Building is	Basic Renovation ■ Extensive 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 No 	 ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes 	11.4.2. 11.4.2.15
11.4	Compensating Construction	Structural -	■ No	☐ Yes (explain)	11.4.3. 11.4.3.2.
		Increase in Occupant Load -	■ No	☐ Yes (explain)	11.4.3.3.
		Change of Major Occupancy -	No No	☐ Yes (explain)	11.4.3.4.
		Plumbing - Renovation to existing single use accessible washroom - fixture cou		☐ Yes (explain)	11.4.3.5.
		Sewage System - Renovation to existing single use accessible washroom - fixture cou	■ No washroom into nt to remain unchanged	☐ 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.

OBC NOTES:

- 1. MAJOR OCCUPANCY: GROUP A2 TO REMAIN (SECONDARY SCHOOL)
- 2. EXISTING BUILDING AREA: <u>12,098.64 m² (130,228.67 SF)</u>
- 3. GROSS BUILDING AREA: <u>17,190.6 m² (185,038 SF)</u> EXISTING
- 4. AREA OF RENOVATION: <u>220.8 m² (2377 SF)</u>
- 5. EXISTING BUILDING: SPRINKLERED
- 6. FIRE ALARM EXISTING TO REMAIN
- 7. IN AN ELEMENTARY OR SECONDARY SCHOOL, A HAZARDOUS CLASSROOM SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY A FIRE-SEPARATION HAVING A FIRE-RESISTANCE RATING NOT LESS THAN, 30 MIN WHERE THE BUILDING IS SPRINKLERED. AS CLASSROOM 107 IS AN EXISTING SCIENCE LAB, SHOULD ANY FIRE RATINGS BE DISTURBED ALONG THE CLASSROOM, THEY SHALL BE REPAIRED AND MAINTAINED TO HAVE A 30 MIN. FIRE RESISTANCE RATING. 3.3.2.2(4)(B).
- 8. FIRE RESISTANCE RATING FOR THE CORRIDOR IS NOT REQUIRED AS THE CORRIDOR IS SPRINKLERED. 3.3.2.5(3) AND FIRE SEPARATION IS WAIVED AS THE EXIT TRAVEL DISTANCE DOES NOT EXCEED 45M AS PER 3.3.2.5(4).





C-0	EXISTING EXPOSED CEILING
C-X1	ACOUSTIC CEILING TILE ASSEMBLY WIT EXISTING METAL T-BAR SUSPENSION S REMOVE AS REQUIRED FOR MECH. / EL STRUC. SCOPE AND RE-INSTALL UPON COMPLETION WITH NEW ACOUSTIC CE TILES
C-X2	EXISTING GYPSUM CEILING TO BE LEFT UNDISTURBED UNLESS OTHERWISE NO
C-1	610 x 1220 ACOUSTIC CEILING TILE WIT

CEILING LEGEND

- DENOTES AREAS NOT IN SCOPE
- C-1 CEILING ASSEMBLY
- XXXX) CEILING HEIGHT ABOVE FINISHED FLOOR RECESSED LED LIGHT FIXTURE,
- REFER TO ELEC. DRAWINGS FOR TYPE AND SIZE MECHANICAL SUPPLY AIR DIFFUSER,
- REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE RETURN AIR GRILLE, REFER TO
- MECHANICAL DRAWINGS FOR TYPE AND SIZE
- HATCHED AREA DENOTES APPROX. AREA OF CEILING REMOVAL AND REWORK.

ROOM LEGEND

1	WASHROOM 1
2	WASHROOM 2
3	CORRIDOR
4	MAIN OFFICE STORAGE
1A	STORAGE ROOM
5	BOYS' CHANGE ROOM
7	SCIENCE CLASSROOM
7A	STORAGE
8	CORRIDOR
4	GYMNASIUM

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.
- REGULATIONS.
- 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 REMOVED AND DISPOSED OF PER PROVINCIAL AND LOCAL REGULATIONS F. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND/OR DEMOLITION NOTES FOR DETAILS OF MECHANICAL AND ELECTRICAL DEMOLITIONS
- SURFACES AND ASSEMBLIES.
- CONTRACTOR TO PROVIDE RE-SUPPORT AS REQUIRED TO SUIT PHASING.
- 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 WALL/FLOOR.
- WITHOUT ADDITIONAL COST TO OWNER OR CONSULTANT.
- AND/OR EXISTING FINISHES.
- OF THE GENERAL CONTRACTOR TO DISPOSE OF ITEMS.
- DOCUMENTATION PRIOR TO COMMENCING WORK.
- MOUNTED DISPLAYS PRIOR TO CONSTRUCTION START. Q. ANY MECHANICAL OR ELECTRICAL DEVICES THAT MAY BE TEMPORARILY REMOVED AND REINSTALLED FOR THIS
- WORK SHALL BE TESTED. AS REQUIRED.
- S. PREPARE ALL THE SURFACES TO BE ACCEPTABLE FOR PROPOSED FINISHING AFTER DEMOLITION WORKS
- T. OBTAIN SCHOOL APPROVAL OF DEMOLITION SCHEDULE AND LOCATION OF BINS.

DEMOLITION NOTES

- REMAIN.
- MECH. DWGS FOR SCOPE OF WORK ...
- 3 REMOVE AND DISPOSE OF EXISTING WASHROOM PARITIONS C/W DOORS, MISC. STRAPS, ANCHORS, AND FASTENERS.
- ALL ADJACENT SURFACES TO REMAIN.
- 5 EXISTING MILLWORK TO BE REMOVED AND RETURNED TO OWNER C/W MISC. ACHORS / BLOCKING USED TO SECURE PROPOSED FINISHES.
- STORED ON SITE AND RE-INSTALLED WITHIN NEW MILLWORK DISPLAY CASE.
- TO REMAIN.
- 8 SAWCUT AND REMOVE PORTION OF EXISTING MASONRY WALL ASSEMBLY TO ACCEPT PROPOSED DOOR AND FRAME.
- 9 EXISTING PLUMBING PIPE AND CLEAN OUT TO REMAIN EXPOSED
- REMOVE AND DISPOSE OF EXISTING STUDENT BENCH DESK, COMPLETE. REFER TO ELECTRICAL FOR RECEPTACLES REMOVAL
- REMOVE EXISTING VCT TILE C/W ADHESIVES. REPAIR MILLWORK AREAS TO MATCH EXISTING AS REQUIRED UPON
- REMOVAL OF THE FLOOR TILES.
- SCOPE OF WORK, REFER TO ELECTRICAL.
- 13 FLOORING BASE AND MILLWORK TO REMAIN UNDISTURBED AT RAISED PODIUM.
- AREAS). PREPARE SURFACE IN ITS ENTIRETY TO RECEIVE PROPOSED FLOORING FINISH.
- (MINIMUM HEADROOM REQUIRED BY OBC IS 1980mm).
- 16 REMOVE EXISTING SHELVING AROUND PIPE.
- 18 EXISTING ELECTRICAL PANEL TO REMAIN.
- FLOOR FINISH AND BASE TO MATCH EXISTING.
- AND MAKE GOOD ALL ADJACENT SURFACES TO REMAIN.
- MAKE GOOD ALL ADJACENT SURFACES TO REMAIN TO ACCEPT NEW CEILING.
- 24 WOOD COVE BASE TO BE REMOVED TO ACCOMMODATE NEW RUBBER COVE BASE.
- REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- ADJACENT SURFACES TO REMAIN TO ACCEPT NEW CEILING.

TRENCHING LEGEND

1.	ALL TRENCHING DIMENSIONS ARE APPROXIN DEMOLITION OF FLOOR SLAB TYPICAL.
	HATCHED AREA DENOTES APPROXIMATE EX EXCAVATE AND TRENCH AS REQUIRED FOR SCOPE. APPROXIMATE EXTENT SHOWN HAT
	HATCHED AREA DENOTES CONCRETE INFILL ADJACENT EXISTING FLOOR FINISH. PATCH A SUBSTRATE TO RECEIVE NEW FLOOR FINISH TYPICAL.
	HATCHED AREA DENOTES APPROXIMATE EX REFER TO STRUCTURAL DRAWINGS AND DE EXTENT OF REMOVAL.

B. CARRY OUT ALL DEMOLITION, REMOVAL AND DISPOSAL IN ACCORDANCE WITH APPLICABLE PROVINCIAL AND LOCAL

C. EXECUTE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ADJACENT

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

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

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 WORKING DAY. FIRE WATCH MUST BE PROVIDED BY DEMOLITION/ABATEMENT TRADE

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

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

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

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

R. LOCATE AND DISCONNECT, CAP AND PLUG ALL GAS, WATER, SEWER, HYDRO, TELEPHONE AND OTHER SERVICES

REMOVE EXISTING DOOR C/W FRAME AND ALL HARDWARE. PATCH AND MAKE GOOD ALL ADJACENT SURFACES TO

REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES. DISCONNECT AND CAP ALL SERVICES AS REQ'D. REFER TO

REMOVE AND DISPOSE OF EXISTING CONC. BLOCK WALL FULL HEIGHT C/W TERRAZZO BASE. PATCH AND MAKE GOOD

ITEMS AS REQ'D FOR AREA OF RENOVATION. PATCH AND MAKE GOOD ALL SURFACES TO REMAIN TO ACCEPT

REMOVE MILLWORK DISPLAY CASE IN ITS ENTIRETY C/W FASTENERS AND ANCHORS. PLAQUES TO BE CAREFULLY

7 CAREFULLY REMOVE EXISTING TERRAZZO STAIRS, COMPLETE. PATCH AND REPAIR ADJACENT TERRAZZO SURFACES

12 PATCH AND MAKE GOOD TO ALL SURFACES INCLUDING MILLWORK WALL PANELING AS REQUIRED BY ELECTRICAL

14 EXISTING SECTIONS OF TERRAZZO FLOORING, REQUIRED FOR TRENCHING (REFER TO HATCH SHOWING APPROXIMATE REMOVE ACOUSTIC CEILING TILE C/W TBAR AND RAISE 8" TO ACCOMMODATE REQUIRED HEAD HEIGHT FOR RAMP

REMOVE AND DISPOSE OF TACKBOARDS C/W FASTENERS AND PATCH AND MAKE GOOD TO ADJACENT SURFACES.

REMOVE EXISTING TERRAZZO FLOORING TO ACCOMMODATE THE NEW RAMP. PATCH AND REPAIR EXISTING TERRAZZO

20 REMOVE EXISTING GAS PIPING C/W FLOOR TRENCH LIDS, CAP SERVICES AT TEACHERS DESK, REFER TO MECHANICAL. REMOVE AND DISPOSE OF EXISTING WALL TILE C/W TERRAZO BASE TO ACCOMMODATE NEW DOOR AND FRAME. PATCH

REMOVE AND DISPOSE OF EXISTING GYPSUM CEILING AND METAL SUPPORT FRAMING IN ITS ENTIRETY, PATCH AND

REMOVE AND DISPOSE OF EXISTING LOCKERS. REMOVE TERRAZZO FLOOR FINISH UP TO EXISTING JOINT AT EXISTING TERRAZZO COVE BASE TO REMAIN. PATCH AND MAKE GOOD ALL ADJACENT SURFACES TO REMAIN.

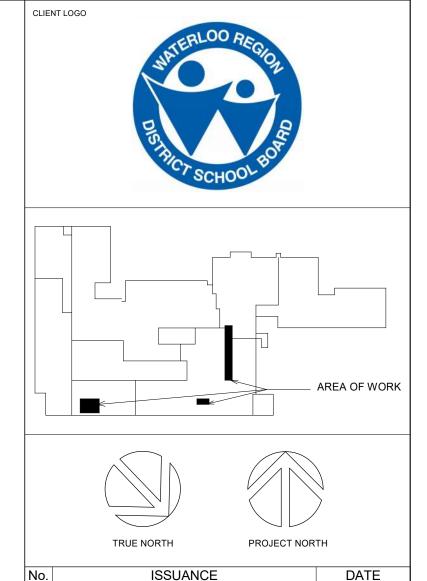
REMOVE AND DISPOSE OF EXISTING 300X300 CEILING TILE C/W TBAR IN ITS ENTIRETY, PATCH AND MAKE GOOD ALL

KIMATE, GC TO SITE VERIFY TRENCHING REQUIRED TO MINIMIZE

EXTENT TO SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. MECHANICAL, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL TCHED.

LL OF TRENCHING (APPROX. 190 mm THICK), FINISH FLUSH WITH AND MAKE GOOD WITH EXISTING ADJACENT SURFACE AND PREPARE SH - REFER TO DETAIL C206/S002 FOR SLAB-ON-GRADE REPAIR DETAIL

EXTENT OF REMOVAL OF TERRAZZO FLOORING AND CONCRETE SLAB. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR DEMOLITION SCOPE. CONTRACTOR TO SITE VERIFY THE



2024-03-13

1 ISSUED FOR BID & PERMIT

CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD

51 ARDELT AVE, KITCHENER, ON N2C 2R5

PROJECT

PRESTON HIGH PS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

SCALE :

DATE :

PROJECT NO

DRAWN BY CHECKED BY :

DEMOLITON PLANS





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> > 2024-03-06

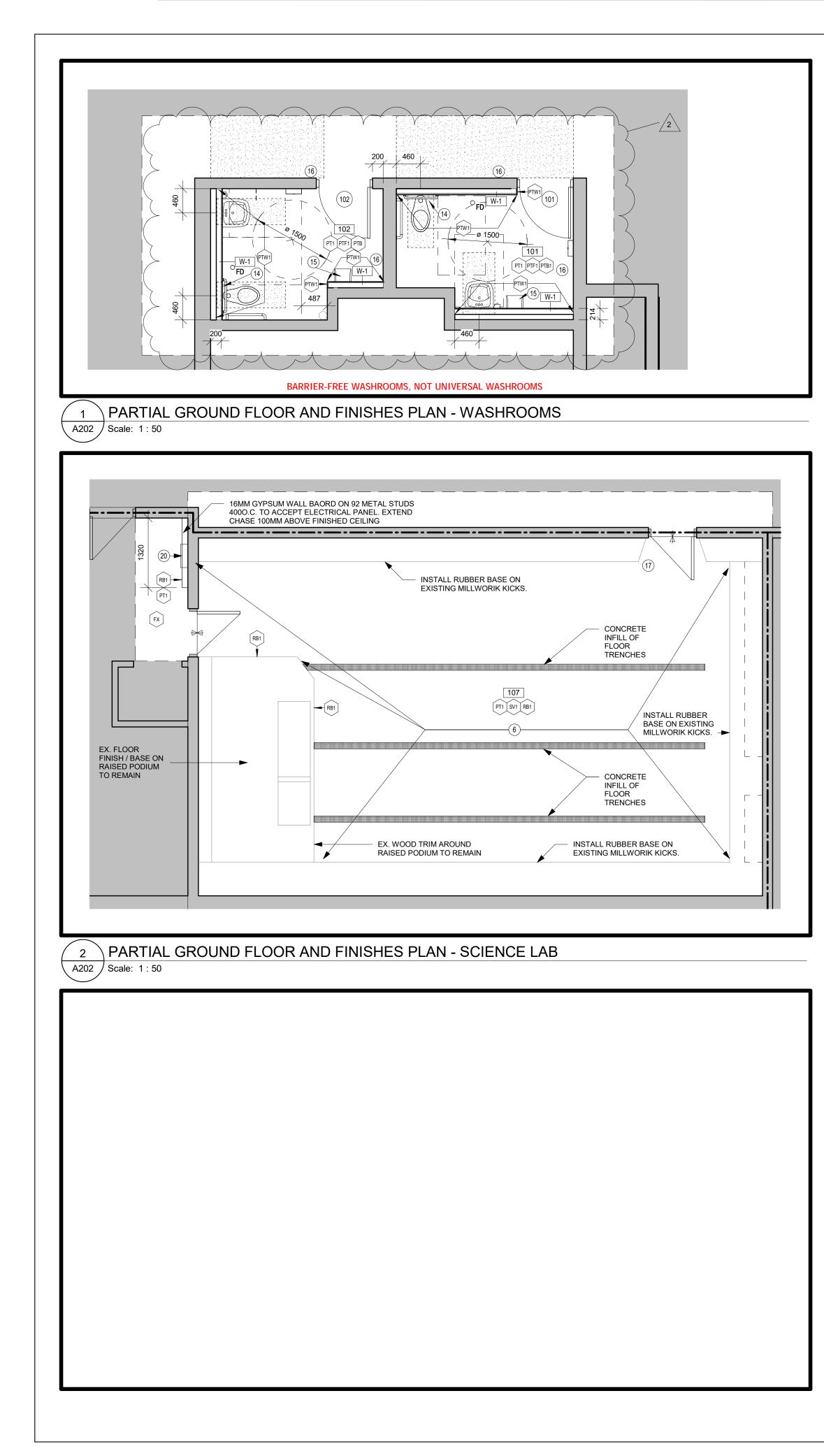
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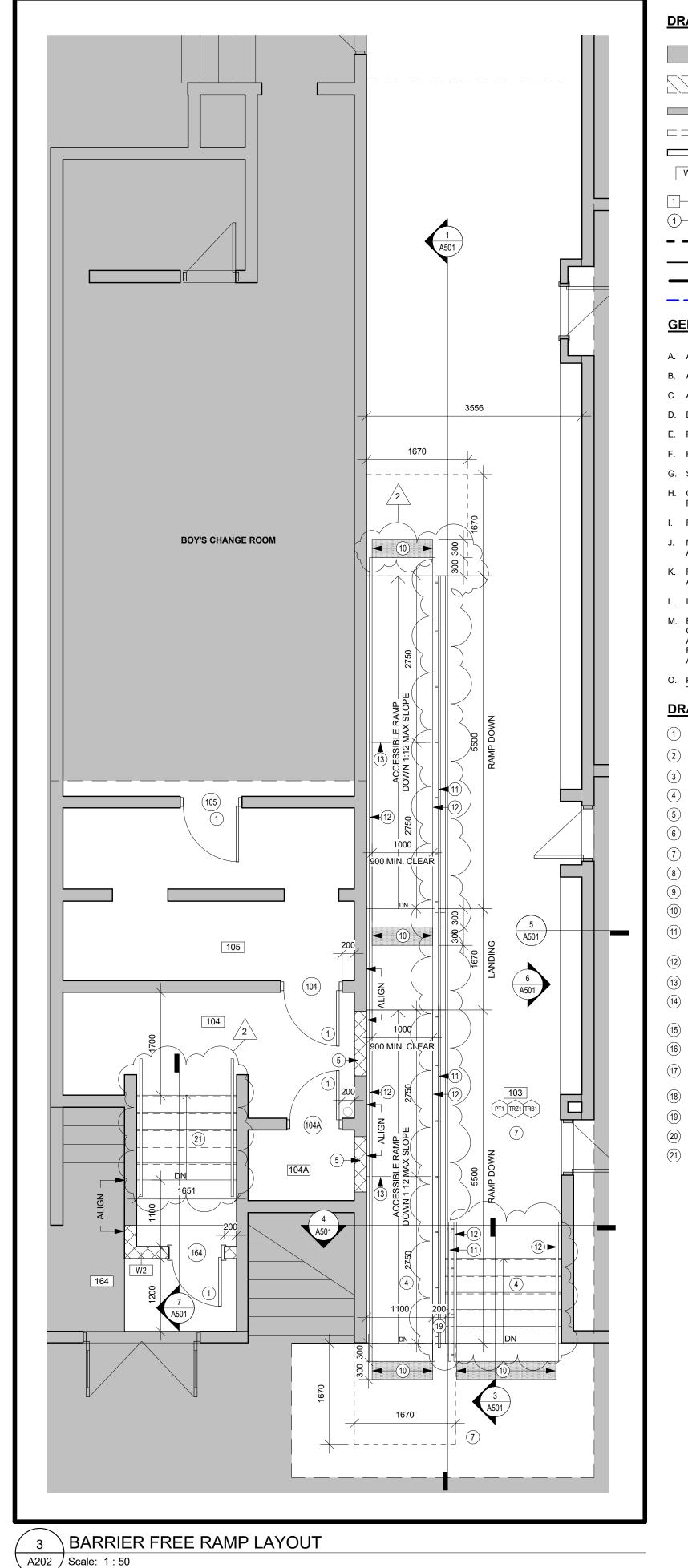
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WRDSB PROJECT NO : 23-7377-RFT







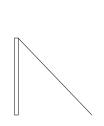
DRAWING LEGEND HATCH DENOTES AREA NOT IN ARCHITECTURAL SCOPE OF WORK - TYP. HATCH DENOTES AREA OF DEMOLITION. EXISTING WALL(S) TO REMAIN. (0000) $\Box \equiv \Box \equiv \Box$ EXISTING WALL(S) TO BE DEMOLISHED. FD NEW WALL - REFER TO WALL ASSEMBLY LEGEND FOR DETAILS. 00° W-1 $1 \longrightarrow DEMOLITION NOTE SYMBOL$ (1) RENOVATION NOTE SYMBOL - - - FIRE RESISTANCE RATING 0HR ----- FIRE RESISTANCE RATING 30 MIN. FIRE RESISTANCE RATING 1 HR ----- TRAVEL DISTANCE GENERAL NOTES A. ALL WALLS TO EXTEND TO U/S STRUCTURAL DECK UNLESS OTHERWISE NOTED. B. ASSEMBLY CONSTRUCTION READ FROM TAG SIDE OF ASSEMBLY. C. ALL DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO SITE VERIFY ALL DIMENSIONS. D. DIMENSIONING TO/FROM EXISTING CONDITIONS SHALL BE AT FACE OF EXISTING ASSEMBLY. E. PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED EQUIPMENT. F. REFER TO ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED EQUIPMENT SIZE AND TYPE G. SEE MECHANICAL DRAWINGS FOR HVAC EQUIPMENT SIZE AND TYPE. H. CONTRACTOR TO PROTECT ALL EXISTING INTERIOR FINISHES, MECHANICAL, ELECTRICAL, MILLWORK AND FURNITURE TO REMAIN DURING ALL PHASES OF CONSTRUCTION. FIRESTOP AND SEAL ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES EQUAL TO ASSEMBLY RATING. MAKE GOOD ALL CEILING TILE/WALLS/SURFACES AFTER CONSTRUCTION, FIX AND PAINT WALLS DAMAGED BY CONSTRUCTION AND/OR REPLACE CEILING IF DAMAGED BY CONSTRUCTION AT NO EXPENSE TO THE SCHOOL BOARD. . REMOVE AND REINSTALL CEILINGS REQ'D TO BE DISTURBED DURING DEMOLITION AND CONSTRUCTION WHERE NEEDED. ADJUST CEILINGS ACCORDINGLY WHERE REQUIRED. L. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFER TO ASBESTOS AUDIT PRIOR TO DEMOLITION WORKS. M. EXISTING INSTALLATIONS ABOVE EXISTING LAY-IN (ACOUSTIC) CEILINGS ARE CONSIDERED VISIBLE, ABLE TO BE SEEN, EXISTING CONDITIONS AND FULL ACCESS WILL BE GRANTED TO BIDDERS FOR THOROUGH INSPECTION AT THE MANDATORY SITE VISIT AND OTHER TIMES PRIOR TO BID. SCHEDULE ADDITIONAL VISITS IN WRITING WITH THE OWNER. NO EXTRAS WILL BE GRANTED FOR TRADE FAILURE TO IDENTIFY EXISTING CONDITIONS, OR COORDINATE WITH OTHER DRAWINGS AND TRADES, WHICH AFFECTS PROPER INSTALLATION, MODIFICATION TO EXISTING SYSTEMS, OR SUBSEQUENT REWORK. O. PROVIDE FIRESTOPPING AROUND LEVEL 1 FLOOR PENETRATIONS AROUND NEW PLUMBING WHERE THE PIPING PASSES THROUGH THE EXISTING FLOOR TO MATCH EXISTING FIRE RATING. **DRAWING NOTES** (1) INSTALL HOLLOW METAL DOOR AND FRAME. TO MATCH EXISTING COLOUR. INSTALL NEW BARRIER FREE LAVATORY. REFER TO MECHANICAL INSTALL PORCELAIN FLOOR TILE AND BASE. NEW CONCRETE RAMP AND STAIRS TO BE FINISHED WITH PORCELAIN TILE. REFER TO STRUCTURAL INFILL EXISTING OPENING WITH CONCRETE BLOCK. PATCH AND PAINT. INSTALL SHEET VINYL FLOOR C/W TRANSITION INTO CORRIDOR AND CLOSET 107A.

- PATCH TERRAZO FLOORING BASE TO MATCH EXISTING AS REQUIRED BY FLOOR DEMOLITION.
- RESERVED
- RESERVED
- TACTILE WALKING SURFACE INDICATOR.
- TO CONCRETE CURB, 12mm DIAMETER STAINLESS PICKETS @100mm o.c. MAX
- (12)38mm STAINLESS PIPE HANDRAIL
- SAWCUT CONTROL JOINT IN CONCRETE RAMP AND CURB. REFER TO MECHANICAL.
- PDO AND PUSH TO LOCK, REFER TO ELECTRICAL. (16)
- PATCH AND MAKE GOOD TO ALL SURFACES INCLUDING MILLWORK WALL PANELING AS REQUIRED BY ELECTRICAL SCOPE OF WORK, REFER TO ELECTRICAL.
- (18) 25 CONCRETE CHAMFER - TYPICAL.
- (19) REFER TO STRUCTURAL FOR CONCRETE FINISHING FOR CURB.
- NEW RECESSED ELECTRICAL PANEL, REFER TO ELECTRICAL
- GALVANIZED SERVICE STAIR

FINISH LEGEND

11 11			
VAL	L & CEILING	<u>FLO</u>	OR:
PT1	PAINT	PTF1	PORCELAIN FLOOR TILE
712	PAINT	SV1	SHEET VINYL
TW1	PORCELAIN WALL TILE	TRZ1	TERRAZZO FLOOR TILE
ASI	<u>E:</u>	FX	EXISTING FLOORING
ТВ1	PORCELAIN TILE BASE		TO REMAIN
RB1	TERRAZZO BASE		
RB1	RUBBER BASE		
¥-	TRANSITION STRIP		
RE	NCHING LEGEND		
1.	ALL TRENCHING DIMENS		RE APPROXIMATE, GC TO S YPICAL.
	/:	AS RE	ROXIMATE EXTENT TO SAW QUIRED FOR MECHANICAL, SHOWN HATCHED.
	ADJACENT EXISTING FLO	OR FIN	CRETE INFILL OF TRENCHIN IISH. PATCH AND MAKE GO FLOOR FINISH - REFER TO D
<u></u>			

EXTENT OF REMOVAL



DOOR NUMBER

EXISTING DOOR(S) EXISTING DOOR(S) TO BE DEMOLISHED.

NEW DOOR. TO REMAIN.

FLOOR DRAIN, REFER TO MECH.

CLEAN OUT DRAIN, REFER TO MECH.

STAINLESS STEEL GUARD. 38mm STAINLESS PIPE TOP AND BOTTOM RAIL, 38mm STAINLESS PIPE POSTS SECURED

INSTALL NEW BARRIER FREE WATER CLOSET, FLUSHING CONTROLS TO BE OPERABLE FROM THE TRANSFER SIDE.

HAND DRYER, REFER TO ELECTRICAL. REFER TO TYPICAL DETAILS FOR HEIGHT REQUIREMENTS AND CLEARANCES.

WALL ASSEMBLIES

W-X EXISTING WALL ASSEMBLY TO REMAIN. W-1 92mm METAL STUDS @ 400mm O.C

16mm CEMENT BOARD

W-2 190mm CONCRETE BLOCK

ROOM LEGEND.

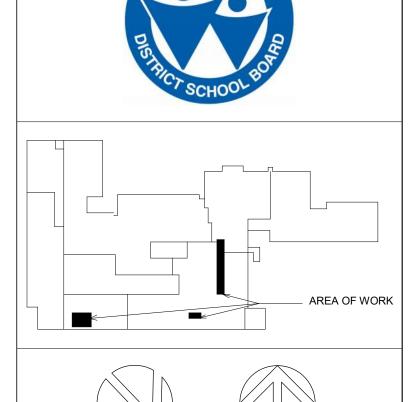
01	WASHROOM 1
02	WASHROOM 2
03	CORRIDOR
04	MAIN OFFICE STORAGE
)4A	STORAGE ROOM
05	BOYS' CHANGE ROOM
07	SCIENCE CLASSROOM
)7A	STORAGE
08	CORRIDOR
64	GYMNASIUM

XIMATE, GC TO SITE VERIFY TRENCHING REQUIRED TO MINIMIZE

EXTENT TO SAWCUT AND REMOVE PORTION OF CONCRETE FLOOR SLAB. DR MECHANICAL, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ATCHED.

ILL OF TRENCHING (APPROX. 190 mm THICK), FINISH FLUSH WITH H AND MAKE GOOD WITH EXISTING ADJACENT SURFACE AND PREPARE SH - REFER TO DETAIL C206/S002 FOR SLAB-ON-GRADE REPAIR DETAIL

HATCHED AREA DENOTES APPROXIMATE EXTENT OF REMOVAL OF TERRAZZO FLOORING AND CONCRETE SLAB. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR DEMOLITION SCOPE. CONTRACTOR TO SITE VERIFY THE



PROJECT NORTH

DATE

2024-03-13

2024-05-13

TRUE NORTH

1 ISSUED FOR BID & PERMIT

2 RE-ISSUED FOR PERMIT

ISSUANCE

CLIENT LOGO

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

51 ARDELT AVE, KITCHENER, ON N2C 2R5

PROJECT

PRESTON HIGH PS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

SCALE :

DATE :

PROJECT NO :

CHECKED BY :

DRAWN BY :

ENLARGED FLOOR PLANS, DETAILS





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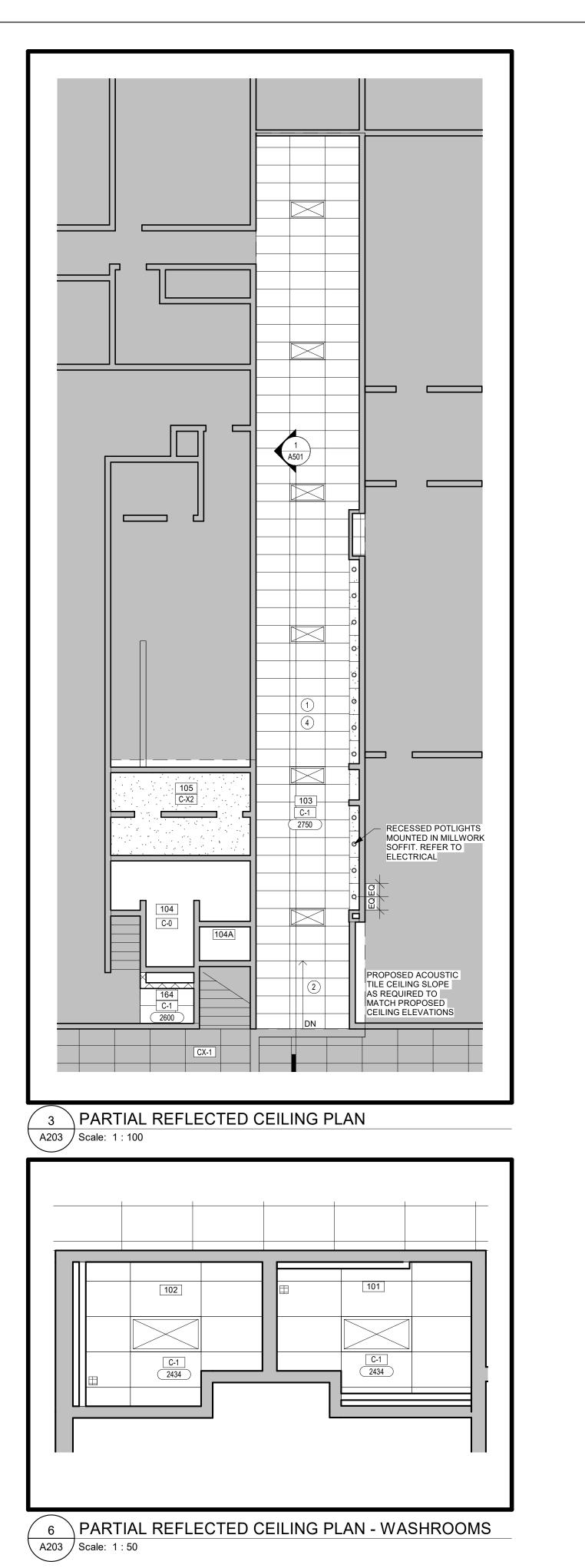
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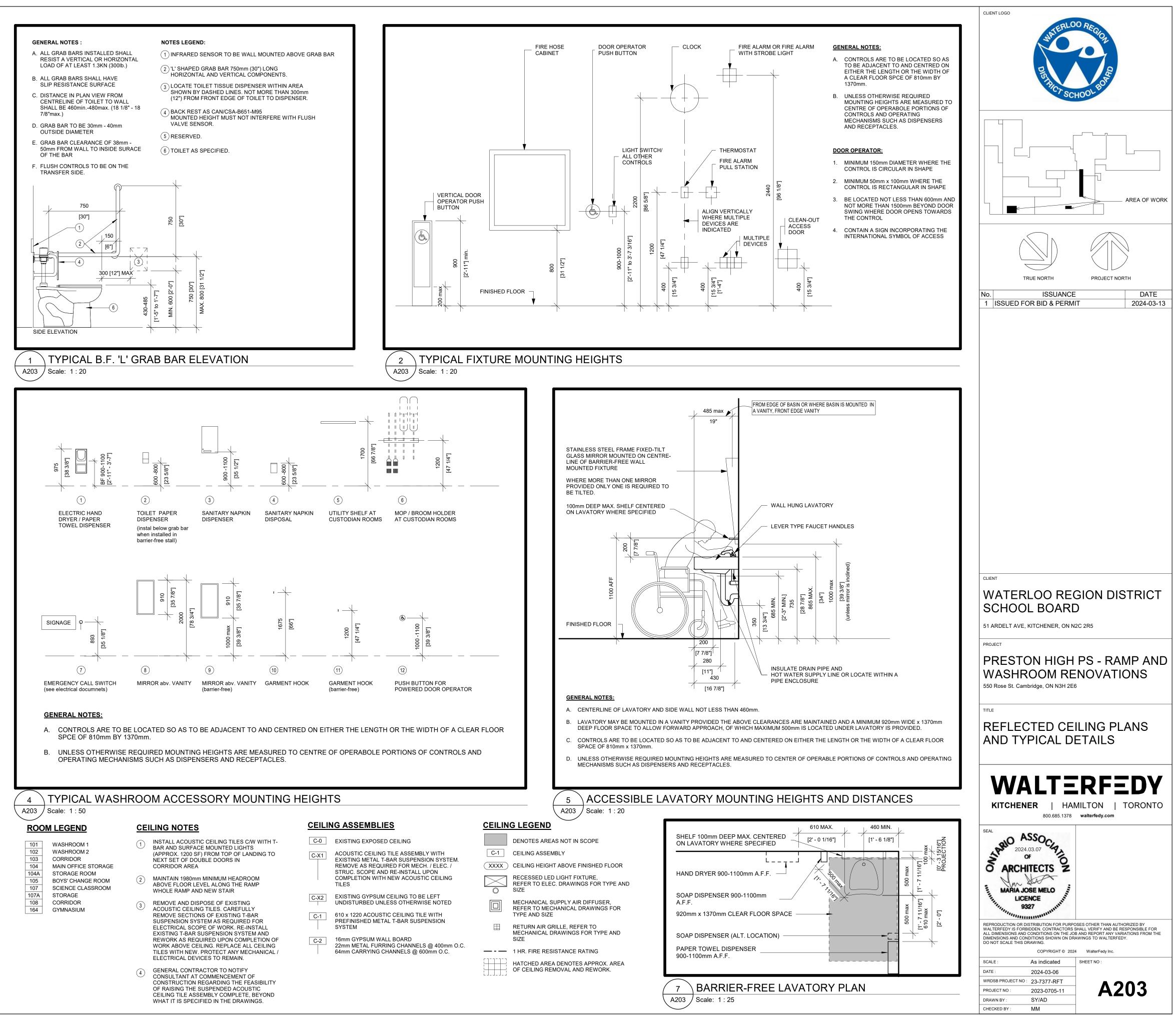
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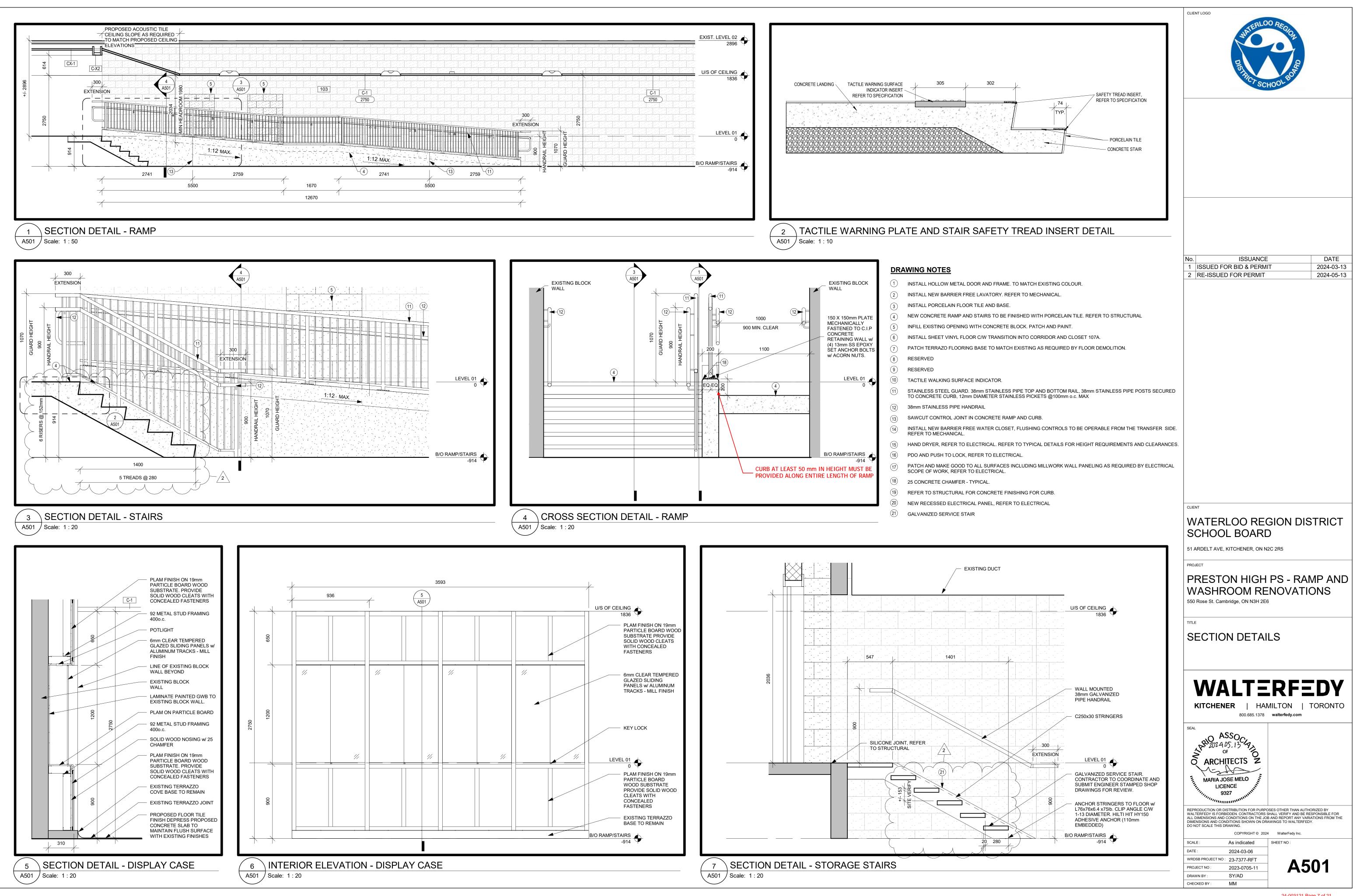
WRDSB PROJECT NO: 23-7377-RFT







²⁴⁻⁰⁰³¹²¹ Page 6 of 21



24-003121 Page 7 of 21

- A. GENERAL
- 1. 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.
- 3. VERIFY ALL STRUCTURAL DIMENSIONS WITH THE CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 4. THE MOST STRINGENT REQUIREMENT GOVERNS WHERE DISCREPANCIES OCCUR WITHIN THE CONTRACT DOCUMENTS, INCLUDING APPLICABLE CODES, STANDARDS AND ACTS.
- 5. 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.
- 7. DO NOT CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT PERMISSION FROM THE CONSULTANT, UNLESS NOTED ON THE DRAWINGS.
- 8. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY, TEMPORARY WORKS AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- 9. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS SHOWN ON THE DRAWINGS. 10. 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 11. 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.
- **B. EXISTING CONDITIONS**
- 1 EXISTING STRUCTURE AND DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED TO CONVEY DESIGN INTENTIONLY. THE DESIGN IS BASED ON THE INFORMATION CONTAINED IN THE RECORD DRAWINGS FOR THE EXISTING BUILDINGS, AND ON LIMITED SITE OBSERVATIONS VERIEVEXISTING 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.
- C. STRUCTURAL MASONRY
- 1. PERFORM WORK IN ACCORDANCE WITH CSA A371.
- LINTELS 2.1. PROVIDE LINTELS OVER ALL OPENINGS THROUGH MASONRY WALLS SHOWN ON THE ARCHITECTURAL DRAWINGS, AND AS REQUIRED FOR MECHANICAL AND ELECTRICAL TRADES 2.2. PROVIDE STEEL LINTELS UNLESS NOTED OTHERWISE.
- 2.3. REFER TO THE STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS TABLE FOR LINTEL REQUIREMENTS FOR ALL NON-LOAD BEARING WALLS, UNLESS NOTED OTHERWISE
- 2.4. REFER TO THE STRUCTURAL DRAWINGS FOR LOAD BEARING MASONRY WALLS FOR LINTEL REQUIREMENTS FOR ALL LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.
- D. DEMOLITION
- 1. 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
- 3. 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.
- 5. SCAN CONCRETE FOR EMBEDDED CONDUIT OR SERVICES PRIOR TO DEMOLITION/SAW-
- CUTTING 6. WHEN PERFORMING SLAB-ON-GRADE AND STAIR REMOVALS, CONTRACTOR SHALL TAKE CARE NOT TO UNDERMINE ADJACENT EXISTING BLOCK WALLS AND SLAB-ON-GRADE. PROVIDE TEMPORARY SHORING AS REQUIRED.
- 7. REPORT ALL DISCREPANCIES TO THE ENGINEER FOR CONFIRMATION/CLARIFICATION PRIOR TO COMMENCEMENT OF ANY DEMOLITION SCOPE.
- 8. ALL DEMOLITION DEBRIS TO BE DISPOSED OF OFF SITE. 9. DEMOLITION CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR AND MAKE GOOD ALL

DAMAGE TO ADJACENT FINISHED SURFACES AND ASSEMBLIES.

- E. MATERIALS
- 1 STRUCTURAL CONCRETE 1.1. CONCRETE: CONFORMING TO CSA A23.1 AND PER THE CONCRETE DESIGN PROPERTIES
- TABI F 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).
- 2. STRUCTURAL STEEL: 2.1. CHANNELS AND ANGLES 2.2. PLATES, RODS AND BARS
- 2.3. STRUCTURAL BOLTS 2.4. NUTS AND WASHERS 2.5. WELDING ELECTRODES
- CSA-G40.20/G40.21, GRADE 350W CSA-G40.20/G40.21, GRADE 300W ASTM A325/A325M ASTM A563/A563M AND ASTM F436/436M F49XX
- 3. STRUCTURAL MASONRY 3.1. CONCRETE MASONRY UNITS: CONFORMING TO CSA 165, 15 MPa MINIMUM COMPRESSIVE
- STRENGTH AT 28 DAYS 3.2. MASONRY GROUT: CONFORMING TO CSA 179, 15 MPa MINIMUM COMPRESSIVE STRENGTH
- AT 28 DAYS, 10mm (3/8") MAXIMUM AGGREGATE SIZE, 250 mm (10") SLUMP. 3.3. MORTAR: CONFORMING TO CSA 179, TYPE S FOR LOAD BEARING WALLS, TYPE N OTHERWISE
- 3.4. MASONRY TIES: CONFORMING TO CSA A370. 3.5. REINFORCING BARS: CONFORMING TO CSA G30.18, GRADE 400R (OR 400W WHERE
- WELDING IS REQUIRED). ALL REINFORCING TO BE BLACK STEEL UNLESS NOTED. 3.6. BED JOINT REINFORCING: LADDER TYPE, SIDE RODS CONFORMING TO ASTM A82, HOT-
- DIPPED GALVANIZED UNLESS NOTED, TYPE BL BY BLOK-LOK OR APPROVED ALTERNATE. 4. NON-SHRINK GROUT: NON-METALLIC, 35 MPa MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
- F. FOUNDATIONS AND EARTHWORKS
- 1. 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. MATCH EXISTING FOUNDING ELEVATIONS WHERE NEW FOOTINGS ARE CONSTRUCTED ADJACENT TO EXISTING FOUNDATIONS, UNLESS NOTED OTHERWISE.
- CONSTRUCT FOOTINGS ON UNDISTURBED NATIVE SOIL. WITH A MINIMUM BEARING CAPACITY OF 75 kPa SLS AND 100 kPa ULS. BEARING SURFACES SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE PLACING FOUNDATION CONCRETE. 4. 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 (2'-0").
- 5. KEEP EXCAVATIONS FREE OF WATER.
- 6. PROTECT EXISTING ADJACENT STRUCTURES AND SUBGRADE FROM DAMAGE OR DISTURBANCE DURING CONSTRUCTION. PROVIDE UNDERPINNING OR TEMPORARY SHORING WHERE NECESSARY TO PERFORM THE WORK.
- 7. 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.
- 8. EARTH-FORMED FOUNDATIONS ARE NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE CONSULTANT IN WRITING. PROVIDE MINIMUM 75 (3") COVER TO REINFORCING FOR EARTH FORMED SURFACES.
- 9. STOCKPILE EXCAVATED MATERIAL ON-SITE AS DIRECTED, AND REMOVE AND DISPOSE OF ALL MATERIAL THAT IS CONTAMINATED, UNSUITABLE FOR RE-USE, OR IN EXCESS OF THE WORK.

- G. GENERAL REVIEW
- WALTERFEDY WILL PERFORM PERIODIC FIELD REVIEWS OF A REPRESENTATIVE S THE WORK TO CONFIRM THAT THE WORK FOR WHICH WE ARE RESPONSIBLE IS IN CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- GENERAL REVIEW OF WORK DESIGNED BY OTHER PROFESSIONAL ENGINEERS (S SHOP DRAWINGS) IS TO BE PERFORMED BY THE ENGINEER RESPONSIBLE FOR TH SUBMIT FIELD REVIEW REPORTS TO THE CONSULTANT.
- COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS R FOR THE SAFE PERFORMANCE OF THEIR WORK.
- PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPL PRIOR TO CONCEALING OR ATTACHING TO THE WORK.
- 5. FIELD REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY F ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WITH THE CONTRACT DC H. SUBMITTALS
- SUBMIT THE FOLLOWING ERECTION AND FABRICATION SHOP DRAWINGS TO THE C FOR REVIEW PRIOR TO FABRICATION: 1.1. CONCRETE REINFORCING BARS 1.2. CONCRETE MIX DESIGN
- 1.3. ALL TESTING AND FIELD REPORTS PREFORMED BY OTHERS 2. SHOP DRAWINGS WILL BE REVIEWED SOLELY TO ASCERTAIN GENERAL CONFORM
- THE DESIGN CONCEPT. THE CONSULTANT'S REVIEW DOES NOT RELIEVE THE CON RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWING OR RESPO FOR MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- TESTING AND INSPECTION
- AN INDEPENDENT TESTING AND INSPECTION COMPANY WILL BE RETAINED ON BE OWNER TO PERFORM QUALITY ASSURANCE VERIFICATION OF THE WORK. COORD TESTING AND INSPECTION OF THE WORK, AND ENSURE COPIES OF ALL INSPECTIO ARE DISTRIBUTED TO THE CONSULTANT AND OWNER IN A TIMELY MANNER.
- 2. COOPERATE WITH CONSULTANTS AND INDEPENDENT INSPECTION AND TESTING / RETAINED TO PERFORM FIELD REVIEW. PROVIDE ACCESS AND ASSISTANCE AS R 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 CONST SCHEDULE PRIOR TO STARTING THE WORK, PERIODIC PROGRESS UPDATES, AND A HOURS NOTICE FOR SITE VISITS FOR THE FOLLOWING WORK: 3.1. PLACEMENT OF INSULATION AND REBAR PRIOR TO PLACING CONCRETE.
- 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
- 5. PROVIDE REASONABLE NOTICE FOR FIELD REVIEWS AND INSPECTIONS OF COMPL PRIOR TO CONCEALING OR ATTACHING TO THE WORK.
- FIELD REVIEW, TESTING AND INSPECTION DOES NOT RELIEVE THE CONTRACTOR RESPONSIBILITY FOR ACCURACY, QUALITY AND CONFORMANCE OF THE WORK WI CONTRACT DOCUMENTS.
- J. STRUCTURAL MASONRY
- 1. PERFORM WORK IN ACCORDANCE WITH CSA A371.

1500 (5'-0") IF NO CLEANOUTS ARE PROVIDED.

- 2. REFER TO THE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING MASONRY NOT SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE MINIMUM REINFORCING IN NON-LOAD BEARING MASONRY WALLS PER SCHEDULES ON THE STRUCTURA THESE WALLS AND LINTELS ARE NOT DETAILED ON THE STRUCTURAL DRAWING
- PROVIDE CONTROL JOINTS PER THE SPECIFICATION, AND IS INDICATED ON THE ARCHITECTURAL DRAWINGS. MAXIMUM SPACING OF CONTROL JOINTS TO BE 76 UNLESS NOTED OTHERWISE.
- 4. FILL MASONRY UNITS WITH GROUT AS FOLLOWS: 4.1. ALL CELLS CONTAINING REINFORCING. 4.2. ALL CELLS CONTAINING DOWELS, ANCHORS, OR OTHER STRUCTURAL CONN 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
- 6. PLACE GROUT IN MAXIMUM 3000 (10'-0") LIFTS. THE MAXIMUM LIFT HEIGHT IS REI
- 7. TERMINATE GROUT PLACEMENT 25 (1") BELOW TOP OF UPPER UNIT FOR HORIZO CONSTRUCTION JOINTS IN GROUTED BLOCK CELLS. HORIZONTAL CONSTRUCTION REQUIRED WHERE GROUT PLACEMENT IS INTERRUPTED FOR A DURATION OF G HOUR
- 8. BUILD MASONRY TIGHTLY INTO WEBS OF STEEL BEAMS BEARING ON WALLS, WE COLUMNS AND AROUND JOIST SHOES, UNLESS NOTED OTHERWISE.
- 9. ENSURE THAT EMBEDDED ITEMS DO NOT AFFECT THE STRUCTURAL INTEGRITY MASONRY WALL OR IMPACT PLACEMENT OF REINFORCING.
- 10. PROVIDE TEMPORARY BRACING TO MAINTAIN STABILITY OF WALLS UNTIL HORIZ SUPPORTING ELEMENTS ARE IN-PLACE.
- 11. BEARING SUPPORTS: PROVIDE MINIMUM 200 (8") DEEP SOLID OR GROUT-FILLED MASONRY UN 11.1. MASONRY, CONCRETE AND STEEL LINTELS AT BEARING LOCATIONS, PR LEAST 150 (6") BEYOND EDGE OF BEARING PLATES.
- 12. NON-LOAD BEARING WALLS: PROVIDE THE MINIMUM REINFORCING SHOWN IN THE NON-LOAD BEARIN 12.1. WALL REINFORCING TABLE. 12.2. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE DRAWINGS AND DETAILS.
- 13. MASONRY REINFORCING: 13.1. PROVIDE MASONRY REINFORCING WHERE INDICATED ON THE DRAWINGS, TYPICAL DETAILS AND SPECIFICATIONS.
- PROVIDE REINFORCING BAR EMBEDMENT AND LAP SPLICES IN ACCORDANCE WITH 13.2. CSA, AND NOT LESS THAN THE VALUES IN THE MASONRY REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS TABLE.
- 13.3. ALL TENSION LAP SPLICES ARE CLASS B UNLESS NOTED OTHERWISE. LAP BED JOINT REINFORCING MINIMUM 300 (12"). 13.4. PROVIDE 1-15M VERTICAL BAR EACH SIDE OF CONTROL JOINTS, FULL HEIGHT. 13.5.
- 13.6. KEEP CELLS CONTAINING REINFORCING FREE FROM MORTAR DROPPINGS. 14. LINTELS:
- 14.1. PROVIDE LINTELS OVER ALL OPENINGS THROUGH MASONRY WALLS SHOWN ON THE ARCHITECTURAL DRAWINGS, AND AS REQUIRED FOR MECHANICAL AND ELECTRICAL TRADES 14.2. PROVIDE STEEL LINTELS UNLESS NOTED OTHERWISE. REFER TO
- ARCHITECTURAL DRAWINGS. 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.
- 15. BOND BEAMS
- 15.1. PROVIDE BOND BEAMS IN ALL WALLS PER THE BOND BEAMS IN CONCRETE MASONRY UNIT WALLS TABLE, AND WHERE INDICATED ON THE STRUCTURAL DRAWINGS. 15.2. EXTEND BOND BEAMS 200 (8") BEYOND OPENINGS WHERE NOT CONTINUOUS, UNLESS NOTED OTHERWISE.

l	K.	STRUCTURAL CONCRETE				L. STRU	JCTURAL STEEL					
E SAMPLE OF	1.	PERFORM WORK IN ACCORDANCE WITH C	SA A23.1 AND	CSA A23.3.			ORM WORK IN AC	CCORDANCE WITH CSA-S16 AND THE CIS	C CODE OF STANDA	RD		
		DO NOT LOAD CONCRETE ELEMENTS UNTI SUPPLY AND PLACEMENT:	L DESIGN STR	ENGTH HAS BEEN REACHED).	2. CONN	NECTIONS ARE SI	HOWN ON THE STRUCTURAL DRAWINGS ⁻ EARING TYPE WITH A MINIMUM OF 2-19 (3/				
THAT DESIGN. G AGENCIES S REQUIRED		3.1. CONCRETE IS SPECIFIED UNDER THE RESPONSIBILITIES OF THE CONTRACT CSA A23.1 TABLE 5. THE CONTRACTOF THE CONCRETE MIX PROPERTIES TO M HARDENED CONCRETE, CONSIDERING	OR AND CONC SHALL WORK MEET PERFOR	RETE SUPPLIER, ARE AS DE WITH THE SUPPLIER TO ES MANCE CRITERIA FOR PLAS	TABLISH TIC AND	3. DESIG	ERWISE. GN CONNECTION	S FOR FORCES INDICATED ON THE STRU	CTURAL DRAWINGS	WHERE		
IPLETED WORK,		AND PLACEMENT AND THE SPECIFIED 3.2. PROTECT CONCRETE FROM FREEZING COLD AND HOT WEATHER CONCRETE	AND HOT WE	ATHER IN ACCORDANCE WI	TH THE	FORC 3.1. F	CES: FACTORED SHEAF	R FORCE OF 50% OF THE TOTAL UNIFORM ALLY SUPPORTED BEAMS LISTED IN THE	ILY DISTRIBUTED FA	CTORED	I	
Y FOR		3.3. PLACE CONCRETE IN A MANNER TO M PLACEMENT.	INIMIZE SEGRI	EGATION AND VIBRATE AFTE	R	C	CISC HANDBOOK	OF STEEL CONSTRUCTION FOR END CON -COMPOSITE BEAMS.				
		REFER TO TYPICAL DETAILS FOR DETAILIN REINFORCING:	IG OF REINFOR	RCING, JOINTS AND DIMENSI	ONS.		/IDE 50 (2") NON-8 ERWISE.	SHRINK, NON-METALLIC GROUT UNDER B/	ASE PLATES UNLES	S NOTED		
E CONSULTANT		 5.1. DETAIL AND PLACE REINFORCING STEE THE REINFORCING STEEL INSTITUTE OF 5.2. PROVIDE REINFORCING BAR EMBEDM A23.3, AND NOT LESS THAN THE VALUE 	OF CANADA MA	NUAL OF STANDARD PRACT	TICE. VITH CSA	OTHE	ER ELEMENTS NO	TURAL DRAWINGS FOR STAIRS, LADDERS IT DETAILED ON THE STRUCTURAL DRAW CTION FOR STRUCTURAL STEEL IN ACCO	INGS.	orms, a	ND	
		AND LAP SPLICE LENGTHS TABLE. 5.3. PROVIDE LAP SPLICES FOR WELDED V SPACING MIN	VIRE REINFOR IMUM LAP	CEMENT AS FOLLOWS:		ARCH	HITECTURAL REQ	UIREMENTS. PROVIDE COMPATIBLE COA TEEL MEMBERS TO FIRE-SPRAYED OR CO	TINGS OR SURFACE	SCENT P/	AINT.	
RMANCE WITH		100x100 (4x4)	(10") 350 (14")					INSTALLED SNUG-TIGHT, AS DEFINED IN				
PONSIBILITY		150x150 (6x6) 5.4. ALL TENSION LAP SPLICES ARE CLASS 5.5. PROVIDE DOWELS OF SAME SIZE AND FOUNDATIONS, UNLESS NOTED OTHER 5.6. DOWEL EMBEDMENT SHALL BE THE G 600 (2'-0"), UNLESS NOTED OTHERWISE HAVE STANDARD HOOKS AND EXTEND UNLESS NOTED OTHERWISE.	SPACING WHI RWISE. REATER OF A E. DOWELS FO	ERE REINFORCING IS SPLICE STRAIGHT TENSION EMBEDN DR FOOTINGS AND PILE CAPS	MENT OR S SHALL	8. GRIN	D SMOOTH ALL W	VELDS AND FLAME-CUT EDGES EXPOSED	TO VIEW.			
BEHALF OF THE RDINATE TION REPORTS		5.7. DETAIL REINFORCING IDENTIFIED AS (TYPICAL CORNER BARS AT CORNERS TERMINATE WITH STANDARD HOOKS.										
G AGENCIES S REQUIRED		 5.8. REINFORCING LENGTHS, QUANTITIES, ARE MINIMUM REQUIREMENTS, UNLES 5.9. FABRICATE AND INSTALL REINFORCIN ACCORDANCE WITH MANUFACTURER' 	S NOTED OTH G USED WITH S REQUIREME	ERWISE. COUPLERS AND END ANCHO NTS.	DRS IN					ти	M TENSION	
STRUCTION		5.10.TIE AND SECURE ALL REINFORCING IN WITH MAXIMUM SPACING 1200 (48") BE SPECIFIED COVER AND MAINTAIN POS SIDE CHAIRS IN ALL VERTICAL ELEMEN	TWEEN SUPP	ORT POINTS, IN ORDER ACH	IEVE				BAR SIZE	25	MPa	3
ND AT LEAST 48		5.11.REINFORCING STEEL SHALL BE FREE GREASE, AND OTHER DELETERIOUS M 5.12.DO NOT FIELD-BEND OR FIELD-CUT RE	OF ALL DIRT, F IATERIALS PRI	OR TO PLACING CONCRETE.	•				TOP BARS			
f	6	DRAWINGS OR APPROVED BY THE CO CONSTRUCTION AND CONTROL JOINTS:							10M		00mm (16")	;
		 6.1. JOINT LOCATIONS SHALL BE REVIEWE UNLESS SHOWN ON THE STRUCTU 6.2. HORIZONTAL JOINTS ARE ONLY PERM WHERE SHOWN. 	JRAL DRAWIN	GS.	/ALLS				15M		00mm (24")	
IPLETED WORK,		 6.3. LOCATE VERTICAL JOINTS AT MID-SPA 6.4. LOCATE VERTICAL JOINTS WITHIN ON WALLS NOT SUPPORTED ON STRIP FO 	E-THIRD SPAN		N				20M		00mm (32")	
R OF THEIR WITH THE		6.5. PROVIDE VERTICAL CONTROL JOINTS (100'-0") ON CENTER MAXIMUM AND AS ALIGN WITH MASONRY CONTROL	IN FOUNDATIO	HE DRAWINGS AND TYPICAL	DETAILS.				25M	(00mm (48")	1
		DRAWINGS. 6.6. PROVIDE CONTROL JOINTS IN SLABS-(SPACED AT 3750 (12'-0") ON CENTE							30M		50mm (58")	1
;	7.	TYPICAL DETAILS. OPENINGS, SLEEVES AND EMBEDDED CON							35M		75mm (67")	1
RY PARTITIONS		7.1. FORM SLEEVE OPENINGS IN WALLS AN POURING CONCRETE. DO NOT CUT OF ENGINEER'S APPROVAL.							BOTTOM BA	RS		
RAL DRAWINGS. NGS.		7.2. VERTICAL OR HORIZONTAL SLEEVES A UNLESS SHOWN ON THE STRUCTURAL CONSULTANT.							10M		00mm (12")	
HE 7650 (25'-0")		7.3. OPENINGS ARE NOT PERMITTED IN CO PANELS), EXCEPT PER THE TYPICAL D DRAWINGS OR REVIEWED AND AF	ETAILS, UNLE	SS SHOWN ON THE STRUCT					15M		50mm (18")	
	8.	COVER: 8.1. PROVIDE MINIMUM CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND CS		CING AS PER THE MINIMUM					20M		00mm (24")	
NNECTORS.		8.2 PROVIDE CONCRETE COVER TO REINF GREATEST APPLICABLE VALUE AS LIS COVER TABLE].							25M		50mm (38")	1
NT OF GROUT.		A. CONCRETE CAST AGAINST AND PERM. B. CONCRETE CAST IN FORMS (NOT EXP		(-					30M		00mm (44")	1
REDUCED TO		a. SLAB TOP BARS b. SLAB BOTTOM BARS c. PIERS AND COLUMNS, TO TIES		25mm(25mm(40mm(1	1"́)				35M		00mm (52")	1
IZONTAL CTION JOINTS ARE GREATER THAN 1		d. WALLS (EXPOSED TO FIRE BOTH S e. WALLS f. MISCELLANEOUS INTERIOR CONC	RETE NOT LIS	(l")́ 1-1/2")				NOTES:			
		g. MISCELLANEOUS INTERIOR CONC REPAIR ANY DEFECTS IN HARDENED CONC CONSULTANT'S APPROVAL OF FINISHED R	CRETE USING	APPROVED METHODS, AND (OBTAIN				2. TABUL STRUC	CONCRE ATED VAI	ETE IS CA LUES API OW DEN	AS PL SI
TY OF THE											LUES AP ESS THA	
RIZONTAL				NON-LOAD	BEARING M	ASONR	Y WALL RE	INFORCING				
									ELEME	NT		I
UNITS BELOW PROJECTING AT			WALL THICKNESS		VERTICAL REINF.				FOOTINGS			-
			90	INTERIOR PARTITION	N/A 1-10M		N/A 500	BLOK-LOK BL-10 X-HEAVY @ 400 BLOK-LOK BL-10 X-HEAVY @ 400	PIERS AND F	OUNDAT	ION	
RING MASONRY			140	INTERIOR PARTITION	1-10M		200	BLOK-LOK BL-10 X-REAVY @ 400	SLAB-ON-GR	ADE		
ND TYPICAL			NOTES: 1. PROVIDI	E REINFORCING FOR CONCR		LLS AS PEI	R THE SCHEDULE	E UNLESS NOTED OTHERWISE.	MISCELLANE	OUS COI	NCRETE	

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.

TABLE M4: MASONRY REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS						
BAR SIZE	VERTICAL REINFO	DRCEMENT	HORIZONTAL REINFO	RCEMENT		
	TENSION EMBEDMENT TENSION LAP		TENSION EMBEDMENT	TENSION LAP		

10M	575mm (23")	750mm (30")	750mm (30")	950mm (38")
15M	800mm (32")	1050mm (42")	1050mm (42")	1350mm (54")
20M	975mm (39")	1275mm (51")	1275mm (51")	1650mm (66")
25M	1575mm (63")	2050mm (82")	2050mm (82")	2650mm (106")

BAR DIAMETER NOT TO EXCEED 25M PER CSA S304-14

TABLE M2: BOND BEAMS IN CONCRETE MASONRY UNIT

	WALL	S	
WALL TYPE	LOCATION	HEIGHT	REINFORCING (PER COURSE)
ALL	BELOW ALL OPENINGS	1 COURSE	1-10M
	ABOVE ALL PIPES GREATER THAN 100 (4") DIAMETER THROUGH WALL	1 COURSE	1-10M
NOTES: 1. REFER T	O STRUCTURAL MASONRY GENERAL NOTES.		

CLIENT LOGO



CONCRETE REINFORCING EMBEDMENT AND LAP SPLICE LENGTHS MINIMUM MINIMUM MINIMUM MINIMUM TENSION LAP COMPRESSION COMPRESSION TENSION EMBEDMENT SPLICE EMBEDMENT LAP SPLICE 30MPa 30MPa 35MPa 35MPa 25MPa 375mm 350mm 500mm 450mm 350mm 250mm 550mm (15") (14") (10") (22") (20") (18") (14") 550mm 525mm 775mm 700mm 500mm 350mm 650mm (22") (31") (28") (20") (21") (14") (26") 750mm 700mm 400mm 1025mm 925mm 850mm 600mm (30") (28") (16") (41") (37") (34") (24") 1100mm 1025mm 500mr 1550mm 1425mm 1325mm 750mm (44") (41") (20") (62") (57") (53") (30") 1450mm 1225mm 1850mm 1700mm 1600mm 1150mm 900mm 600mm (49") (46") (24") (78") (68") (64") (36") 2150mm | 2000mm | 1850mm 1050mm 1550mm 1325mm 700mm (62") (53") (80") (78") (28") (86") (42") 300mm 300mm 400mm 400mm 250mm 400mm 400mm (12") (16") (16") (16") (12") (10") (16") 400mm 400mm 350mm 600mm 600mm 600mm 450mm (16") (16") (14") (24") (24") (24") (18") 550mm 500mm 400mm 800mm 800mm 800mm 600mm (22") (20") (32") (32") (32") (24") (16") 850mm 800mm 1200mm 1100mm 1000mm 750mm (34") (32") (48") (44") (40") (20") (30") 1000mm 1450mm 1300mm 1200mm 950mm 600mm 900mm (40") (38") (24") (58") (52") (48") (36")

1300mm 1200mm

(48")

1100mm

(44")

NOTES

NOTES

/IDE "TOP BAR" SPLICES AND EMBEDMENTS FOR HORIZONTAL BARS WHERE MORE THAN 300mm (12") OF SH CONCRETE IS CAST BELOW THE SPLICE LATED VALUES APPLY TO UNCOATED BARS IN NORMAL DENSITY CONCRETE. FOR COATED BARS AND CTURAL LOW DENSITY CONCRETE, APPLY FACTORS AS PER CSA A23.3 LATED VALUES APPLY TO REINFORCING BARS WITH CLEAR COVER GREATER THAN 1.0db AND CLEAR CING NOT LESS THAN 1.4dbIN BEAMS OR COLUMNS, OR 2.0db IN SLABS.

CONCRETE DESIGN PROPERTIES

750mm

(30")

				-		
	LOCATION	COMPRESSIVE STRENGTH (MPa)	EXPOSURE CLASS	CHLORIDE EXPOSURE	FREEZE/ THAW EXPOSURE	REMARKS
		30	N	NO	NO	
	INTERIOR	30	Ν	NO	NO	
	INTERIOR	25	N-CF	NO	NO	NO SUPPLEMENTARY CEMENTING MATERIEALS
Ξ	INTERIOR	25	Ν	NO	NO	

1650mm

(66")

1500mm

(60")

1400mm

(56")

1050mm

(42")

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. SEE SPECIFICATION 03 30 00 FOR ADDITIONAL CONCRETE REQUIREMENTS. ALL CONCRETE MIXES TO BE PROPORTIONED AS NORMAL DENSITY CONCRETE, UNLESS NOTED OTHERWISE. NOMINAL AGGREGATE SIZE IS 20mm (3/4") UNLESS NOTED OTHERWISE.

STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS

LINTEL TYPE WALL THK. MAXIMUM	90 VENEER	140mm	190mm	240mm	290mm
OPENING SIZE					
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

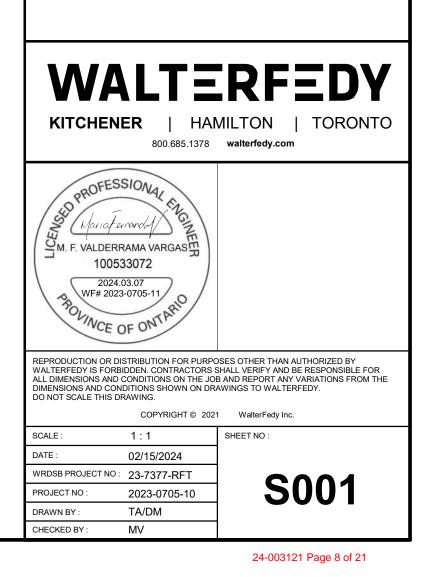
ALL ANGLE LINTELS TO HAVE THE LONG LEG VERTICAL (LLV) UNLESS NOTED OTHERWISE LINTELS TO HAVE A MINIMUM OF 150mm (6") OF BEARING ON EACH SIDE OF THE OPENING. LINTELS TO BEAR ON GROUT FILLED OR SOLID CONCRETE BLOCK. PROVIDE SHIMS AS REQUIRED FOR LEVELING. BACK TO BACK ANGLES SHALL BE WELDED USING 6mmx50mm LONG WELDS AT 450mm ON CENTER ALONG THE TOES AND 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

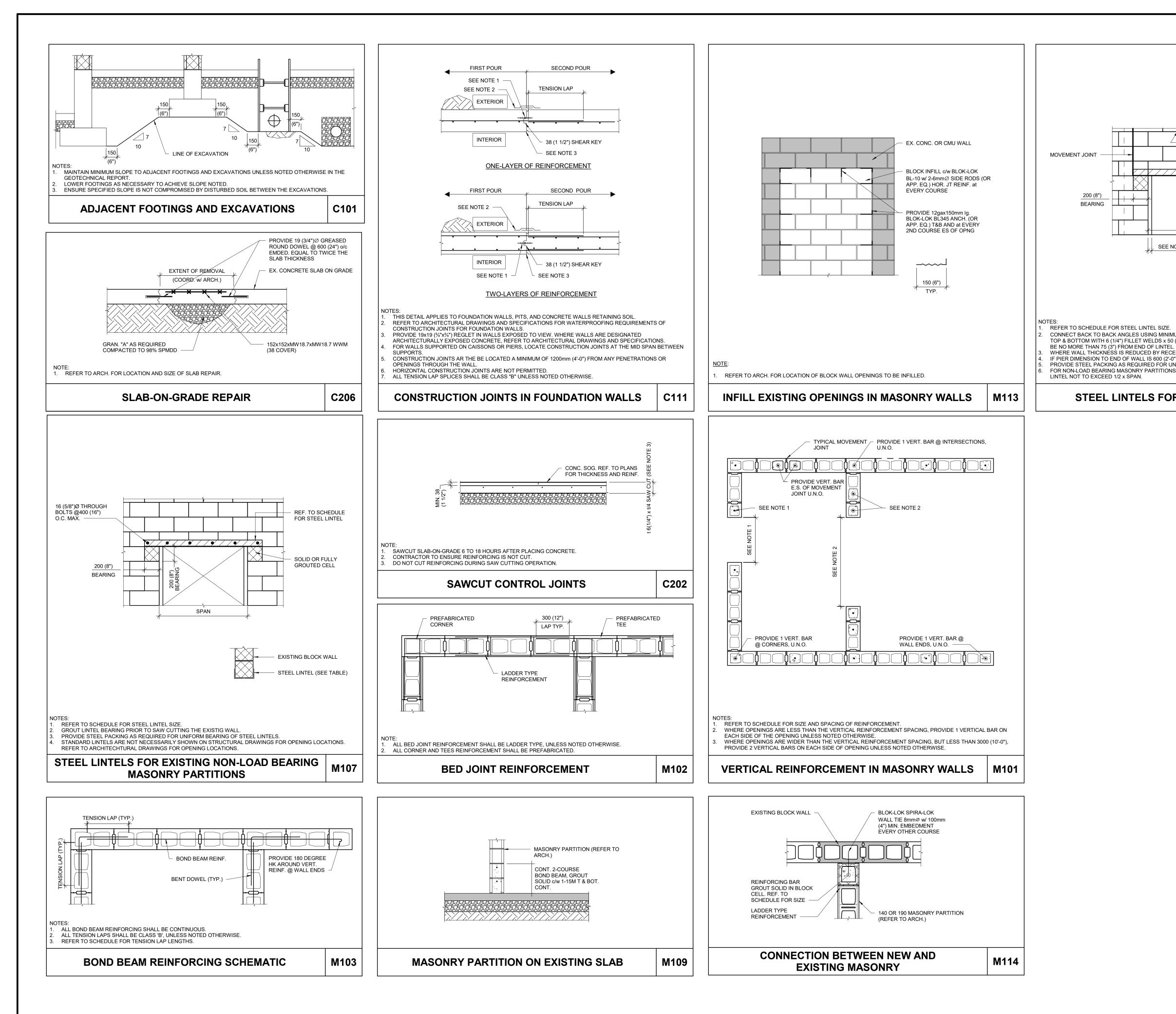
No.	ISSUANCE	DATE
1	ISSUED FOR 90% OWNER REVIEW	2024.02.26
2	ISSUED FOR BID AND PERMIT	2024.03.13

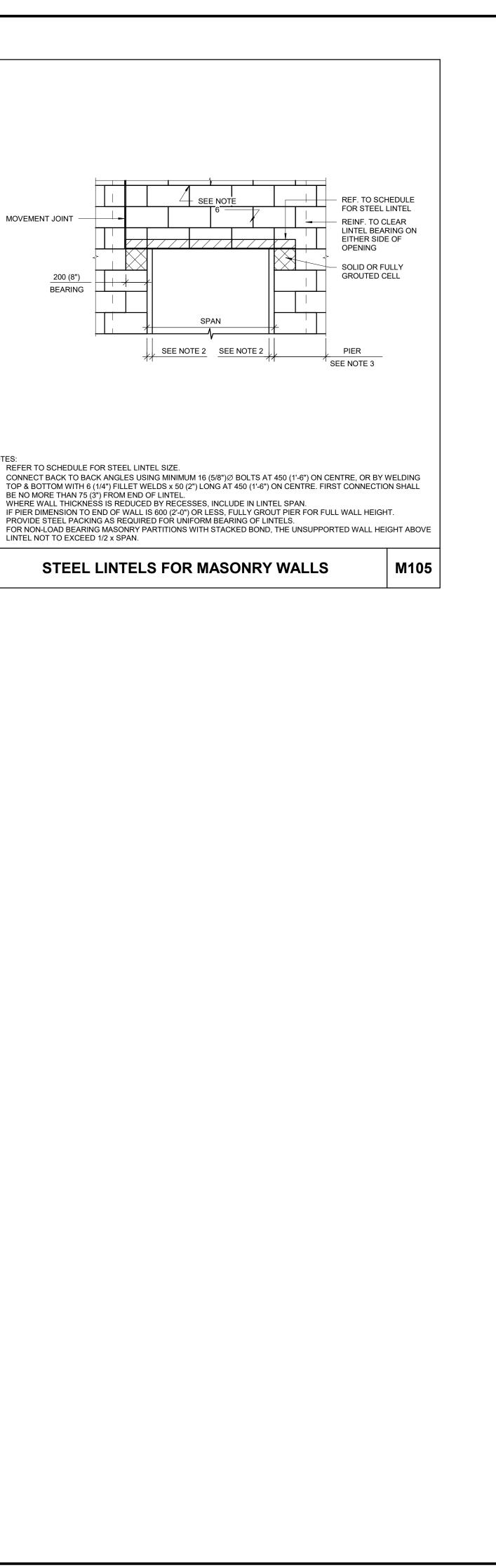
WATERLOO REGION DISTRICT SCHOOL BOARD

PRESTON HIGH PS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

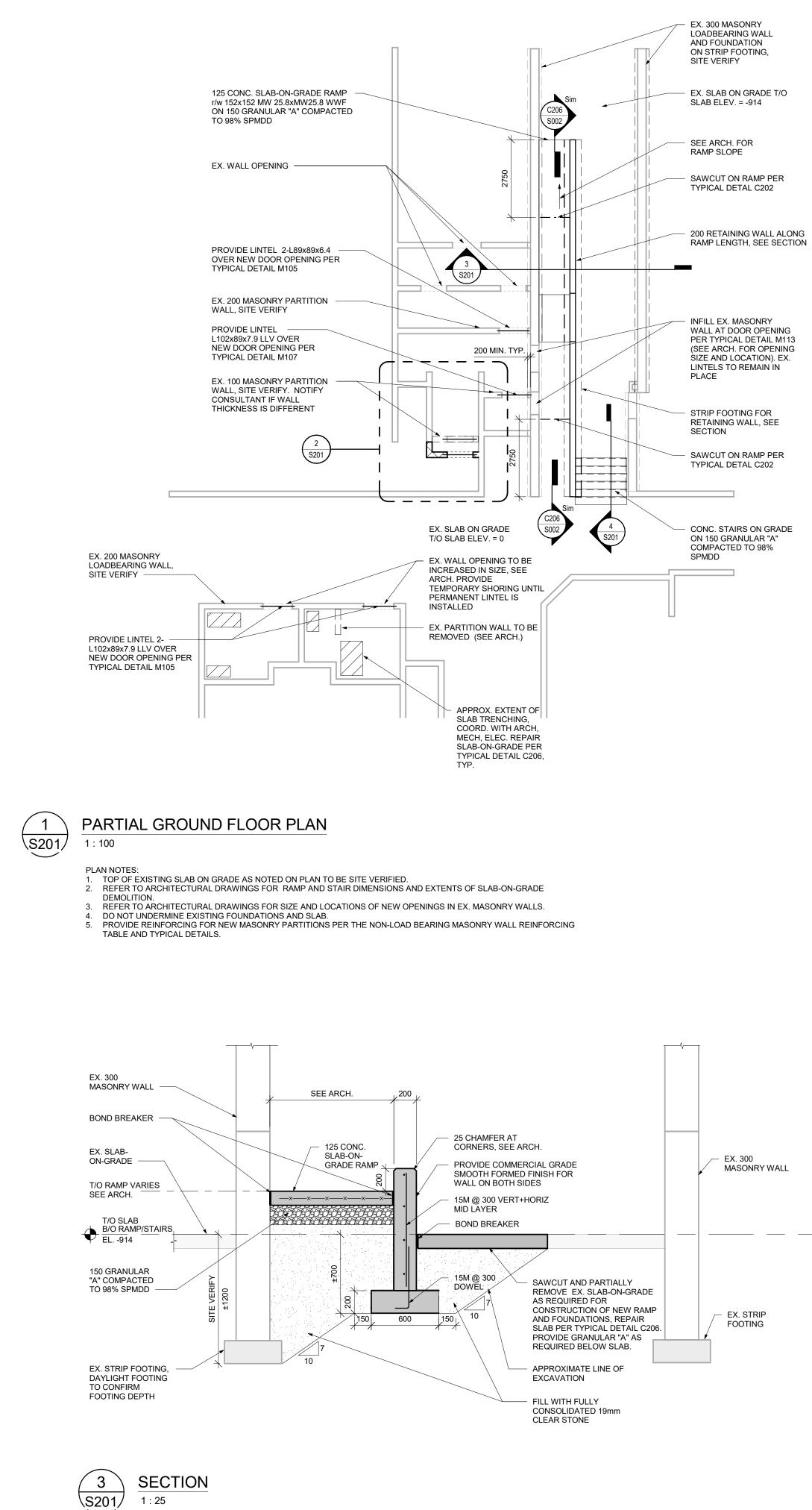
GENERAL NOTES AND TABLES







CLIENT LOGO	
No. ISSUANCE DATE	
IND. ISSUANCE DATE 1 ISSUED FOR 90% OWNER REVIEW 2024.02.26 2 ISSUED FOR BID AND PERMIT 2024.03.13	
CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD	
PROJECT PRESTON HIGH PS - RAMP ANE WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6)
TYPICAL DETAILS	
KITCHENER HAMILTON TORONTO 800.685.1378 walterfedy.com	
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WRDSB PROJECT NO: 23-7377-RFT PROJECT NO: 2023-0705-10 DRAWN BY: Author CHECKED BY: Checker	



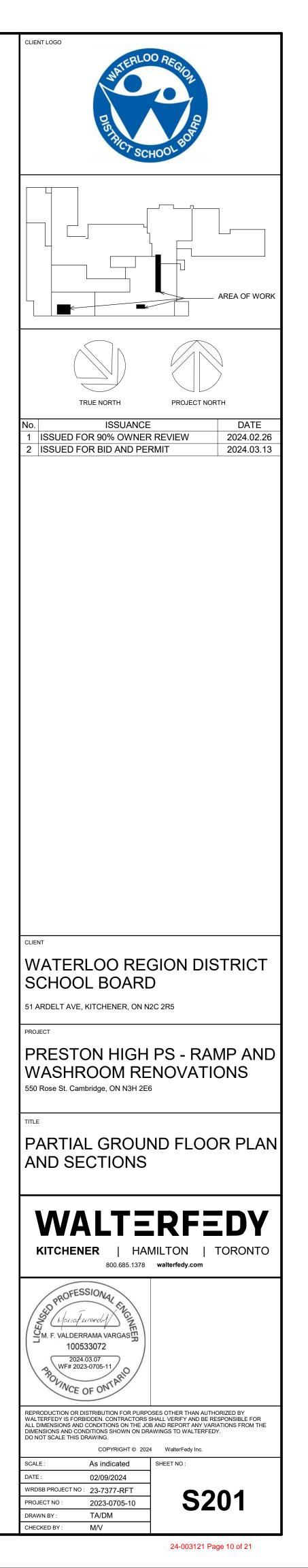
EX. 200 MASONRY WALL, SITE VERIFY PROVIDE LINTELL127x89x7.9 LLV OVER STEEL STAIR, NEW WALL OPENING. PROVIDE REFER TO ARCH. L178x102x9.5 LLV SHELF ANGLE w/ 2-12 DIA. HAS-E THREADED RODS c/w HILTI HIT-HY 270 w/ 100 MIN. EMBED. INTO EX. MASONRY WALL FOR SUPPORT OF LINTEL EACH END EXPOSED JOINT BETWEEN FOUNDATION WALL AND SOG TO BE SEALED PER THE SPECIFICATIONS FULLY GROUT TWO END COURSES OF EX. MASONRY WALL FOR FULL HEIGHT OF NEW PARTITION WALL FULLY GROUT ONE COURSE OF EX. MASONRY WALL FOR FULL HEIGHT OF NEW NEW MASONRY PARTITIONS CONNECTED PARTITION WALL TO EX. MASONRY WALLS PER TYPICAL DETAIL M114 AND DOWELS AS SHOWN. NEW PARTITIONS EXTEND TO CEILING AND CONNECT TO EX. MASONRY WALLS FOR LATERAL SUPPORT. PROVIDE INTERLOCKING MASONRY COURSES FULLY GROUTED AT CORNER OF NEW PARTITION WALLS. - DOWEL INTO EX. DO NOT ADD JOINT AT CORNER. MASONRY WALL WITH 1-15M x600 lg. c/w HILTI HIT-HY 270 w/ MIN. 150 PROVIDE LINTEL 2-L89x89x6.4 EMBED INTO EX. MASONRY WALL AT 400 o/c MAX., (2 LOCATIONS). 15M x350 lg. AT DOOR OVER NEW DOOR OPENING PER TYPICAL DETAIL M105. OPENING.

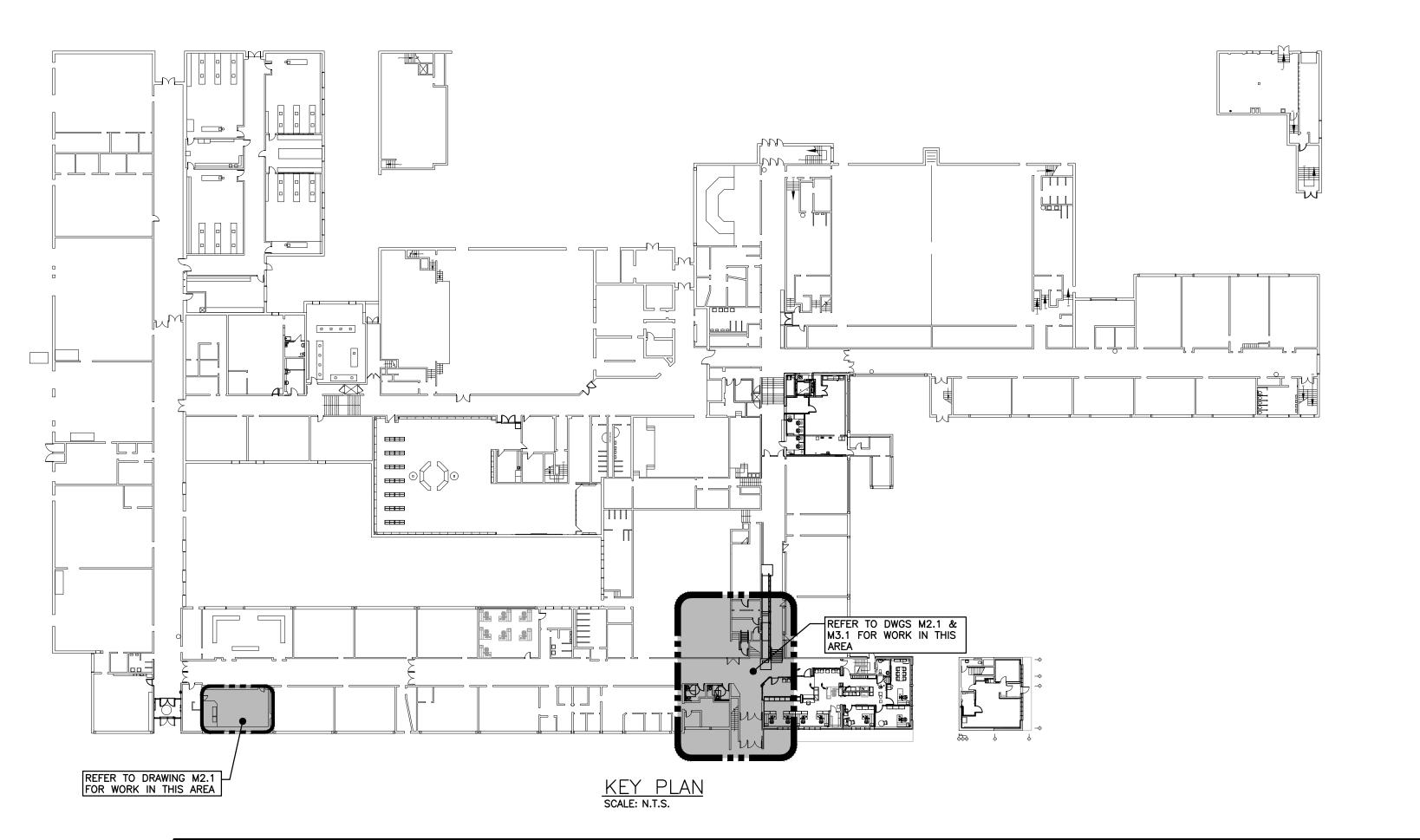


ENLARGED PLAN 1:50

PROVIDE DOWEL INTO EX. SLAB PER TYPICAL DETAIL C206 -300 REFER TO ARCH. FOR STAIR TREAD AND RISER 94949494949494949 AND CAST-IN NOSINGS EX. SLAB-ON-GRADE, SITE VERIFY -PROVIDE DOWEL INTO 10M @ 300 BEW EX. SLAB PER TYPICAL DETAIL C206 T/O SLAB B/O RAMP/STAIRS EL. -914 150 GRANULAR "A" COMPACTED EX. SLAB-ON-GRADE, SAWCUT , 300 TO 98% SPMDD AND PARTIALLY REMOVE AS REQUIRED FOR CONSTRUCTION OF NEW STAIR, REPAIR SLAB PER TYPICAL DETAIL C206, TYP.

SECTION 1:25 $\begin{pmatrix} 4 \\ \$201 \end{pmatrix}$





	Tuno	Connection Siz	es		Fixture		Trim		Accessories
em	Туре	HW CW TW Drain	Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
C-1	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH (HANDS-FREE)	25 80		AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 ZURN	RIM. TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET,	DELTA 81T201-WMSHWA MOEN COMMERCIAL SLOAN	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABL TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS. HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH (NON-ADJUSTABLE).	SEAT: CENTOCO AM500STS BEMIS	SEAT: BLACK, ELONGATED, OPEN FRONT LESS COVER, MOL SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. REFER TO ARCHITECTURAL DOCUMENTS FOR VERTICAL BACKREST. MIN. 1000 MAP PERFORMANCE.
-1	B.F. WALL HUNG LAV (HANDS—FREE)	15 15 32		AMERICAN STANDARD MURRO 0954.004EC KOHLER BRENHAM K-1997 ZURN	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 521 MM X 464 MM (21 7/8" X 17 3/4").	DELTA 591T0230 MOEN COMMERCIAL SLOAN	HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRA WATER PROOF INFRA-RED SENSOR AND CONNECTOR. ADJUSTABLE SENSING RANGE 76MM TO 381MM (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH. VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5GPM (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER. MECHANICAL MIXING VALVE (SET TO 105°F) IN RECESSED CONTROL BOX #591		WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OF GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER PROVIDE SHROUD/KNEE CONTACT GUARD THERMOSTATIC MIXING VALVE UNDER LAV. DELTA R3070-MI POWERS LM490 OR EQUAL.
D—1	FLOOR DRAIN	NOTEI		ZURN ZN415B MIFAB F1100-C WATTS FD-100-C-A SMITH	GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER				
RI	LLE SCHEDUL	E Manufacturer	&	Finish	Remarks			<u>GENERAL</u> NO	DTES BE READ IN CONJUNCTION WITH THE PREPARED

ltem	Туре	Manufacturer & Model	Finish	
R1	CEILING RETURN/EXHAUST	KRUEGER S580	BRITISH WHITE	ALUMINUM, C/W SCREWED

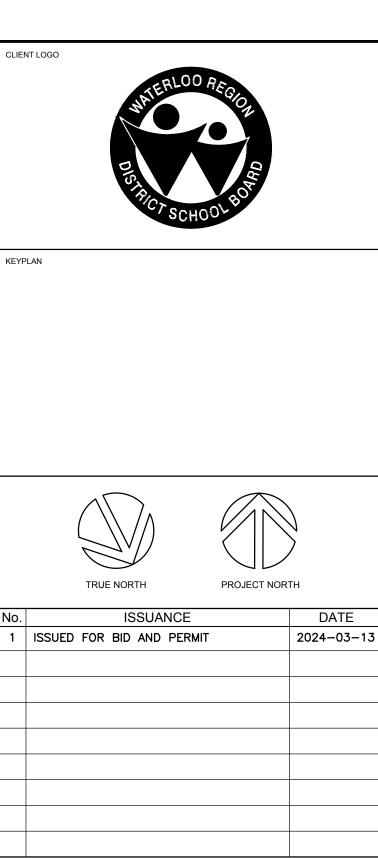
<u>MECHA</u>	NICAL L
ltem	Desc
	CUT EXISTING NEW PIPING
	FLOW DIRECTI
	DOMESTIC CO PIPING
<u> </u>	DOMESTIC HO
	DOMESTIC HO RECIRC. PIPIN
EX-SAN-	EXISTING SANI ABOVE FLOOR
— — EX—SAN—	EXISTING SANI BELOW FLOOR
— — SAN — —	SANITARY PIPI FLOOR
 SAN 	SANITARY PIPI FLOOR
-EX-STM	EXISTING STOP ABOVE FLOOR
-EX-STM	EXISTING STOP BELOW FLOOR
	SPRINKLER PI
FD	FIRE DAMPER
- •••• FSD	COMBINATION DAMPER
- \\\\-0 SD	SMOKE DAMPE
\mathbf{O}^{O}	THERMOSTAT WITHOUT GUAI
O D	CARBON DIOXID (WITH OR WITH
BD	BALANCING DA
RIC	RETURN IN C
AFF	ABOVE FINISH
AFR	ABOVE FINISH
CTE	CONNECT TO

		<u>general no</u>
Remarks		ALL DRAWINGS ARE TO SPECIFICATION.
FASTENING, 1/2" BLADE SPACING, FIXED DEFLECTION		 UPON COMPLETION OF PHASE OF THE PROJEC CERTIFICATES BEFORE C – POTABLE WATER TES – NFPA–13 SPRINKLE – FIRE PROTECTION E
	,	ALL CERTIFICATES ARE

LEGEND scription Description ltem & CONNECT TION OLD WATER 70-P---OT WATER PIPING TRAP PRIMER T WATER TEE CONNECTION NITARY PIPING **c**— PIPE DOWN NITARY PIPING PIPE UP **o**— PING ABOVE -OCO FLOOR CLEANOUT PING BELOW ORM PIPING -N------ CHECK VALVE ORM PIPING -1I---PIPING - STRAINER DRAIN (SCHEMATICS) SCREWED OR WELDED PIPE CAP I FIRE/SMOKE ____ PER **4**C-----RISER VALVE (WITH OR - BALANCING VALVE IDE (CO2) SENSOR TEMPERATURE CONTROL HOUT GUARD) VALVE TCV DAMPER - BALL VALVE <u>−|0|</u> CABINET --- OBD OPPOSED BLADE DAMPER ____AD HED FLOOR ACCESS DOOR DIFFUSER/GRILLE SIZE (imp), Type Size Cap. HED ROOF TYPE & CAPACITY (cfm) EXISTING Size 1 Size 2 Capacity HYDRONIC HEATING SIZE, TYPE & CAPACITY EXISTING DUCT (SIZE AS INDICATED) ------ RIGID ROUND DUCT

CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT: TEST (SEE SPEC 22 11 16 PART 3) LER CONTRACTOR'S MATERIAL & TEST CERTIFICATE ENGINEER'S INSPECTION/CONFORMANCE LETTER

TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.



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. © 2024 DEI Consulting Engineers Inc.



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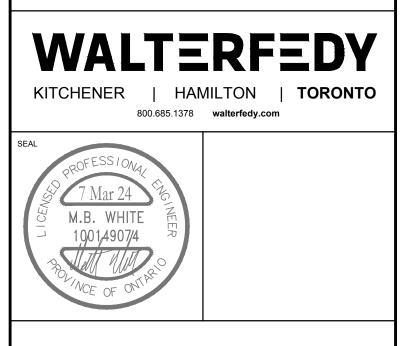
WATERLOO REGION DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT

PRESTON HS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

KEY PLAN, LEGEND & SCHEDULES

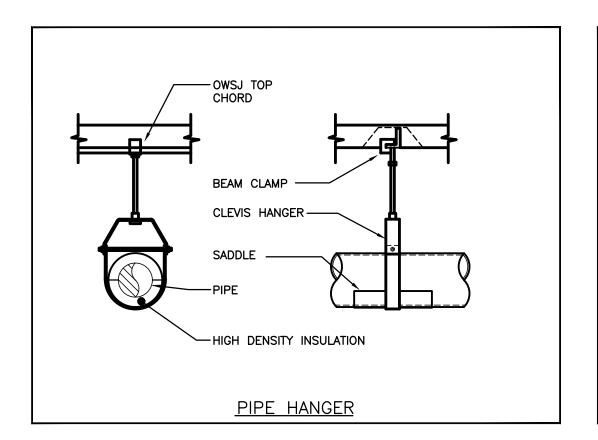


As indicated SCALE : 2024-01-30 PROJECT NO : 2023-0705-11 RAWN BY : AP CHECKED BY : SO

24-003121 Page 11 of 21

M1.1

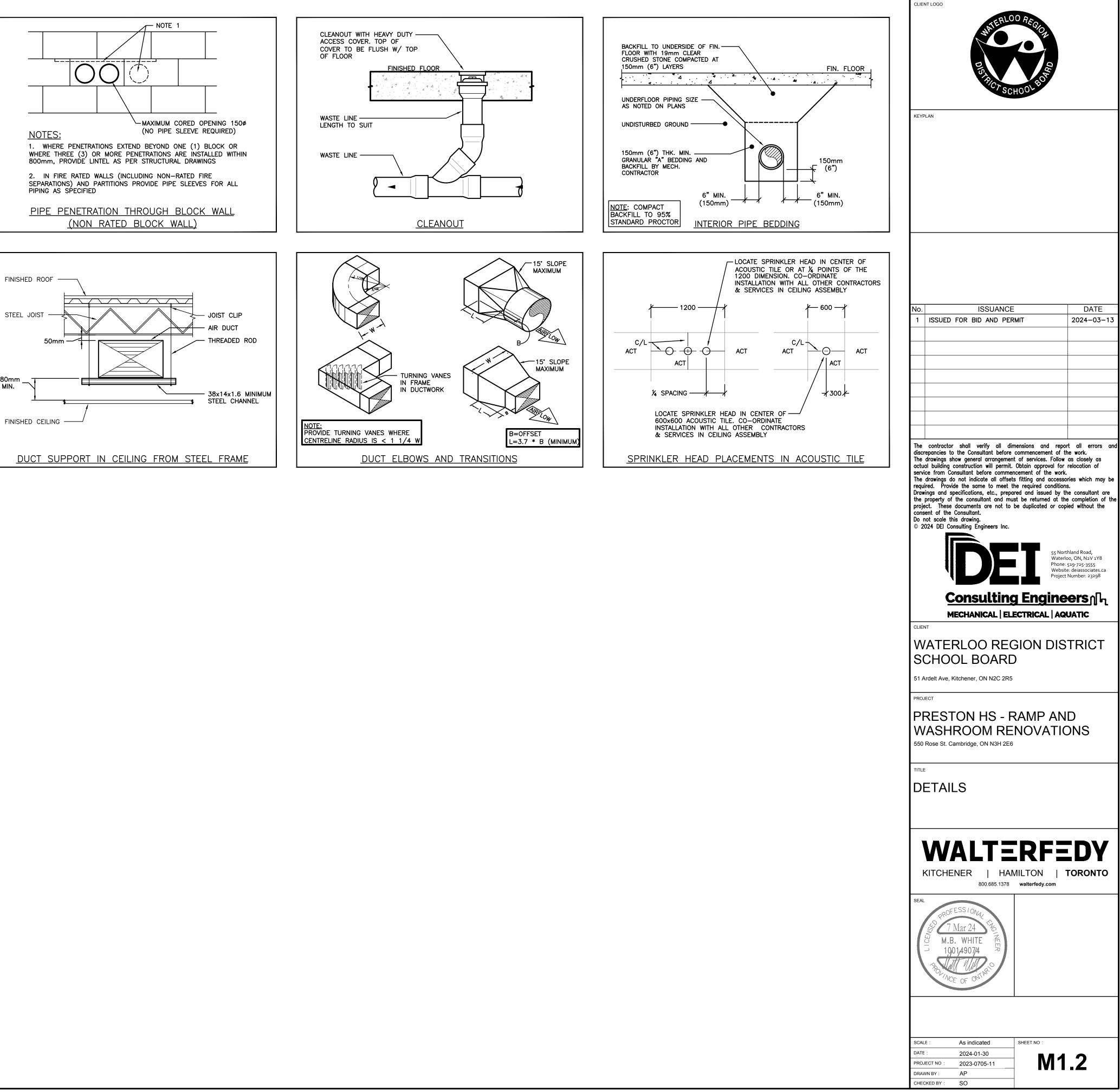
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24-003121 Page 12 of 21

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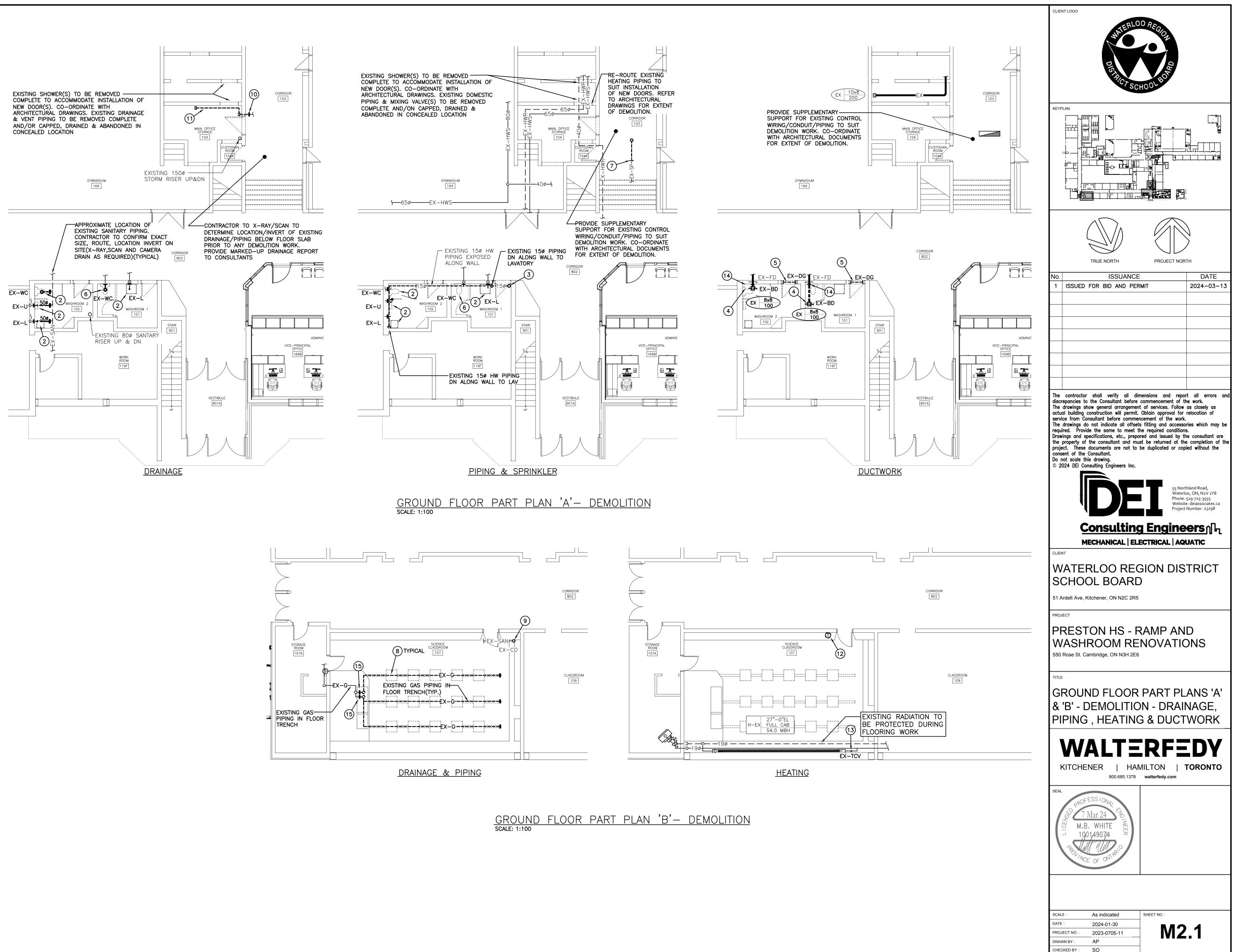
2024-03-13

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

- EXISTING DOMESTIC PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
- EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING DOMESTIC/SANITARY/VENTING TO BE CUT & CAPPED IN WALL/BELOW FLOOR AND REMOVED BEYOND COMPLETE.
- EXISTING DOMESTIC PIPING TO BE CUT ON RISER AND REMOVE BEYOND COMPLETE.
- 4. EXISTING GRILLE TO BE REMOVED COMPLETE.
- EXISTING DOOR GRILLE TO BE REMOVED COMPLETE.
- EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY/DOMESTIC/VENTING PIPING TO BE CUT AND REMOVED BEYOND COMPLETE. PREPARE PIPING FOR RE-CONNECTION TO NEW.
- EXISTING SPRINKLER PIPING TO BE CUT AND RE-ROUTED TO AVOID EXISTING DUCT BRANCH. MAINTAIN MAXIMUM HEIGHT TO ACCOMMODATE NEW RAMP HEADROOM. RELOCATE EXISTING SPRINKLER HEAD TO SUIT.
- EXISTING GAS PIPING AT DESK TO BE REMOVED COMPLETE. CAP IN CONCEALED LOCATION/REMOVE BACK TO SOURCE (TYPICAL ALL STUDENT/TEACHER STATIONS).
- 9. EXISTING CLEANOUT/COVER TO BE TEMPORARILY REMOVED TO ACCOMMODATE NEW FLOORING. RE-INSTALL SAME AFTER FLOORING WORK.
- 10. EXISTING DOMESTIC PIPING TO BE CUT AND REMOVED BEYOND COMPLETE.
- 11. EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETE. EXISTING SANITARY/VENTING/DOMESTIC PIPING TO BE REMOVED COMPLETE AND/OR CAPPED IN CONCEALED LOCATION/BACK TO SOURCE TO ACCOMMODATE INSTALLATION OF NEW DOOR.
- 12. EXISTING THERMOSTAT TO BE REMOVED COMPLETE. EXISTING PNEUMATIC TUBING TO BE REMOVED BACK TO SOURCE. SOLDER/CRIMP IN CONCEALED LOCATIONS. PROVIDE NEW DDC THERMOSTAT & CONTROL WIRING. FISH EXISTING WALL AS REQUIRED.
- 13. EXISTING ISOLATION, BALANCING AND TEMPERATURE CONTROL VALVES TO BE REMOVED AND REPLACED WITH NEW.
- 14. EXISTING DUCTWORK TO BE CUT & REMOVED BEYOND COMPLETE.
- 15. EXISTING GAS PIPING SERVING STUDENT DESKS TO BE CAPPED AT RISER IN TEACHER'S DESK & REMOVED BEYOND COMPLETE. EXISTING LOCKING GAS VALVES & TEACHER'S DESK GAS TO REMAIN IN CURRENT CONDITION/OPERATION.

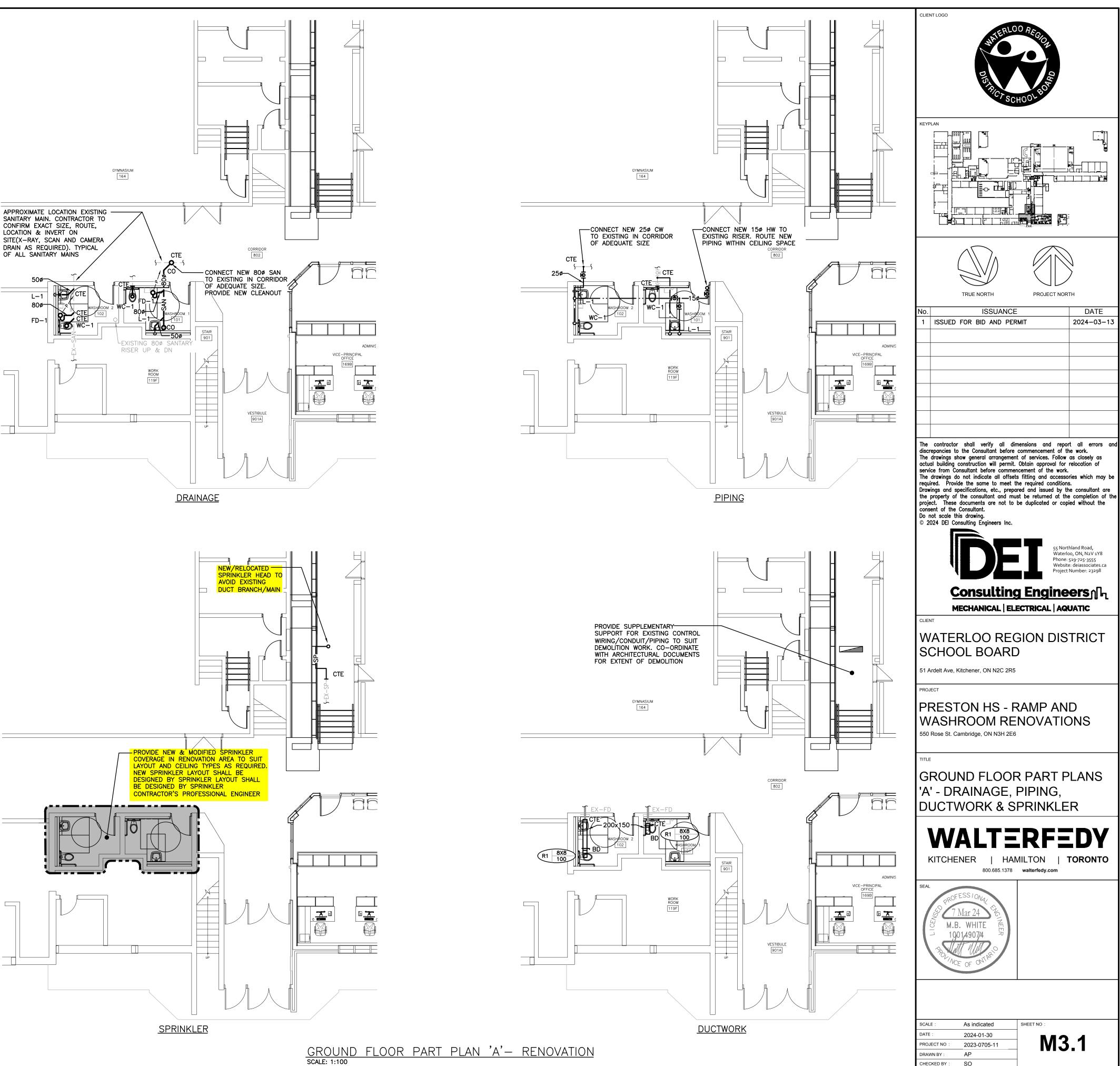


GENERAL RENOVATION NOTES

- 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

<u>GENERAL SPRINKLER NO</u>TES

- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
- ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1=100 SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
- SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
- •• PROVIDE UPRIGHT HEADS WITHIN 12" OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN GYM, AREAS WHERE HEADS ARE BELOW 8'-0" & STORAGE ROOMS. • PROVIDE CONCEALED PENDENT HEADS IN CEILINGS OF UNSUPERVISED
- AREAS (CORRIDORS, CHANGE ROOMS AND WASHROOMS). COVER PLATE FINISH SELECTED BY CONSULTANT. • PROVIDE CONCEALED HEADS IN ALL OTHER CEILING AREAS OF SUPERVISED AREAS (CLASSROOMS, OFFICES, SEMINAR ROOMS, etc.). COVER PLATE FINISH SELECTED BY CONSULTANT.
- SPRINKLER HEADS TO BE IN CENTRELINE OF CEILING TILE. MINIMUM 150mm (6") FROM EDGE.
- FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION
- COORDINATE LOCATION OF INSPECTOR'S TEST CONNECTION WITH CONSULTANT PRIOR TO INSTALLATION.
- PROVIDE SPRINKLER HEADS UNDER ALL DUCTWORK AND EQUIPMENT OVER 1200mm WIDE.
- COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEM. SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE
- ELECTRICAL CONTRACTOR, HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER PRICE
- •• CHECK/TEST: MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL, OPERATION OF ALL PUMPS &/OR COMPRESSORS. •• PERFORM ALL WORK IN ACCORDANCE WITH NFPA 13.
- RETURN SPRINKLER/STANDPIPE SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING



24-003121 Page 14 of 21

MECHANICAL SPECIFICATION PART A GENERAL NOTES THIS DIVISION'S RESPONSIBILITY TO VERIFY LOCATIONS, INVERT ELEVATIONS, ETC., IMMEDIATELY AFTER MOVING ON SITE. SHOULD FOR ANY REASON THE INFORMATION OBTAINED NECESSITATES CHANGES IN PROCEDURE OR DESIGN, ADVISE THE PROVIDE LABOUR, MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP CONSULTANT AT ONCE. IF VERIFICATION OF EXISTING CONDITIONS IS NOT DONE AT THE OUTSET AND ANY PROBLEMS ARISE, ACCEPTABLE TO OWNER AND CONSULTANT. THE RESPONSIBILITY FOR SAME IS ENTIRELY THIS DIVISION'S. 2. OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES, AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN 12. DISCONNECT AND/OR REMOVE EQUIPMENT PIPING, DUCTWORK, ETC. AS INDICATED. ALL NECESSARY APPROVALS, CERTIFICATES. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT. COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF FIRE UNDERWRITERS. THE CANADIAN GAS ASSOCIATION, THE LOCAL BUILDING 13. CAP AND CONCEAL ALL REDUNDANT AND OBSOLETE CONNECTIONS. CODE, AND ALL REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND BY-LAWS. POST BUILDING PERMIT AT SITE IN ACCORDANCE WITH O.B.C. REQUIREMENTS. FROM SITE WHICH THE OWNER DOES NOT RETAIN. VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER. EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND 15. MAINTAIN EQUIPMENT TO BE RETAINED BY OWNER ON SITE WHERE DIRECTED BY CONSULTANT. CONSULTANT 16. DEMOLITION OF ALL PARTS OF THE WORK MUST BE COMPLETED WITHIN THE CONFINES OF THE WORK AREA AND IN SUCH A WAY AS THE DUST PRODUCED AND RISK TO INJURY OF WILL NOT ADVERSELY AFFECT THE BUILDING USERS. . COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH ALL OTHER TRADES. ENSURE SYSTEMS ARE SERVICEABLE. 17. DEMOLISHED AREAS OF THE EXISTING BUILDING WILL REMAIN IN THEIR CURRENT USE IN SOME CASES. DEMOLITION IN THESE AREAS MUST BE KEPT TO THE MINIMUM REQUIRED TO COMPLETE THE WORK. 5. CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRED TO INSTALL THE SERVICE. 18. DEMOLITION SHALL TAKE PLACE WITHIN AREAS ISOLATED FROM ALL OTHER AREAS WITH APPROPRIATE HOARDING, 5. THE DRAWINGS ARE DIAGRAMMATIC. THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS SCAFFOLDING, NETTING, FENCING OR OTHER MEANS OF SECURITY BETWEEN BUILDING USERS AND THE WORK. LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS. 19. CO-ORDINATE MAKING SAFE ELECTRICAL DEVICES, CAPPING PLUMBING AND REMOVAL OF FIXTURES PRIOR TO PROVIDE TWO MARKED COPIES OF "AS-BUILT DRAWINGS" SHOWING THE SYSTEM AS INSTALLED. THE CAD DRAWINGS FILES COMMENCEMENT OF DEMOLITION. WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS. 20. ALL PIPING AND EQUIPMENT TO BE REMOVED AND/OR ABANDONED SHALL BE DRAINED PRIOR TO CAPPING AND/OR B. THE MECHANICAL SYSTEMS OF THIS BUILDING MUST ACHIEVE THE ENERGY EFFICIENCY LEVELS BY CONFORMING TO ABANDONING. DISPOSAL OF ALL LIQUIDS SHALL BE TO THE APPROVAL OF AUTHORITY OF HAVING JURISDICTION AND/OR ANSI/ASHRAE/IESNA 90.1 "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS" AND CHAPTER 2 PROVINCIAL REGULATIONS. OF DIVISION 3 OF SB-10 PRESCRIPTIVE METHOD FROM THE ONTARIO BUILDING CODE. 21. DRAIN ALL EXISTING PIPING AND DRAINAGE SYSTEMS INCLUDING ALL RELATED EQUIPMENT AS REQUIRED TO FACILITATE 9. ALL EQUIPMENT AND MATERIAL SHALL BE NEW. REPLACE ALL DAMAGED EQUIPMENT. SYSTEM RENOVATIONS. 10. MATERIAL AND EQUIPMENT ARE NAMED IN THE SPECIFICATION TO ESTABLISH AN ACCEPTABLE STANDARD OF MATERIALS AND 22. DISPOSAL OF EXISTING SYSTEM SHALL BE TO THE REQUIREMENTS OF THE LOCAL AND/OR PROVINCIAL REGULATIONS. THE QUALITY OF WORKMANSHIP BY WHICH TO ADHERE. 11. SUBMIT SHOP DRAWINGS ELECTRONICALLY FOR ALL EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT. RESUBMIT PART C PLUMBING NOTES AS OFTEN AS MAY BE FOUND NECESSARY. SUBMIT ONE COMPLETE SUBMISSION INDEXED AND LABELED FOR THIS PROJECT. 1. CONTRACTOR TO PROVIDE POTABLE WATER CERTIFICATE FOR E. COLI AND COLIFORM FROM A RECOGNIZED TESTING 12. PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK, ALL OPENINGS IN PIPES, DUCTS AND LABORATORY UPON COMPLETION OF THE PROJECT. WATER IS TO BE TAKEN FROM A NEW FIXTURE TO TEST THE NEW EQUIPMENT SHALL BE CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE. PIPING INSTALLED. 13. MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKERS COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS. MINISTRY OF LABOUR REQUIREMENTS. 3. CODES AND REGULATIONS 14. EXCAVATION AND BACK FILLING SHALL BE BY THE TRADE INSTALLING THE SERVICE. PROVIDE COMPACTED 'A' GRAVEL FOR SANITARY, SOIL WASTE, VENT, AND ALL WATER PIPING SHALL CONFORM AND BE INSTALLED TO THE ONTARIO PLUMBING BEDDING AND BACKFILLING AS INDICATED. REMOVE SURPLUS MATERIAL FROM SITE. CODE AND THE CANADIAN PLUMBING CODE, LATEST EDITION. ALL GAS PIPING SHALL CONFORM TO THE CANADIAN GAS CODE AND THE LOCAL GAS DISTRIBUTORS REQUIREMENTS. 15. PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK. TESTING SANITARY PIPING: ALL SANITARY PIPING SHALL BE TESTED WITH WATER UNDER THE GUIDANCE OF THE LOCAL PLUMBING 16. INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS. INSPECTOR, SMOKE TESTS OR ANY OTHER TEST REQUIRED BY THE PLUMBING INSPECTOR SHALL ALSO BE MADE. WATER 17. SUBMIT THREE (3) COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A 3 RING BINDER LABELED FOR THE PROJECT. AND LOCAL GAS DISTRIBUTORS REQUIREMENTS. ALL GAS PIPING SHALL CONFORM TO THE CANADIAN GAS CODE AND THE LOCAL GAS DISTRIBUTORS REQUIREMENTS. 18. REMOVE ALL PROTECTIVE COVERINGS, CLEAN AND POLISH ALL EQUIPMENT, FREE ALL OBSTRUCTIONS, CLEAN AND REPLACE ALL FILTERS WITH NEW, AND LEAVE ALL KEYS AND WRENCHES WITH THE OWNER. FLUSHING AND DISINFECTING MAINTAIN TESTABLE RP BACKFLOW PREVENTOR BETWEEN MUNICIPAL WATER AND NEW PLUMBING SYSTEM. ENSURE A 19. ALL SURPLUS AND WASTE MATERIALS SHALL BE PROMPTLY REMOVED FROM THE PREMISES. MINIMUM OF 90% OF PLUMBING FIXTURES ARE INSTALLED. FLUSH WATER MAINS THROUGH AVAILABLE OUTLETS WITH A 20. ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS NOTED OTHERWISE. PUMPS FOR FLUSHING AS REQUIRED. OPEN AND CLOSE VALVES, AND OPERATE FIXTURES TO ENSURE THOROUGH FLUSHING. TAKE WATER SAMPLES AT REMOTE FIXTURES AND SERVICE CONNECTIONS. 21. THE OWNER WILL DECIDE WHICH ITEMS OR EQUIPMENT SLATED FOR REMOVAL THAT THEY WISH TO RETAIN AS THEIR PROPERTY AND THIS CONTRACTOR SHALL REMOVE ALL OTHER MATERIALS FROM THE PREMISES. 5. PIPE AND FITTINGS 22. ALL ELECTRICAL LINE AND LOW VOLTAGE WIRING WHICH IS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR AS COPPER PIPE. SANITARY AND VENT PIPING: (BELOW GRADE) PVC DRAINAGE PIPE TO SDR 35 WITH SOLVENT WELDED SPECIFIED ELSEWHERE HEREIN SHALL BE RUN IN EMT CONDUIT TO STANDARDS OF THE ELECTRICAL DIVISION. JOINTS, ABS DRAINAGE PIPE WITH SOLVENT WELDED JOINTS, WATER PIPING: TYPE L COPPER WITH LEAD FREE SOLDER JOINTS. GAS PIPING: GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH SCREWED MALLEABLE IRON FITTINGS 23. WARRANTY ALL MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF SYSTEM. FOR PIPING 2" DIAMETER AND SMALLER, AND WELDED JOINTS FOR PIPE 2 1/2" DIAMETER AND LARGER UNLESS OTHERWISE NOTED HEREIN. ALL GAS PIPING SHALL BE PAINTED WITH TWO COATS OF YELLOW PAINT. 24. VIDEO RECORDING OF NEW & EXISTING UNDERGROUND SERVICES PRIOR TO FINAL ACCEPTANCE OF THE NEW UNDERGROUND PLUMBING SYSTEM AND PRIOR TO POURING THE FLOOR THIS VALVES CONTRACTOR SHALL RETAIN A QUALIFIED CONTRACTOR TO VIDEO TAPE THE NEW. EXISTING AND REVISED SANITARY DRAINAGE PIPING AND BRANCH PIPING. TRANSFER ALL VIDEOTAPE INFORMATION TO DVD. THIS CONTRACTOR SHALL FLUSH PACKING, STEEL LEVER HANDLE. MILWAUKEE BA-455, CRANE, TOYO CHECK VALVES: HOT AND COLD WATER SIZES 1/2" THE NEW AND EXISTING STORM AND SANITARY SYSTEM TO REMOVE ALL DEBRIS PRIOR TO FINAL VIDEO TAPING OF SYSTEMS. PROVIDE 3 COPIES OF DIGITAL RECORDING ON MEMORY STICK. IDENTIFY VIDEO ROUTING ON RECORD DRAWINGS. OR EQUAL JENKINS VERTICAL LIFT CHECK VALVE, SCREWED ENDS ON VERTICAL PIPING. GAS VALVES: SHALL BE GSA APPROVED LUBRICATED PLUG TYPE. 25. LOCATION OF EXISTING UNDERGROUND SERVICES THIS CONTRACTOR SHALL LOCATE EXISTING SERVICES PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA. THIS 7. CLEAN OUTS CONTRACTOR SHALL USE A VIDEO CAMERA FOR THE EXISTING STORM AND/OR SANITARY DRAINAGE AT THE INDICATED CLEAN OUTS: PROVIDE AND SET CLEAN OUT PLUGS IN ALL DRAINS AND SOIL PIPE LINES WHERE OBSTRUCTIONS MAY BE CONNECTION POINT TO CONFIRM LOCATION, SIZE AND INVERT OF THE EXISTING PIPING. PLUMBING CODE. CLEAN OUTS SHALL BE FULL SIZES OF PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" DIAMETER 26. EXISTING CONCRETE SLAB X-RAY/SCANNING FOR LARGER PIPES. ANCON CO-100-R OR EQUAL. THIS CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED COMPANY TO PROVIDE AND X-RAY AND/OR SCAN OF THE EXISTING BURIED SERVICES IN WALL AND/OR FLOORS PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA. FAILURE TO 8. TRAP PRIMERS LOCATE EXISTING PIPING, CONDUIT REBAR ETC., SHALL NOT RELIEVE THIS CONTRACTOR OF REPAIR OF SAME PRIOR TO TRAP PRIMERS: ALL TRAPS WHERE REQUIRED BY THE CODE TO BE PRIMED OR WHERE SHOWN ON THE DRAWINGS SHALL INSTALLING HIS SERVICE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF EXISTING HAVE MIFAB-MR-ENC-AG OR EQUAL PRESSURE DROP ACTIVATED TRAP SEAL PRIMER INSTALLED IN THE NEAREST COLD SERVICES CAUSED BY CUTTING THE EXISTING CONCRETE SLABS AND/OR WALLS. WATER LINE TO THE TRAP. TRAP PRIMER SHALL BE CONCEALED, PROVIDED WITH ENCLOSURE FOR INSTALLTION IN WALL AND HAVE INTEGRAL AIR GAP FOR BACKFLOW PREVENTION, PROVIDE ACCESS DOOR. 27. EXCAVATING AND BACKFILLING PROVIDE ALL EXCAVATING AND BACKFILLING INSIDE THE BUILDING FOR PLUMBING PIPES, DRAINS AND EQUIPMENT. ALL 9. AIR CHAMBERS BACKFILLING SHALL BE NEW CLEAN GRANULAR 'A' FILL BROUGHT IN SPECIFICALLY FOR THE PURPOSE OF BACKFILLING TO AIR CHAMBERS: SHALL BE ONE PIPE SIZE LARGER THAN THE BRANCH PIPE END AND AT LEAST 2'-0" HIGH. THE UNDERSIDE OF FLOOR SLAB. ALL BACKFILLING SHALL BE COMPACTED AT INTERVALS NOT MORE THAN 150 MM (6") LAYER TO THE SATISFACTION OF THE CONSULTANT. 10. DRAIN VALVES 28. PIPE SLEEVES SYSTEMS TO COMPLETELY DRAIN THE SYSTEMS, ALL DRIP COCKS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES AT POINTS WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR FIRE RATED ASSEMBLIES AND AS INDICATED, GROUT SLEEVES IN PLACE, MINIMUM 6 MM (1/4") CLEARANCE ALL AROUND. 11. PLUMBING FIXTURES BETWEEN SLEEVE AND UNINSULATED PIPE OR BETWEEN SLEEVE AND INSULATION. CAULK BETWEEN SLEEVE AND PIPE IN FIXTURES AS LISTED ON THE DRAWINGS. ALL FIXTURES MUST BE NEW AND CLEAN WHEN THE WORK IS TAKEN OVER BY FOUNDATION WALLS AND BELOW GRADE FLOORS WITH WATERPROOF FIRE RETARDANT NON-HARDENING MASTIC. WHERE THE OWNER, ALL PLUMBING FIXTURES SHALL BE EQUIPPED WITH SUPPLY VALVES, FAUCETS, TRAPS, SUPPORTS, WATER SLEEVES PASS THROUGH WALLS OR FLOORS, PROVIDE SPACE FOR FIRESTOPPING. WHERE PIPES PASS THROUGH FIRE RATED WALLS, FLOORS AND PARTITIONS, MAINTAIN FIRE RATING INTEGRITY. ENSURE NO CONTACT BETWEEN COPPER TUBE TRAPS: 2" DIAMETER AND SMALLER, SHALL BE CAST BRASS AND CHROME PLATED IN EXPOSED AREAS. ALL SINK TRAPS OR PIPE AND FERROUS SLEEVE. FILL FUTURE-USE SLEEVES WITH LIME PLASTER OR OTHER EASILY REMOVABLE FILLER. SHALL BE TWO PIECE CONSTRUCTION. ALL TRIM MUST BE CAMBRIDGE BRASS OR EQUAL. ON COMPLETION ALL FIXTURES, COAT EXPOSED EXTERIOR SURFACES OF FERROUS SLEEVES WITH HEAVY APPLICATION OF ZINC RICH PAINT TO CGSB 1-GP-181M+AMDT-MAR-78. REFER TO DETAIL SCHEDULE. PART B DEMOLITION NOTES 12. PIPE INSULATION THIS PROJECT IS ONE OF A RETROFIT NATURE IN PART, AND WHICH WILL REQUIRE SOME DEMOLITION. ALLOW FOR ALL 1 1/2" (FOR PIPING 1 1/2" DIAMETER AND HIGHER) FIBERGLASS INSULATION WITH VAPOUR BARRIER. INSTALL AS PER REMEDIAL WORK IN AREAS INDICATED ON THE DRAWINGS AND AS GENERALLY DEFINED IN THE RELEVANT SECTIONS OF THE MANUFACTURERS RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH 6 OZ. CANVAS JACKET AND TWO COATS LAGGING SPECIFICATIONS. ADHESIVE. 2. THE SCOPE OF WORK IS ESSENTIALLY THE SELECTED DISCONNECTION AND/OR REMOVAL OF SERVICES AND/OR EQUIPMENT, PIPING, DUCTWORK ETC. AS INDICATED OR REQUIRED TO COMPLETE THE WORK. PART E SPRINKLER NOTES 3. THIS DIVISION IS TO LIAISE WITH THE OWNERS OR CONSULTANT FOR EQUIPMENT BEING REMOVED THAT MAY BE SUITABLE 1. SERVICES FOR REUSE TO THAT SPECIFIED OR HANDED OVER TO THE OWNER. CONNECT TO EXISTING SERVICES WHERE SHOWN ON DRAWINGS. 4. THIS DIVISION TO TAKE FULL RESPONSIBILITY FOR ANY SPECIAL TOOLS OR EQUIPMENT REQUIRED TO DISASSEMBLE OR 2. CODES AND REGULATIONS REMOVE MATERIAL FROM BUILDING. ALL SPRINKLER PIPING, SPACING AND EQUIPMENT SHALL CONFORM TO THE ONTARIO BUILDING CODE, NFPA-13 AND THE AUTHORITIES HAVING JURISDICTION. 5. THE GENERAL EXECUTION OF THE DEMOLITION IS TO BE CARRIED OUT IN A CLEAN AND EFFICIENT MANNER. 3. TESTING 6. DEMOLITION OF EXISTING CEILING, WALLS ETC., TO FACILITATE REMOVAL OF EXISTING SERVICES OR EQUIPMENT OR PIPING SHALL BE TESTED TO NFPA-13 REQUIREMENTS. INSTALLATION OF NEW TO BE KEPT TO A MINIMUM AND THEN RESTORED TO MATCH EXISTING. 4. PRODUCTS 7. ALL OPENINGS OR HOLES CREATED BY REMOVAL OF EXISTING MECHANICAL SYSTEMS WHICH ARE NOT BEING REUSED ARE PIPE AND FITTINGS: TO BE PATCHED WITH THE SAME MATERIAL SURROUNDING SURFACES. 50 MM (2") AND SMALLER: SCHEDULE 40 STEEL PIPE WITH SCREWED FITTINGS. 65 MM (2 1/2") AND LARGER: SCHEDULE 10 STEEL PIPE WITH VICTAULIC FITTINGS. B. PROTECT ALL EXISTING FURNISHINGS MATERIALS AND EQUIPMENT. ANY DAMAGE OCCURRING AS A RESULT OF THE WORK OF PIPE HANGERS: THIS DIVISION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THIS DIVISION. ULC LISTED FOR FIRE PROTECTION SERVICES. WHERE WORK INVOLVES BREAKING INTO OR CONNECTING TO EXISTING SERVICES, CARRY OUT WORK AT TIMES DIRECTED BY SPRINKLER HEADS THE OWNERS IN AN EXPEDIENT MANNER WITH MINIMUM DISRUPTION TO THE FACILITY AND SYSTEMS DOWNTIME. GENERAL: TO NFPA-13 AND ULC LISTED FOR FIRE SERVICES. 10. WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE CONSULTANT AND CONFIRM FINDINGS IN WRITING.

11. WHERE THE LOCATION OF ANY SERVICES HAS BEEN SHOWN ON THE PLANS, SUCH INFORMATION IS NOT GUARANTEED. IT IS

- 14. PROVIDE A LIST OF EQUIPMENT TO BE REMOVED TO THE OWNER, FOR HIS ACCEPTANCE OF SAME. REMOVE ALL EQUIPMENT

- PIPING: ALL WATER PIPING SHALL BE TESTED TO 150 PSI. PRESSURE FOR NOT LESS THAN FOUR HOURS WITHOUT A LOSS IN PRESSURE. GAS PIPING: ALL GAS PIPING SHALL BE PRESSURE TESTED TO THE LATEST ONTARIO GAS UTILIZATION CODE
- 6. FLUSHING AND CLEANING PROCEDURE: FLUSHING AND CLEANING SHOULD ONLY TAKE PLACE AFTER SUCCESSFUL PIPING PRESS SUFFICIENT FLOW OF POTABLE WATER TO PRODUCE A VELOCITY OF 1.5 M/S, WITHIN PIPE FOR 10 MIN, OR UNTIL FOREIGN TERMINAL DEVICE (REHEAT COILS, HEAT PUMPS, PERIMETER RADIATION, ETC.), INSTRUMENTS SUCH MATERIALS HAVE BEEN REMOVED AND FLUSHED WATER IS CLEAR WITH BACKFLOW PROTECTION. PROVIDE CONNECTIONS AND METERING VALVES AND ORIFICE PLATES SHOULD ONLY BE INSTALLED AFTER FLUSHING AND CLEANIN
- SANITARY AND VENT DRAINS: (ABOVE GRADE), MEDIUM WEIGHT CAST IRON WITH MECHANICAL RUBBER JOINTS OR TYPE DWV
- ISOLATION VALVES: HOT AND COLD WATER BRONZE BODY, CLASS 150, STAINLESS STEEL BALL, FULL PORT, PTFE SEAT AND DIAMETER TO 2" DIAMETER CRANE FIG. 1342, OR EQUAL JENKINS, BRONZE SWING CHECK, SOLDER ENDS. CRANE FIG. 29
- FOUND, AT CHANGES OF DIRECTION, AT THE BASE OF ALL SANITARY STACKS AND AT INTERVALS. LENGTHS TO THE ONTARIO

- DRIP COCKS: SUPPLY AND INSTALL 1/2" DIAMETER MUELLER OR EQUAL DRAIN VALVES AT ALL LOW POINTS IN THE WATER
- CONNECTIONS, ESCUTCHEONS, HANGERS, BOLTS, ETC. FIXTURES SHALL BE CRANE OR EQUAL AMERICAN STANDARD, KOHLER, ACCESSORIES AND EXPOSED PIPING SHALL BE THOROUGHLY CLEANED AND LEFT READY FOR USE. AFTER FINAL INSPECTION BY THE PLUMBING INSPECTOR CAULK AROUND BASE OF ALL FIXTURES TO THE WALL OR FLOOR WITH SILICONE CAULKING.
- INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE. WITH 1" (FOR PIPING UNDER 1 1/2" DIAMETER) OR

- SPRINKLER HEADS SHALL BE FULLY CONCEALED WITH WHITE COVER. VIKING MODEL B-1 OR EQUAL. COORDINATE LOCATION WITH REFLECTED CEILING PLANS. RELOCATE EXISTING SPRINKLER HEADS AS INDICATED. INSTALL IN NEW/EXISTING CEILING.

- 6. ENGINEERING DESIGN CRITERIA DESIGN SYSTEM IN ACCORDANCE WITH ONTARIO FIRE MARSHALL, LOCAL AUTHORITY HAVING JURISDICI UNDERWRITERS AS REQUIRED, AND NFPA 13, USING FOLLOWING PARAMETERS: HAZARD TO SUIT OCCUPANCY. PIPE SIZE AND LAYOUT:
- HYDRAULIC DESIGN OR PIPE SCHEDULE SIZING DESIGN.
- SPRINKLER HEAD LAYOUT: TO NFPA 13 OR AS DIRECTED BY AUTHORITIES HAVING JURISDICTION, AND 7. PROVIDE COMPLETE DRAWINGS AND CALCULATIONS STAMPED BY A QUALIFIED PROFESSIONAL ENGINE PROVINCE OF ONTARIO.
- 8. PROFESSIONAL ENGINEER SHALL PROVIDE ON SITE REVIEW AND CERTIFICATION FOR LOCAL BUILDING
- 9. INSTALLATION: INSTALL, INSPECT AND TEST TO ACCEPTANCE IN ACCORDANCE WITH ANSI/NFPA-13. 1 WITNESSED BY AUTHORITY HAVING JURISDICTION. SPACE HANGERS AND SUPPORT OF SPRINKLER PIP WITH NFPA REGULATIONS. PROTECT EXPOSED WORK. DO NOT COVER OR CONCEAL PIPING ACCESSOI TO INSPECTION AND APPROVAL BY AUTHORITIES HAVING JURISDICTION. ADJUST EQUIPMENT TO SATIS HAVING JURISDICTION AND CONSULTANT. PROTECT EQUIPMENT DURING PAINTING. REPLACE DAMAGED COMPONENTS. COORDINATE THE SPRINKLER PIPING AND EQUIPMENT WITH THAT OF OTHER TRADES AND BRANCHES SHALL BE RUN SO AS NOT TO INTERFERE WITH BUILDING'S STRUCTURE, MECHANIC/ INSTALLATIONS. GUARANTEE THAT THE SYSTEMS AND EQUIPMENT BE INSTALLED IN ACCORDANCE WITH PROVINCIAL BY-LAWS AND THE RULES AND REGULATIONS OF THE INSURANCE UNDERWRITERS AND ONTARIO.

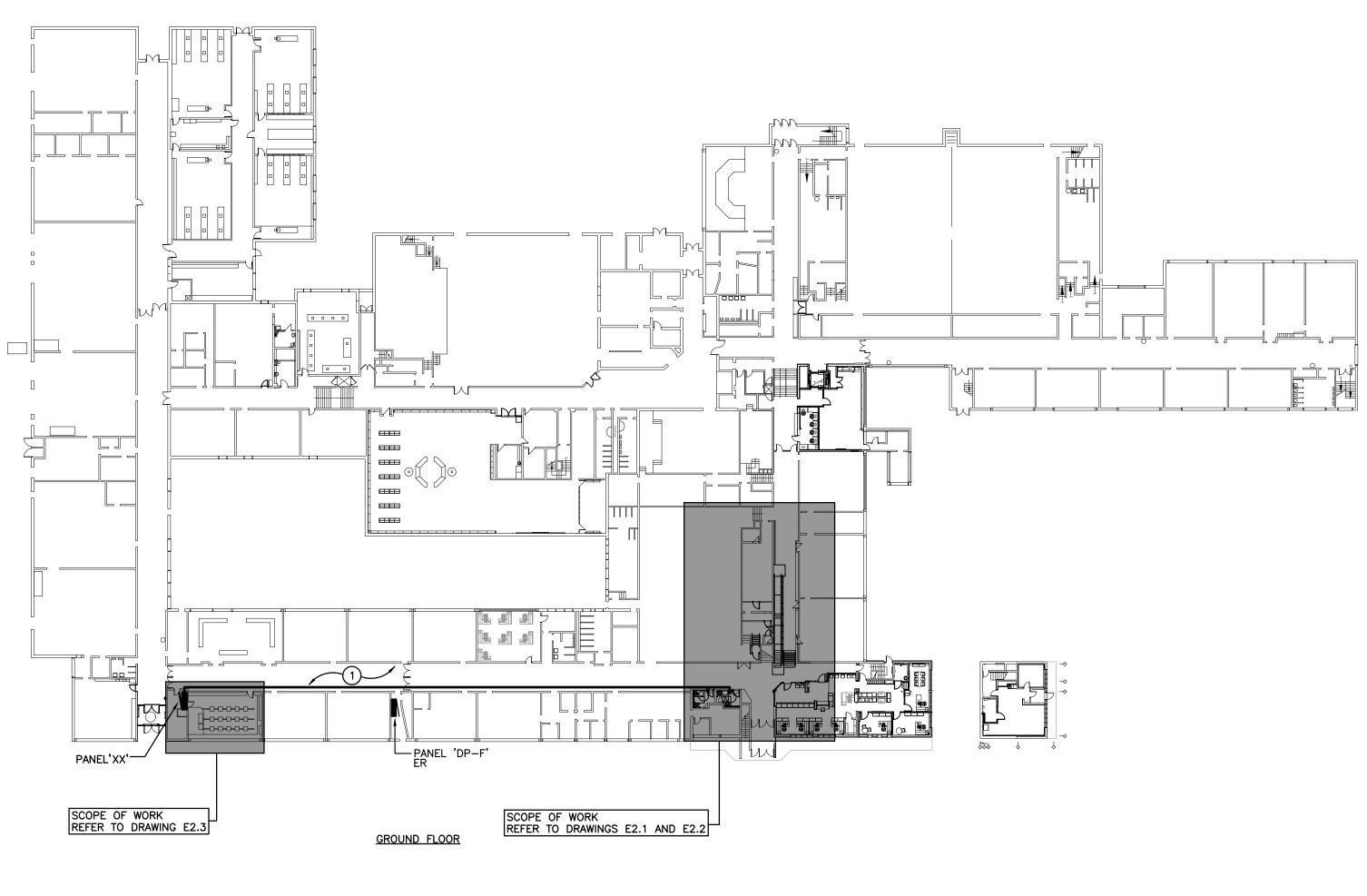
PART F HYDRONIC HEATING

- 1. HEATING WATER PIPING: SCHEDULE 40 STEEL PIPE TO ASTM 53. GRADE B
- PIPING NPS 2 AND UNDER SHALL BE MALLEABLE IRON 150 LB SCREWED FITTINGS WITH PULVERIZED PIPING NPS 21/2 AND OVER SHALL BE WELDED FITTINGS AND STEEL FLANGES TO ANSI/ASME B16.5. 2. PIPE INSULATION
- INSULATE ALL HEATING WATER PIPING WITH 11/2" FIBERGLASS INSULATION WITH VAPOUR BARRIER. INST MANUFACTURERS RECOMMENDATIONS. RECOVER EXPOSED PIPING WITH PVC JACKET. 3. FILLING OF SYSTEM
- REFILL SYSTEM WITH CLEAN WATER ADDING WATER TREATMENT AS SPECIFIED. THIS CONTRACTOR SHALL CONTACT WATER TREATMENT SUPPLIER AND CO-ORDINATE WATER TREATME
- 4. EXISTING SYSTEM DRAINAGE DRAIN EXISTING HOT HYDRONIC SYSTEM AS REQUIRED TO FACILITATE SYSTEM RENOVATIONS. DISPOSAL OF EXISTING SYSTEM SHALL BE TO THE REQUIREMENTS OF THE LOCAL AND/OR PROVINCI/
- 5. BOILERS: PROVIDE TWO (2) DE DETRICH MODEL 412-2838 MBH INPUT 2370 MBH OUTPUT GAS FIRED CAST INDICATED ON DRAWINGS COMPLETE WITH MODULATING GAS BURNER. GAS BURNER TO BE SUITABLE PROVIDE FOR EACH BOILER AND TO MEET ANSI/ASME REQUIREMENTS THE FOLLOWING: RELIEF VALVES: ANSI/ASME RATED, SET AT TO RELEASE ENTIRE BOILER CAPACITY.
- PRESSURE GAUGE: 90 MM DIAMETER COMPLETE WITH SHUT-OFF COCK.
- THERMOMETER: 115 MM DIAMETER RANGE 10 TO 150C. LOW WATER CUT-OFF: WITH VISUAL AND AU ISOLATING BUTTERFLY VALVE: ON SUPPLY AND RETURN CONNECTIONS. DRAIN VALVE: NPS 11/2. ONE TOOLS. INSTALL TO MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS AND ANSI/ASME BOILE VESSEL CODE SECTION IV.

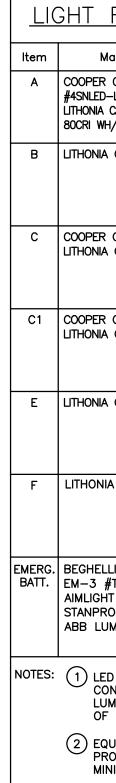
PART G HEATING, AIR CONDITIONING, AND VENTILATION NOTES

- 1. DUCTWORK TO BE CONSTRUCTED TO SMACNA STANDARDS, MEDIUM STATIC PRESSURE WITH LEAKAGE FABRICATED IN ACCORDANCE WITH RECOMMENDATIONS OF SMACNA AND ASHRAE. SEAL ALL TRANSVE JOINTS WITH DUCT SEALER.
- 2. ROUND AND OVAL DUCTS: FACTORY FABRICATED, SPIRAL WOUND, WITH MATCHING FITTINGS AND SPEC TRANSVERSE JOINTS UP TO 900 MM (36"): SLIP TYPE WITH TAPE AND SEALANTS.
- 3. SQUARE AND RECTANGULAR DUCTS:TO SMACNA. TRANSVERSE JOINTS, LONGEST SIDE UP TO AND INC SMACNA PROPRIETARY DUCT JOINTS.
- 4. DAMPERS ALL DAMPERS TO TO SMACNA RECOMMENDATIONS AS MINIMUM ACCEPTABLE STANDARD. SPLITTER DAI MATERIAL AS DUCT BUT ONE SHEET METAL THICKNESS HEAVIER WITH APPROPRIATE STIFFENING, CUT HINGE PIVOT, WITH CONTROL ROD WITH LOCKING DEVICE AND POSITION INDICATOR ON EXTERIOR OF BALANCING ROUND AND RECTANGULAR. MAXIMUM 100MM (4") HIGH, OR SAME MATERIAL AS DUCT E THICKNESS HEAVIER (MINIMUM 16 GAUGE), V-GROOVE STIFFENED WITH LOCKING QUADRANT. MULTI-DAMPERS DESIGNED TO SMACNA DETAILS, SELF-LUBRICATING NYLON BEARINGS, SHAFT EXTENSION T INSULATION THICKNESS, WITH LOCKING QUADRANT. MANUFACTURED ADJUSTABLE EXTRACTORS TO BE ACCEPTABLE PRODUCTS: TITUS, NAILOR OR EQUAL.
- 5. GRILLES, REGISTERS AND DIFFUSERS GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME MANUFACTURER. TYPE AS SHOWN ON THE ACCEPTABLE MATERIALS: E.H. PRICE, TITUS, NAILOR, KRUEGER, TUTTLE & BAILEY, METALAIR.
- 6. CONTROL NOTES PROVIDE A DDC CONTROL SYSTEM AS AN EXPANSION OF THE EXISTING BUILDING AUTOMATION CONTR
- THE EXISTING CONTROLS ARE DISTECH BEING PROVIDED BY ENERGY CONTROLS. MODULATE THE HEATING VALVES TO MAINTAIN ROOM TEMPERATURE.
- 7 SYSTEM BALANCING
- BALANCE AIR SYSTEMS USING NEBB CERTIFIED FIRM AND AS PER NEBB REQUIREMENTS TO WITHIN TOTAL SYSTEM CAPACITY. PROVIDE 3 COPIES OF BALANCING REPORTS C/W SYSTEM SCHEMATICS.

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SET OF CLEANING R AND PRESSURE		discre The d	contractor shall verify all dime pancies to the Consultant before cr rawings show general arrangement building construction will permit. C	ommencement of of services. Follo	f the work. ow as closely as
SURE TESTING. S FLOW METERS, FLOW G.		service The d require Drawin the p project conse	e from Consultant before commenc rawings do not indicate all offsets ed. Provide the same to meet the gs and specifications, etc., prepare roperty of the consultant and must t. These documents are not to be nt of the Consultant.	ement of the wo fitting and acce e required condit ad and issued by be returned at	ork. ssories which may be ions. / the consultant are the completion of th
RATE OF 5% MAXIMUM. RSE AND LONGITUDINAL			t scale this drawing. 24 DEI Consulting Engineers Inc.		
CIALS TO SMACNA.				Wat Pho Wel	Northland Road, terloo, ON, N2V 1Y8 ne: 519-725-3555 bsite: deiassociates.ca
LUDING 750 MM (30"):			Consulting		eers Mut
MPERS OF SAME AIRFOIL SHAPE, PIANO			MECHANICAL ELEC	CTRICAL A	QUATIC
DUCT. SINGLE BLADE JT ONE SHEET METAL		CLIENT			
LEAF OPPOSED BLADE ACCOMMODATE WITH ADJUSTMENT ROD.			ATERLOO REG HOOL BOARD	ION DI	STRICT
DRAWING.		51 Ar	delt Ave, Kitchener, ON N2C 2R5		
		PROJE			
ROLS.		W	RESTON HS - RA ASHROOM REN ose St. Cambridge, ON N3H 2E6		
5% OF		TITLE ME	ECHANICAL SP	ECIFIC	ATION
			NALTE ITCHENER HAM 800.685.1378	RF:	EDY toronto
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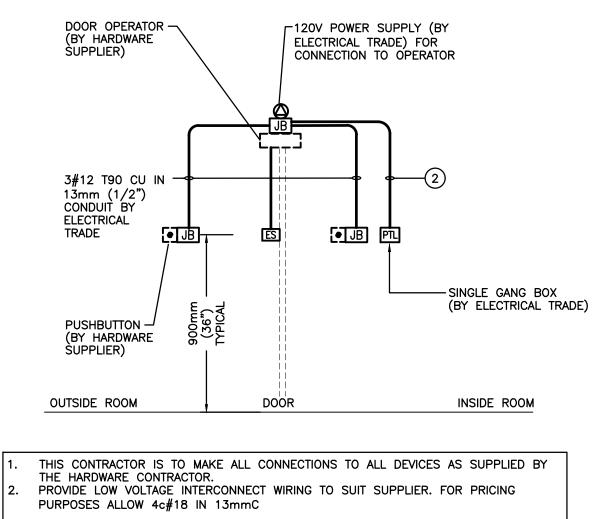
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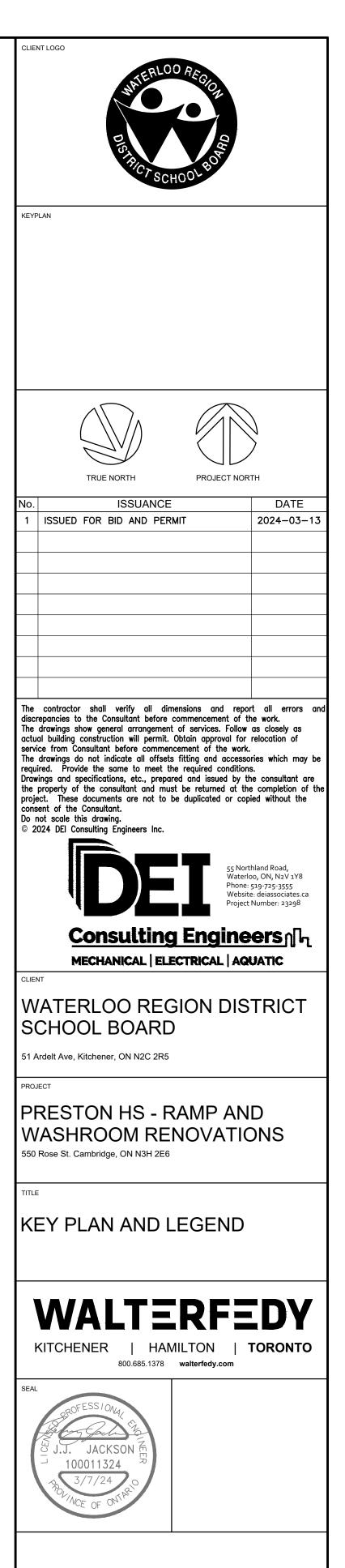
<u>NOTES</u> CONTRACTOR IS RESPONSIBLE TO REMOVE AND RE-INSTALL CEILING TILE TO SUIT RENOVATION. ANY DAMAGED OR FINGER-PRINTED TILE MUST BE REPLACED.

anufacturer/Catalog Number	Voltage	Lamp	Mounting	CRI	Listings	Description
CAT. -LD5-44SL-LW-UNV-L840-CD-1-AYC-WG/SNF-4FT CAT. #CLX L48 5000LM SEF RDL WD MVOLT GZ10 40K /WGCLX48	120V	LED 4601 LUMENS 4000K 38W	SUSPENDED	80	DLC DAMP LOC.	4' (1220mm) SURFACE LED STRIP LIGHT C/W WIDE LENSED OPTICAL DISTRIBUTION, CHAIN SUSPENSION KIT, 10% 0–10V DIMMING DRIVER, AND WIRE GUARD. NOTE: SUSPEND TO MAINTAIN MAXIMUM HEADROOM.
ат. #wf6 led 30к40к50к 90CRI мw м6	120V	LED 1190 LUMENS 4000K 14W	RECESSED	80	ENERGY STAR	RECESSED 6" (150mm) DIAMETER LED PANEL DOWNLIGHT.
CAT. #24FPSL2SCT3 CAT. #CPX 2X4 ALO8 SWW7 M2	120V	LED 4620 LUMENS 4000K 40.2W	RECESSED	80	DLC DAMP LOC.	2'X4' (610mmX1220mm) LED BACKLIT FLAT PANEL FIXTURE C/W FIELD SELECTABLE LUMENS AND COLOUR TEMPERATURE, WHITE FROSTED LENS, 10% 0–10V DIMMING DRIVER, AND WHITE FINISH.
CAT. #24FPSL2SCT3 CAT. #CPX 2X4 ALO8 SWW7 M2	120V	LED 3180 LUMENS 4000K 27.2W	RECESSED	80	DLC DAMP LOC.	SIMILAR TO FIXTURE 'C' WITH 'LOW' LUMEN SETTING.
CAT. #WF3 ADJ LED 30K 90CRI MW	120V	LED 530 LUMENS 4000K 7.5W	RECESSED	90	ENERGY STAR	RECESSED 3" (75mm) DIAMETER LED PANEL DOWNLIGHT.
LIGHTING CAT. # FMMCL-840-PIR-M4	120V	LED 570 LUMENS 4000K 10.4W	SURFACE	80	ENERGY STAR	INDOOR LED 7" (180mm) GLOSS WHITE FLUSH MOUNT CEILING LIGHT C/W MOTION SENSOR
I TEMPESTA SERIES: TA-LED-EM-120-S-90P CAT. #RMWL-12-014-WHT-TP-90 CAT. #SWL-EM-WH-120-AT-TP-90 MACELL CAT. #LBL-EM C/W KIT-SR-L	120V	LED 17W	SURFACE	N/A	N/A	SURFACE MOUNTED VANDAL RESISTANT LONG LIFE, SEALED BATTERY, C/W 17W LED MODULES, POLYCARBONATE BODY AND 90 MINUTE BATTERY DURATION.
D LUMEN VALUES QUOTED FOR FIXTURES ARE T NSIDERED MINIMUM, AND AS ABSOLUTE OR DEL MENS. LUMEN VALUES SHOULD NOT EXCEED MO SPECIFIED OUTPUT. JAL MANUFACTURERS/SUPPLIERS MUST CONFIRI OPOSED FIXTURE BY EMAIL WITH CONSULTANTS IIMUM OF 10 DAYS PRIOR TO TENDER CLOSE.	IVERED DRE THAN M THE		DESCRIPT THE ELEC WILL BE	ION, IT I CTRICAL (ENTERTA	S THE RESPO CONSULTANT'S INED FOR FAI	L CIES BETWEEN THE FIXTURE PART NUMBER AND DNSIBILITY OF THIS CONTRACTOR TO BRING THESE TO S ATTENTION PRIOR TO TENDER CLOSE. NO EXTRAS LURE TO DO SO. FINAL FIXTURE CHARACTERISTICS AND BY CONSULTANT AT TIME OF SHOP DRAWING REVIEW.

ELECTRICAL SYMBOLS NOTE: ALL SYMBOLS MAY NOT BE USED				
LIGHTING		POWER		
X	LIGHT FIXTURE TYPE AS INDICATED	ዋ	WALL MOUNTED RECEPTACLE (15A–120V)	
ZX/////	LIGHT FIXTURE (HATCHING DENOTES NIGHTLIGHT)	P	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)	
x x	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED	Ŧ	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)	
1 99 (t	CEILING MOUNTED EXIT LIGHT ARROWS DENOTE DIRECTION SHADING INDICATES FACE	₽	QUAD RECEPTACLE	
₽ ₽	SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE		PANEL AS INDICATED	
	BATTERY UNIT WITH INTEGRAL EMERGENCY FIXTURE (EM—X INDICATES BATTERY UNIT TYPE, DC—X INDICATES DC CIRCUIT,	HD	HAND DRYER	
	AND X-X INDICATES AC SOURCE CIRCUIT) SINGLE POLE SWITCH (3=3 WAY,	函	SOLENOID VALVE	
\$	4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED)			
\$ ⁰⁵	OCCUPANCY SENSOR (PASSIVE)			
OS	CEILING MOUNTED MOTION SENSOR		SECURITY	
WOS	WALL MOUNTED MOTION SENSOR	Д	SECURITY DETECTOR (SURFACE MOUNTED)	
FIRE ALARM			CEILING MOUNTED CAMERA	
•	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)		ACCESS CONTROL	
\$	SMOKE DETECTOR (RL=RELAY BASE)	●EM	EMERGENCY PUSH BUTTON STATION	
	PULLSTATION	DLH	"ASSISTANCE REQUIRED" DOME LIGHT WITH SOUNDER	
	ALARM BELL		GENERAL	
	COMMUNICATIONS	ER	INDICATED EXISTING ITEM TO REMAIN	
▼ #	SINGLE WALL MOUNTED TELEPHONE OUTLET C/W ½"(13mm)C TO CABLE MANAGEMENT SYSTEM.	D	INDICATES EXISTING ITEM TO BE DELETED	
\bigtriangledown	SINGLE COMPUTER OUTLET C/W ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM.	R	INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION	
ዋ	CLOCK AS PER SPECIFICATIONS	GF	GROUND FAULT	
A	WALL MOUNTED SPEAKER (CS=COLUMN SPEAKER)	CLG	CEILING MOUNTED	
8	CEILING MOUNTED SPEAKER	\bigotimes	NOTE INDICATOR	
۲	AUXILIARY ROUGH-IN FOR USE AS NOTED.		ELECTRIC HEAT	
STANDARD CIRCUIT LABELING		\times	BASEBOARD ELECTRIC HEATER (TYPE AS INDICATED)	
A-1-1 CIRCUIT INDICATION				



-DOOR OPERATOR DETAIL LE: NTS



24-003121 Page 16 of 21

E1.1

SHEET NO :

SCALE :

PROJECT NO :

RAWN BY :

CHECKED BY : SD

As indicated

2024-01-30

2023-0705-11

ΚZ



EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE. 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED. 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND CLIENT LOGO

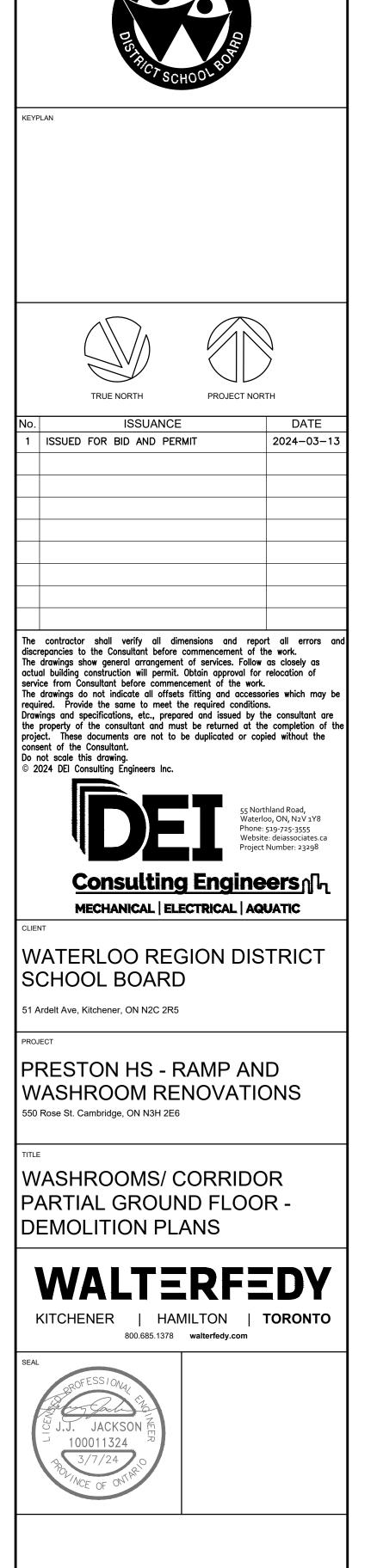
ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO

EXISTING SWITCH TO BE REMOVED. EXISTING LINE AND LOAD WIRING IS TO BE PULLED BACK TO ACCESSIBLE CEILING SPACE FOR RECONNECTION TO NEW CONTROLS. PROVIDE BLANK STAINLESS STEEL COVERPLATE TO SUIT EXISTING BACKBOX IF REQUIRED. REFER TO

2 EXISTING SQUARE D TYPE 'NQ' 100A 120/208V 3PH 4W 10kA PANEL TO REMAIN. MAINTAIN EXISTING LIGHTING CIRCUIT WITHIN THIS AREA FOR RECONNECTION TO NEW CONTROLS. REFER TO RENOVATION PLANS FOR ADDITIONAL INFORMATION.

4 EXISTING BASEBOARD HEATERS TO BE REMOVED COMPLETE. MAINTAIN CIRCUIT FOR RE-USE DURING RENOVATION. REFER TO RENOVATION DRAWINGS.

MAINTAIN LIGHTING CIRCUIT WITHIN THIS AREA FOR RECONNECTION TO NEW LIGHT FIXTURES.

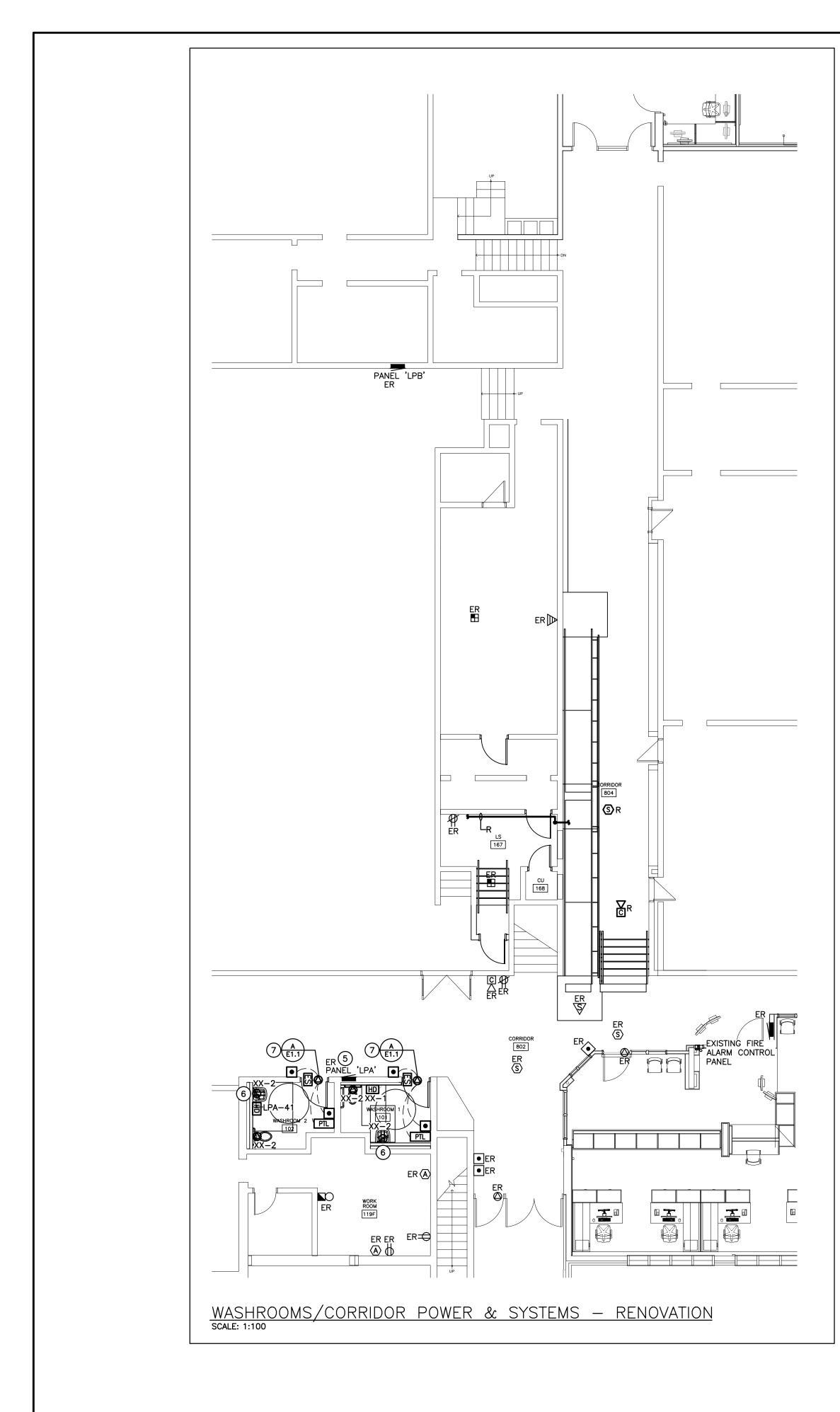


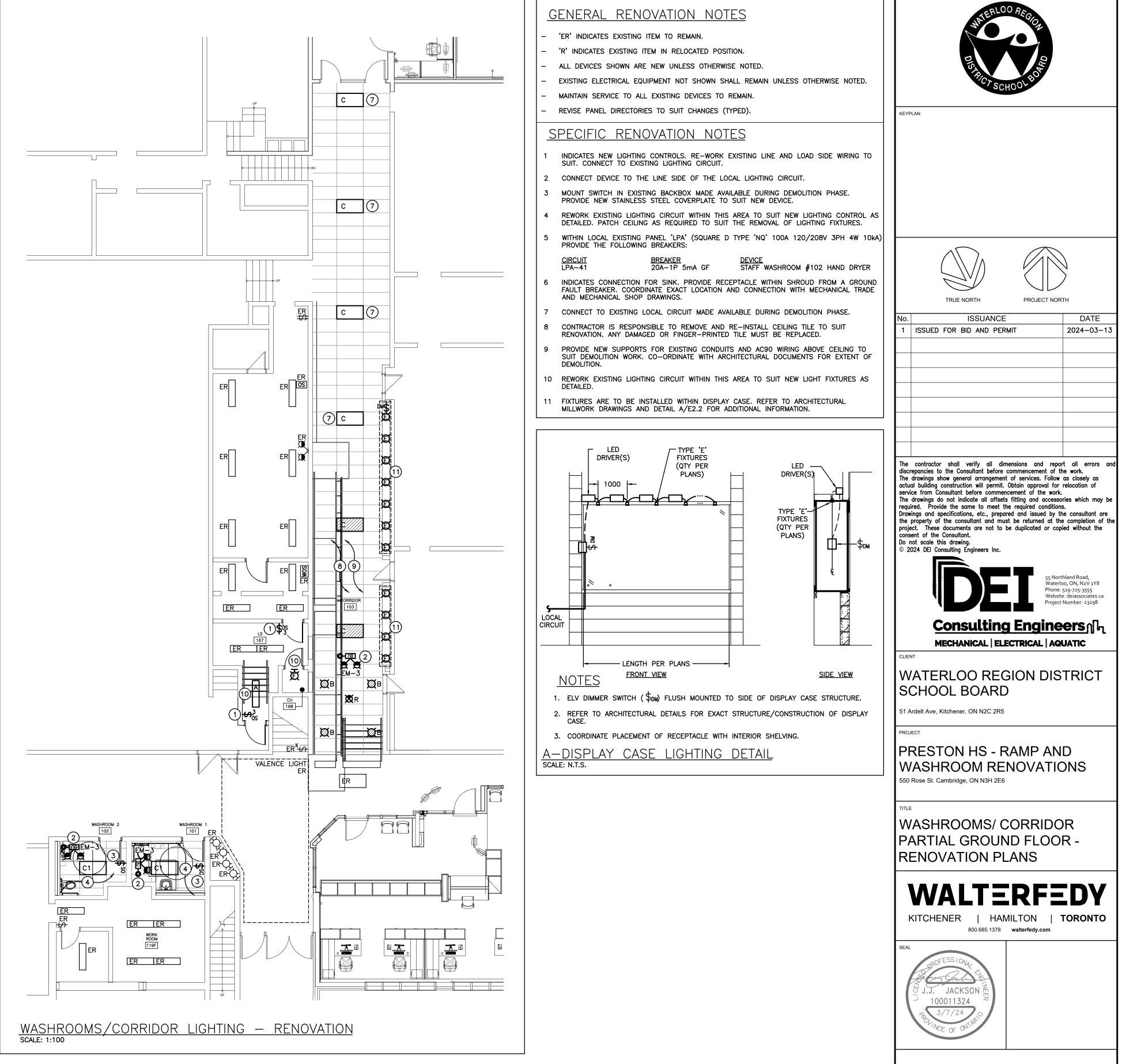
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PROJECT NO :	2023-0705-11
DRAWN BY :	KZ
	SD



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CLIENT LOGO

24-003121 Page 18 of 21

E2.2

SHEET NO :

SCALE

PROJECT NO :

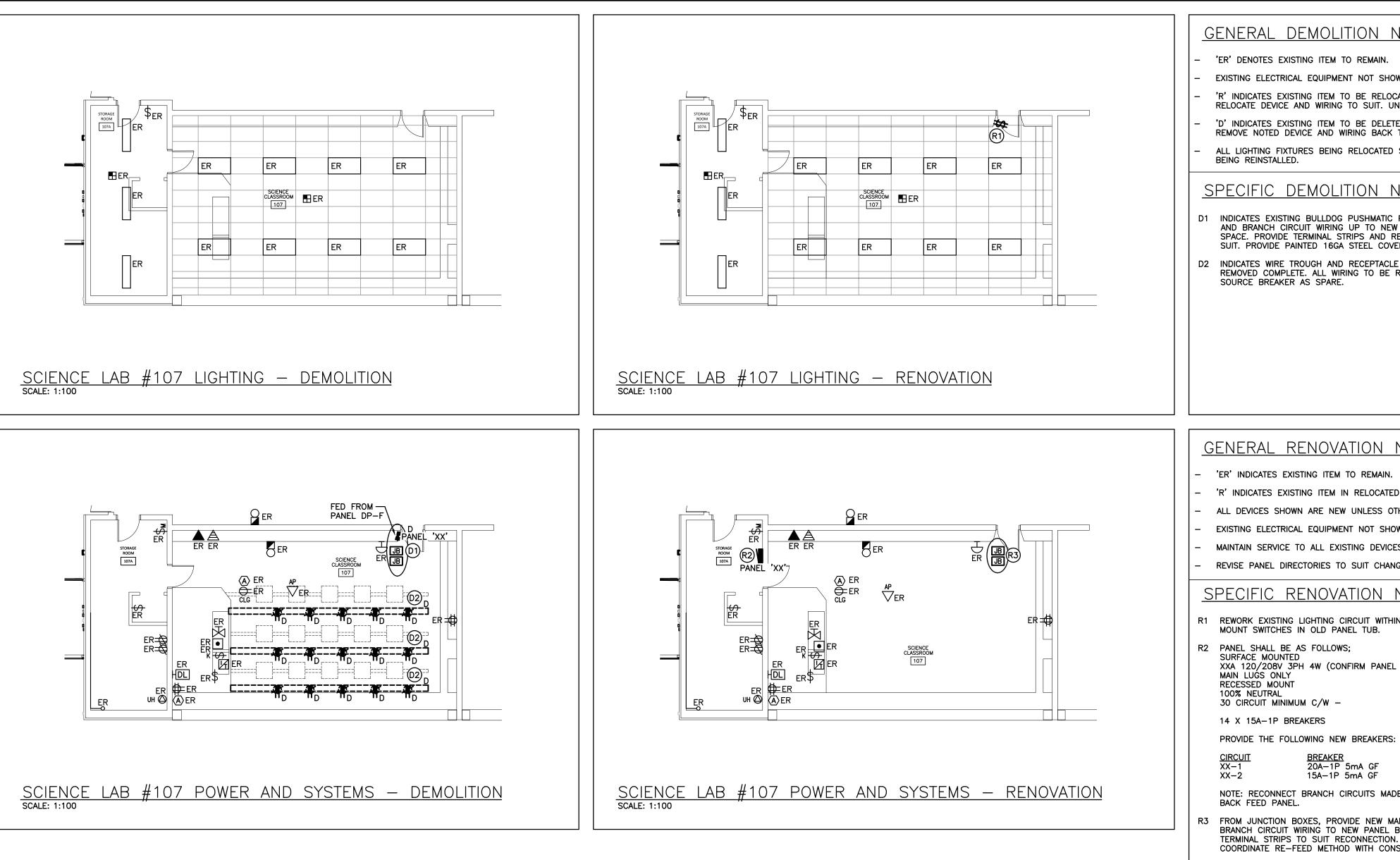
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CLIENT LOGO GENERAL DEMOLITION NOTES EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE. 'R' INDICATES EXISTING ITEM TO BE RELOCATED. REFER TO RENOVATION DRAWINGS AND RELOCATE DEVICE AND WIRING TO SUIT. UNLESS OTHERWISE NOTED. 'D' INDICATES EXISTING ITEM TO BE DELETED. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE NOTED DEVICE AND WIRING BACK TO SOURCE. ALL LIGHTING FIXTURES BEING RELOCATED SHALL BE CLEANED AND CHECKED PRIOR TO KEYPLAN SPECIFIC DEMOLITION NOTES D1 INDICATES EXISTING BULLDOG PUSHMATIC PANEL TO BE REMOVED COMPLETE. PULL MAINS AND BRANCH CIRCUIT WIRING UP TO NEW JUNCTION BOXES WITHIN ACCESSIBLE CEILING SPACE. PROVIDE TERMINAL STRIPS AND RE-TERMINATE BRANCH AND MAINS WIRING TO SUIT. PROVIDE PAINTED 16GA STEEL COVER ON EXISTING PANEL TUB. D2 INDICATES WIRE TROUGH AND RECEPTACLE MOUNTED IN MILLWORK TO BE DISCONNECTED REMOVED COMPLETE. ALL WIRING TO BE REMOVED COMPLETE BACK TO SOURCE. LABEL PROJECT NORTH TRUE NORTH DATE ISSUANCE 2024-03-13 ISSUED FOR BID AND PERMIT GENERAL RENOVATION NOTES - 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION. ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED. MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN. REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED). The contractor shall verify all dimensions and report all errors of SPECIFIC RENOVATION NOTES 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 R1 REWORK EXISTING LIGHTING CIRCUIT WITHIN THIS AREA TO SUIT NEW LIGHTING CONTROL. MOUNT SWITCHES IN OLD PANEL TUB. service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may b 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. XXA 120/208V 3PH 4W (CONFIRM PANEL SIZE) © 2024 DEI Consulting Engineers Inc 55 Northland Road, Waterloo, ON, N2V 1Y8 Phone: 519-725-3555 Website: deiassociates.ca Project Number: 23298 <u>BREAKER</u> 20A–1P 5mA GF STAFF WASHROOM #101 HAND DRYER 15A-1P 5mA GF WASHROOM FAUCET'S REC. Consulting Engineers NOTE: RECONNECT BRANCH CIRCUITS MADE AVAILABLE DURING DEMOLITION PHASE AND MECHANICAL | ELECTRICAL | AQUATIC CLIENT R3 FROM JUNCTION BOXES, PROVIDE NEW MAINS WIRING (4#8 T90 CU IN 21mmC) AND BRANCH CIRCUIT WIRING TO NEW PANEL BOARD LOCATION. TERMINATE WIRING ON WATERLOO REGION DISTRICT TERMINAL STRIPS TO SUIT RECONNECTION. VERIFY EXACT CONDITIONS ON SITE AND COORDINATE RE-FEED METHOD WITH CONSULTANT. SCHOOL BOARD 51 Ardelt Ave, Kitchener, ON N2C 2R5 PROJECT PRESTON HS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6 SCIENCE LAB #107 -DEMOLITION AND **RENOVATION PLANS**



ELECTRICAL SPECIFICATION

<u>GENERAL NOTES</u>

- .1 PROVIDE LABOUR MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION WITH QUALITY WORKMANSHIP ACCEPTABLE TO THE OWNER, ARCHITECT AND CONSULTANT
- .2 OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS INCURRED WITH THIS WORK. FILE ALL PLANS. OBTAIN NECESSARY APPROVALS, CERTIFICATES AND INSPECTIONS. SUBMIT ALL FINAL CERTIFICATES TO THE CONSULTANT.
- .3 COMPLY WITH RULES AND RECOMMENDATIONS OF THE BOARD OF UNDERWRITERS, ELECTRICAL SAFETY AUTHORITY, THE CANADIAN STANDARDS ASSOCIATION AND ALL REQUIREMENTS OF THE LOCAL UTILITY.
- .4 VISIT THE SITE BEFORE SUBMITTING TENDERS TO EVALUATE ANY SITE CONDITIONS THAT MIGHT ARISE. INCLUDE ALL SITE CONDITIONS IN TENDER, EXTRAS WILL NOT BE ACCEPTED UNLESS BELIEVED TO BE REASONABLE BY THE OWNER AND CONSULTANT
- .5 CUTTING AND PATCHING SHALL BE BY THE CONTRACTOR REQUIRING TO INSTALL THE SERVICE.
- THE DRAWINGS ARE DIAGRAMMATIC, THE SERVICES SHALL BE INSTALLED TO CONSERVE HEADROOM AND INTERFERE AS LITTLE AS POSSIBLE WITH THE FREE USE OF THE SPACES THROUGH WHICH THEY PASS. SUBMIT COPIES OF SHOP DRAWINGS AS PDF FILES VIA EMAIL FOR ALL MAJOR EQUIPMENT. THESE WILL BE REVIEWED BY THE CONSULTANT.
- RESUBMIT AS OFTEN AS MAY BE FOUND NECESSARY. .8 PROVIDE ALL NECESSARY PROTECTION FOR FINISHED OR UNFINISHED WORK. ALL OPENINGS IN CONDUITS, DUCTS AND EQUIPMENT SHALL BE
- CAPPED TO ENSURE SERVICES ARE KEPT CLEAN WHEN NOT IN USE. MAINTAIN INSURANCE TO FULLY PROTECT THE CONTRACTOR, OWNER AND CONSULTANT FROM ANY AND ALL CLAIMS SUCH AS UNDER THE WORKMEN'S COMPENSATION ACT, ETC. POST PROJECT NOTIFICATION AT THE SITE IN ACCORDANCE WITH THE MINISTRY OF LABOUR
- .10 PROVIDE STRUCTURAL SUPPORTS, PLATFORMS, SUPPORTING RODS, HANGERS, INSERTS AND BRACKETS FOR EQUIPMENT AND SERVICES. DO NOT SUPPORT SERVICES FROM STEEL DECK.
- .11 INSTRUCT THE OWNER'S STAFF IN THE CARE, MAINTENANCE AND OPERATION OF THE SYSTEMS.
- .12 WARRANTY ALL LABOUR, MATERIAL AND EQUIPMENT FOR A PERIOD OF TWO (2) YEARS AFTER FINAL ACCEPTANCE OF SYSTEM.
- .13 COORDINATE WITH OTHER CONTRACTORS INSTALLING EQUIPMENT OR MATERIAL AND ARRANGE EQUIPMENT IN PROPER RELATION WITH APPARATUS OF ALL OTHER TRADES.
- .14 PROVIDE LAMICOID TAGS FOR IDENTIFICATION OF NEW EQUIPMENT ADDED.
- .15 MOUNTING HEIGHTS SHALL BE AS FOLLOWS FROM FINISHED FLOOR TO CENTERLINE OF DEVICE/EQUIPMENT (UNLESS OTHERWISE NOTED); SWITCHES, DIMMERS AND SPEED CONTROLLERS: 1100mm (44") WALL RECEPTACLES:
- GENERAL: 400mm (16") ABOVE TOP OF COUNTERS: 100mm (4")
- PANEL BOARDS: 1400mm (4'-8") OR AS REQUIRED BY CODE. SECURITY SYSTEM MOTION DETECTÓRS: 300mm (12") BELOW FINISHED CEILING OR CEILING MOUNTED AS DIRECTED BY MANUFACTURER.
- .16 ALL AREAS NOT AFFECTED BY RENOVATION OR DEMOLITION SHALL REMAIN AS PRESENTLY INSTALLED UNLESS OTHERWISE NOTED.
- .17 ALL EXISTING ELECTRICAL DEVICES, OUTLET BOXES, ETC., NOT SHOWN ON DRAWINGS OR MENTIONED IN THE FOLLOWING NOTES AND INSTALLED IN WALLS SLATED FOR DEMOLITION, SHALL BE DISCONNECTED AND REMOVED COMPLETELY IN ALL RESPECTS
- SUBMIT ONE COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS IN A THREE RING BINDER LABELED FOR THE PROJECT COMPLETE WITH ITEMIZED SECTIONS CONTAINING PROJECT DATA, SHOP DRAWINGS, ETC. UPON ACCEPTANCE OF THE OPERATION AND MAINTENANCE MANUAL BY THE CONSULTANT PROVIDE TWO ADDITIONAL COPIES BOUND IN SEPARATE THREE RING BINDERS. A PDF FILE OF THE ENTIRE MANUAL IS TO BE PROVIDED ON A USB STICK. ONLY ONE USB STICK IS TO BE PROVIDED CONTAINING BOTH THE APPROVED MANUALS AND RECORD
- .19 CONTRACTOR SHALL PROVIDE 2 SETS OF REPRODUCIBLE ELECTRICAL DRAWINGS. MARK THEREON ALL CHANGES AS WORK PROGRESSES AND AS CHANGES OCCUR. THIS SHALL INCLUDE FIELD AND CONTRACT CHANGES TO ELECTRICAL SYSTEMS. IDENTIFY EACH DRAWING IN LOWER RIGHT HAND CORNER IN LETTERS AT LEAST 3mm (1/8") HIGH AS FOLLOWS: - "RECORD DRAWINGS: THIS DRAWING HAS BEEN REVISED TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. (SIGNATURE OF CONTRACTOR)(DATE)". SUBMIT HARD COPY TO CONSULTANT FOR APPROVAL. WHEN RETURNED, MAKE CORRECTIONS (IF ANY) AS DIRECTED. ONCE APPROVED, SUBMIT COMPLETED REPRODUCIBLE PAPER RECORD DRAWINGS AS WELL AS A SCANNED PDF COPY FILE ON USB STICK WITH OPERATING AND MAINTENANCE MANUALS.
- .20 CONTRACTOR SHALL PROVIDE RED LINE RECORD DRAWINGS OF EACH AND EVERY ELECTRICAL DRAWING FOR DEI CONSULTING ENGINEERS TO CAD THE RECORD DRAWINGS. THE CAD DRAWING FILES WILL BE PROVIDED TO THE OWNER AS PART OF THE MAINTENANCE MANUALS.
- .21 THE CONTRACTOR IS TO DETERMINE GENERAL INSPECTION FEES WITH THE ELECTRICAL SAFETY AUTHORITY AND INCLUDE AS PART OF TENDER.

BASIC MATERIALS

- .1 JUNCTION, OUTLET AND PULL BOXES MUST BE APPROVED TO SUIT INSTALLATION METHODS AND ENVIRONMENT.
- .2 CONDUIT MUST BE CONCEALED UNLESS INSTALLED IN SERVICE OR STORAGE ROOMS.
- .3 CONDUIT MUST BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER.
- ALL FEEDER AND BRANCH CIRCUIT WIRING MUST BE COPPER, T90 RATING/STYLE RUN IN EMT CONDUIT WITH INTERNAL INSULATED GREEN GROUND WIRE UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AND MINIMUM CONDUIT SIZE SHALL BE 3/4" (19mm).
- .5 AC90 CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN STEEL STUD WALLS AND "DROPS" IN T-BAR CEILING AREAS TO LIGHT FIXTURES
- AND FIRE ALARM DEVICES, LENGTH OF DROP MUST BE LIMITED TO 8 -0" (2400mm) WHERE DEVICES ARE TO BE INSTALLED ON EXISTING WALLS IN FINISHED AREA, WHICH CANNOT BE FISHED, INSTALL FEEDS IN A SURFACE
- METAL RACEWAY EQUAL TO WIREMOLD V700 SERIES. .7 COLOUR CODE CONDUITS, BOXES AND METALLIC SHEATHED CABLES.
- .8 CODE WITH PLASTIC TAPE OR PAINT AT POINTS WHERE CONDUIT OR CABLE ENTERS WALL, CEILING, OR FLOOR, AND AT 15m(45') INTERVALS.
- .9 COLOUR BANDS MUST BE 25mm(1") WIDE AND CODED AS FOLLOWS FOR NOTED SYSTEMS. (WRITER TO EDIT)

	• •
SYSTEM UP TO 208V SECURITY	COLOUR YELLOW BROWN
FIRE ALARM	RED
EMERGENCY LIGHTING	PINK

.10 THIS CONTRACTOR MUST PAINT ALL SYSTEM JUNCTION BOXES AND COVERS IN CONFORMANCE WITH THE ABOVE SCHEDULE

SHOP DRAWINGS AND PRODUCT DATA

- FURNISH COMPLETE CATALOG DATA FOR MANUFACTURED ITEMS OF EQUIPMENT TO BE USED IN THE WORK TO CONSULTANT FOR REVIEW WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- .2 IF MATERIAL OR EQUIPMENT IS NOT AS SPECIFIED OR SUBMITTAL IS NOT COMPLETE, IT WILL BE REJECTED BY CONSULTANT.
- ADDITIONAL SHOP DRAWINGS REQUIRED BY THE CONTRACTOR FOR MAINTENANCE MANUALS, SITE COPIES ETC., SHALL BE PHOTOCOPIES OF THE "REVIEWED" SHOP DRAWINGS. ALL COSTS TO PROVIDE ADDITIONAL COPIES OF SHOP DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
- .4 PARTIAL SUBMITTALS WILL NOT BE ACCEPTED.
- CATALOG DATA OR SHOP DRAWINGS FOR EQUIPMENT, WHICH ARE NOTED AS BEING REVIEWED BY CONSULTANT OR HIS ENGINEER SHALL NOT SUPERSEDE CONTRACT DOCUMENTS.
- .6 REVIEW COMMENTS OF CONSULTANT SHALL NOT RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS UNLESS CONSULTANT'S ATTENTION HAS BEEN CALLED TO SUCH DEVIATIONS IN WRITING AT TIME OF SUBMISSION, NOR SHALL THEY RELIEVE THIS DIVISION FROM RESPONSIBILITY FOR ERRORS IN ITEMS SUBMITTED.
- .7 CHECK WORK DESCRIBED BY CATALOG DATA WITH CONTRACT DOCUMENTS FOR DEVIATIONS AND ERRORS.
- .8 SHOP DRAWINGS AND PRODUCT DATA SHALL SHOW: MOUNTING ARRANGEMENTS. OPERATING AND MAINTENANCE CLEARANCES. E.G. ACCESS DOOR SWING SPACES.
- .9 SHOP DRAWINGS AND PRODUCT DATA SHALL BE ACCOMPANIED BY:
- DETAILED DRAWINGS OF BASES, SUPPORTS, AND ANCHOR BOLTS. MANUFACTURER TEST DATA WHERE REQUESTED.
- MANUFACTURER TO CERTIFY AS TO CURRENT MODEL PRODUCTION. CERTIFICATION OF COMPLIANCE TO APPLICABLE CODES.
- .10 STATE SIZES, CAPACITIES, BRAND NAMES, MOTOR HP, ACCESSORIES, MATERIALS, GAUGES, DIMENSIONS, AND OTHER PERTINENT INFORMATION. LIST ON CATALOG COVERS PAGE NUMBERS OF SUBMITTED ITEMS. UNDERLINE APPLICABLE DATA.
- .11 ONCE THESE SHOP DRAWINGS ARE RETURNED "REVIEWED" OR "REVIEWED AS NOTED" FABRICATION. PRODUCTION, AND INSTALLATION MAY COMMENCE. NOTE: IF A SHOP DRAWING IS RETURNED "REVIEWED AS NOTED" THIS CONTRACTOR MUST PROVIDE WRITTEN INDICATION THAT THE COMMENTS HAVE BEEN COMPLIED WITH.
- .12 A PARTIAL LIST OF SHOP DRAWINGS INCLUDES:
- PANELBOARDS. LUMINAIRES
- FIRESTOPPING MATERIALS SURFACE RACEWAYS
- HAND DRYERS WIRING DEVICES
- OCCUPANCY SENSORS



AND BALANCE. BREAKDOWN SHALL BE AS FOLLOWS: .1 PERMITS AND FEES MOBILIZATION (MAXIMUM 1%) DEMOLITION FEEDER CONDUITS BRANCH CONDUITS



FIRESTOPPING

- A FIRE SEPARATION. PROVIDE "FIREWRAP" BLANKET AROUND SERVICES PENETRATING FIREWALLS.
- DUCTWRAP OR APPROVED EQUAL.

- RECEIVE FINISHES.

- .12 ACCEPTABLE MANUFACTURERS RECTORSEAL CORPORATION (METACAULK) PROSET SYSTEMS

3M STI FIRESTOR

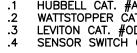
WIRING DEVICES

- SILVER ALLOY CONTACTS.
- .4 ACCEPTABLE MATERIALS:

- .9 ACCEPTABLE MATERIALS: SPECIFICATION BELOV

PASS & SEYMOUR LEVITON

BE EITHER:



- .15 OCCUPANCY SENSORS:

5

THIS CONTRACTOR MUST SUBMIT A BREAKDOWN OF THE TENDER PRICE INTO CLASSIFICATIONS TO THE SATISFACTION OF THE CONSULTANT, WITH THE AGGREGATE OF THE BREAKDOWN TOTALING THE TOTAL CONTRACT AMOUNT. EACH ITEM MUST BE BROKEN OUT INTO MATERIAL AND LABOUR COSTS. PROGRESS CLAIMS, WHEN SUBMITTED ARE TO BE ITEMIZED AGAINST EACH ITEM OF THE DRAW BREAKDOWN. THIS SHALL BE DONE IN TABLE FORM SHOWING CONTRACT AMOUNT, AMOUNT THIS DRAW, TOTAL TO DATE, % COMPLETE

PANELBOARDS AND MISCELLANEOUS DISTRIBUTION EQUIPMENT

.13 COMMISSIONING AND CLOSEOUT DOCUMENTS (MINIMUM 3%)

.3 THE BREAKDOWN MUST BE APPROVED BY THE CONSULTANT PRIOR TO SUBMISSION OF THE FIRST DRAW. .4 BREAKDOWNS NOT COMPLYING TO THE ABOVE WILL NOT BE APPROVED.

.5 BREAKDOWN MUST INDICATE TOTAL CONTRACT AMOUNT.

.6 MOBILIZATION AMOUNT MAY ONLY BE DRAWN WHEN ALL REQUIRED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT.

.1 FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN CONDUITS, DUCTS, AND ADJACENT FIRE SEPARATION. .2 PROVIDE MATERIALS AND SYSTEMS CAPABLE OF MAINTAINING EFFECTIVE BARRIER AGAINST FLAME, SMOKE, AND GASES

.3 COMPLY WITH THE REQUIREMENTS OF CAN4-S115-M35, AND DO NOT EXCEED OPENING SIZED FOR WHICH THEY HAVE BEEN TESTED. .4 SYSTEMS TO HAVE AN F OR FT RATING (AS APPLICABLE) NOT LESS THAN THE FIRE PROTECTION RATING REQUIRED FOR CLOSURES IN

.5 EXTENT OF BLANKET MUST CORRESPOND TO ULC RECOMMENDATIONS. IN GENERAL WRAP INDIVIDUAL CONDUITS WITH APPROVED FIREWRAP MATERIALS ON EACH SIDE OF FIREWALL, REFER TO ARCHITECTURAL DRAWINGS FOR FT RATINGS. PROVIDE 1 AND/OR 2 LAYERS OF FIREWRAP WITH TRANSVERSE AND LONGITUDINAL SEAMS OVERLAPPED AND/OR BUTTED (SECOND LAYER OFFSET FROM FIRST LAYER). CUT EDGES ARE TO BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 50 MM STAINLESS STEEL BANDING AT 200 MM INTERVALS. INSTALL FIREWRAP TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER FT RATING. ACCEPTABLE MANUFACTURERS ARE 3M FIREMASTER

.6 THE FIRESTOPPING MATERIALS ARE NOT TO SHRINK, SLUMP OR SAG AND BE FREE OF ASBESTOS, HALOGENS AND VOLATILE SOLVENTS. .7 FIRESTOPPING MATERIALS ARE TO CONSIST OF A COMPONENT SEALANT APPLIED WITH A CONVENTIONAL CAULKING GUN AND TROWEL. .8 FIRESTOP MATERIALS ARE TO BE CAPABLE OF RECEIVING FINISH MATERIALS IN THOSE AREAS, WHICH ARE EXPOSED AND SCHEDULED TO

.9 FIRESTOPPING SHALL BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO CONCEALMENT OR ENCLOSURE .10 INSTALL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION, MANUFACTURERS INSTRUCTIONS AND LOCAL AUTHORITY. .11 SUBMIT PRODUCT LITERATURE AND INSTALLATION MATERIAL ON FIRESTOPPING IN SHOP DRAWING AND PRODUCT DATA MANUAL

NOTE: FIRE STOP MATERIAL MUST CONFORM TO REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION. CONTRACTOR TO CONFIRM PRIOR TO APPLICATION AND ENSURE MATERIAL USED IS COMPATIBLE WITH THAT USED BY OTHER TRADES ON SITE. .13 ENSURE FIRESTOP MANUFACTURER REPRESENTATIVE PERFORMS ON SITE INSPECTIONS AND CERTIFIES INSTALLATION. SUBMIT INSPECTION REPORTS/CERTIFICATION AT TIME OF SUBSTANTIAL COMPLETION.

.1 GENERAL PURPOSE AC SWITCHES MUST CONFORM TO CSA C22.2 NO. 111 (LATEST EDITION). .2 15 OR 20 A, 120 V, SINGLE POLE, DOUBLE POLE, THREE-WAY, OR FOUR-WAY SWITCHES. .3 MANUALLY-OPERATED GENERAL PURPOSE AC SWITCHES WITH THE FOLLOWING FEATURES:

TERMINAL HOLES APPROVED FOR NO. 10 AWG WIRE. UREA OR MELAMINE MOLDING FOR PARTS SUBJECT TO CARBON TRACKING.

SUITABLE FOR BACK AND SIDE WIRING. TOGGLE COLOUR AS SELECTED BY ARCHITECT.

SINGLE POLE: HUBBELL CAT. #1201 OR EQUAL THREE-WAY: HUBBELL CAT. #1203 OR EQUAL

.5 INSTALL SINGLE THROW SWITCHES WITH HANDLE IN "UP" POSITION WHEN SWITCH IS CLOSED. .6 INSTALL SWITCHES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE SWITCH IS REQUIRED IN ONE LOCATION.

.7 RECEPTACLES, PLUGS, AND OTHER SIMILAR WIRING DEVICES MUST CONFORM TO CSA C22.2 NO. 42 (LATEST EDITION).

.8 DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 125 V, 15 A, U GROUND, WITH THE FOLLOWING FEATURES: UREA MOLDED HOUSING WITH COLOUR AS SELECTED BY ARCHITECT.

SUITABLE FOR NO. 10 AWG FOR BACK AND SIDE WIRING. BRFAK-OFF LINKS FOR USE AS SPLIT RECEPTACLES. EIGHT BACK WIRED ENTRANCES. FOUR SIDE WIRING SCREWS TRIPLE WIRE CONTACTS AND RIVETED GROUNDING CONTACTS

STANDARD DUPLEX RECEPTACLE: HUBBELL CAT. #HBL5252CN

DECORA STYLE DUPLEX RECEPTACLE: HUBBELL CAT. #HBL2152 COMPLETE WITH DECORA STYLE COVERPLATE TO SUIT

.10 OTHER RECEPTACLES WITH AMPACITY AND VOLTAGE AS INDICATED. COLOUR BY ARCHITECT. .11 ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE:

.12 WALL MOUNTED OCCUPANCY SENSORS (PASSIVE TECHNOLOGY), OCCUPANCY SENSORS USED IN STORAGE AND SERVICE ROOMS SHALL HUBBELL CAT. #AP1277XIN (COLOUR BY ARCHITECT)

WATTSTOPPER CAT. #PW-100-VOLT-X (COLOUR BY ARCHITECT) LEVITON CAT. #ODS-15-ID-VOLT-X (COLOUR BY ARCHITECT) SENSOR SWITCH CAT. #WSD-VOLT-X (COLOUR BY ARCHITECT)

.13 PROVIDE OTHER OCCUPANCY SENSORS TO SUIT THE DETAIL(S) ON THE DRAWINGS.

.14 ALL SENSORS SHALL BE SET TO 5 MINUTES "DELAY TO OFF" UNLESS OTHERWISE DIRECTED.

.1 INSTALL POWER PACKS IN ACCESSIBLE MAINTENANCE AREAS.

.2 PROVIDE ACCESS DOORS IF POWER PACKS ARE INSTALLED ABOVE DRYWALL CEILINGS.

.3 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORY IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER COVERAGE WITHIN THE RANGE OF COVERAGE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOMS.

.4 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH THE MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE FACILITY, TO VERIFY PLACEMENT TO SENSORS AND INSTALLATION CRITERIA.

THE CONTRACTOR SHALL ALSO PROVIDE THE ON-SITE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES SYSTEMS.

UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL. SUBMIT COMMISSIONING REPORT WITH CLOSE-OUT DOCUMENTS.

.16 INSTALL DEVICES IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE DEVICE IS REQUIRED IN ONE LOCATION.

- .17 SHEET STEEL UTILITY BOX COVER FOR WIRING DEVICES INSTALLED IN SURFACE MOUNTED UTILITY BOXES. .18 STAINLESS STEEL, VERTICALLY BRUSHED, 1mm THICK, COVER PLATES FOR WIRING DEVICES MOUNTED IN FLUSH-MOUNTED OUTLET

- .19 SHEET METAL COVER PLATES FOR WIRING DEVICES MOUNTED IN SURFACE-MOUNTED FS OR FD TYPE CONDUIT BOXES. .20 PROTECT STAINLESS STEEL COVER PLATE FINISH WITH PAPER OR PLASTIC FILM UNTIL PAINTING AND OTHER WORK IS FINISHED.

.21 INSTALL SUITABLE COMMON COVER PLATES WHERE WIRING DEVICES ARE GROUPED.

PRODUCTS MUST BE WITHIN A 2-STEP MACADAM ELLIPSE.

SECURED SO NO FIXTURE WEIGHT IS ADDED TO THE CEILING ASSEMBLY.

LETTERHEAD, THE CONTRACTOR IS TO PREPARE A CHART INDICATING:

LUMINAIRES MUST BE TESTED PRIOR TO SHIPPING.

'DELIVERED' VALUES.

.1 LOCATE AND INSTALL LUMINAIRES AS INDICATED.

APPEARANCE MUST BE NEAT AND PROFESSIONAL

.6 CONNECT UNIT EQUIPMENT TO CIRCUITS AS INDICATED.

CERTIFICATION OF CORRECT CONNECTION

- DURATION OF TEST IN MINUTES (MINIMUM 30)

NUMBER IDENTIFICATION AS TO CIRCUIT NUMBER AND PHASE.

.6 TWO KEYS FOR EACH PANEL BOARD AND KEY PANEL BOARDS ALIKE.

.7 ALUMINUM BUS WITH NEUTRAL OF SAME AMPERE RATING AS MAINS.

.9 TRIM AND DOOR FINISH MUST BE BAKED GRAY ENAMEL.

.16 CONNECT NEUTRAL CONDUCTORS TO COMMON NEUTRAL BUS.

SCHNEIDER ELECTRIC CAT. #NOOD SERIES

SIEMENS CAT. #SENTRON P1 SERIES

TO CORRECT ANY UNCOVERED PROBLEMS.

.17 BRANCH CIRCUIT PANEL BOARDS MUST BE ONE OF THE FOLLOWING:

CUTLER HAMMER CAT. #POW-R-LINE-C PRL-1 OR PRL-2

.18 ALL REDUNDANT BREAKERS ARE TO REMAIN AND BE RE-LABELED AS "SPARE".

.15 CONNECT LOADS TO CIRCUITS.

.1 PANEL BOARDS MUST CONFORM TO CSA C22.2 NO. 29 (LATEST EDITION).

CERTIFICATION OF CORRECT OPERATION

- ACTUAL PERIOD OF TESTING (TIME OF DAY)

.5 CONNECT LUMINAIRES TO LIGHTING CIRCUITS AS INDICATED.

LIGHTING SYSTEMS

.2 FIXTURE INSTALLATION

.7 GUARANTEE

PANEL BOARDS

.8 TESTING/CERTIFICATION

PROJECT

EQUIPMENT TYPE

DATE

.1 LED

CLIENT LOGO



KEYPLAN

FIXTURES ARE TO BE PROVIDED AS NOTED IN THE LIGHT FIXTURE SCHEDULE C/W THE FOLLOWING FEATURES

FIXTURE LED'S MUST BE TESTED IN CONFORMANCE WITH IESNA LM80 STANDARD. .2 LED'S MUST BE SELECTED USING A BINNING ALGORITHM TO ENSURE COLOUR AND LUMEN OUTPUT OF A GIVEN FIXTURE ARE CONSISTENT, AS WELL AS MEET OR SURPASS ANSI C78.377 SPECIFICATION FOR THE RATED LIFETIME OF THE FIXTURE. COLOUR ACCURACY BETWEEN .3 LUMINAIRES MUST BE TESTED TO IESNA LM79 BY AN INDEPENDENT APPROVED LABORATORY.

LUMINAIRES MUST BE ULC CERTIFIED AND APPROVED FOR USE IN CANADA. FIXTURES MUST MAINTAIN A MINIMUM OF 90% OF THEIR INITIAL LIGHT OUTPUT FOR 60,000 HOURS. SUBMIT TEST RESULTS UPON REQUEST. LUMEN VALUES INDICATED FOR FIXTURES IN THE PROJECT DOCUMENTS ARE TO BE CONSIDERED AS 'ABSOLUTE' OR .8 OTHER THAN FOR SPECIALTY FIXTURES, AND UNLESS OTHERWISE INDICATED, THE MAXIMUM DRIVER CURRENT IS TO BE 750 MA.

.2 FIXTURE SURFACE MOUNTED TO SUSPENDED CEILINGS MUST BE SECURED THROUGH CEILING ASSEMBLY TO CROSS MEMBER SUPPORTS. THESE SUPPORTS ARE TO BE STEEL CHANNELS OR ANGLES INDEPENDENTLY SECURED TO STRUCTURE USING #12 "JACK" CHAIN. EACH CHAIN MUST BE

.3 PLASTER FRAMES/FLANGE KITS MUST BE PROVIDED BY THIS DIVISION FOR FIXTURES RECESSED IN PLASTER AND/OR DRYWALL CEILINGS. WHERE SPECIFIED, FIXTURES TO BE CHAIN HUNG SHALL BE HUNG USING "JACK" CHAIN WITH A CAPACITY TO SUIT THE FIXTURE WEIGHT. BRANCH CIRCUIT WIRING FEEDING THESE FIXTURES SHALL BE AC90 CABLE "TY-WRAPPED" AT 36" (900mm) INTERVALS ALONG LENGTH OF DROP. FINAL

.7 ALIGN LUMINAIRES MOUNTED IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINES. .8 ALIGN LUMINAIRES MOUNTED INDIVIDUALLY PARALLEL OR PERPENDICULAR TO BUILDING GRID LINES. .9 ALL LIGHTING BRANCH CIRCUITS ARE TO BE PROVIDED WITH SEPARATE NEUTRALS.

.1 ALL LED FIXTURES AND DRIVERS ARE TO BE COMPLETE WITH A 5 YEAR GUARANTEE. .2 THE LABOUR REQUIRED TO REPLACE THESE DRIVERS MUST BE INCLUDED IN THE ABOVE GUARANTEE

AT THE COMPLETION OF THE PROJECT AND IN THE PRESENCE OF THE CONSULTANT, TEST ALL EXIT AND EMERGENCY FIXTURES. ON COMPANY

.2 IN ADDITION TO CSA REQUIREMENTS MANUFACTURER'S NAMEPLATE MUST SHOW FAULT CURRENT THAT PANEL INCLUDING BREAKERS HAS BEEN BUILT TO WITHSTAND. SERIES RATING IS ACCEPTABLE-SUBMIT INFORMATION WITH SHOP DRAWINGS. .3 BUS AND BREAKERS/SWITCHES MUST BE RATED FOR 10KA (SYMMETRICAL) INTERRUPTING CAPACITY OR AS INDICATED.

.4 SEQUENCE PHASE BUSSING WITH ODD NUMBERED BREAKERS ON LEFT AND EVEN ON RIGHT. WITH EACH BREAKER IDENTIFIED BY PERMANEN

.5 PANEL BOARD MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT AS INDICATED

MAINS MUST BE SUITABLE FOR BOLT-ON BREAKERS. PROVIDE MAIN (IF APPLICABLE) AND BRANCH BREAKERS AS BOLT-ON STYLE.

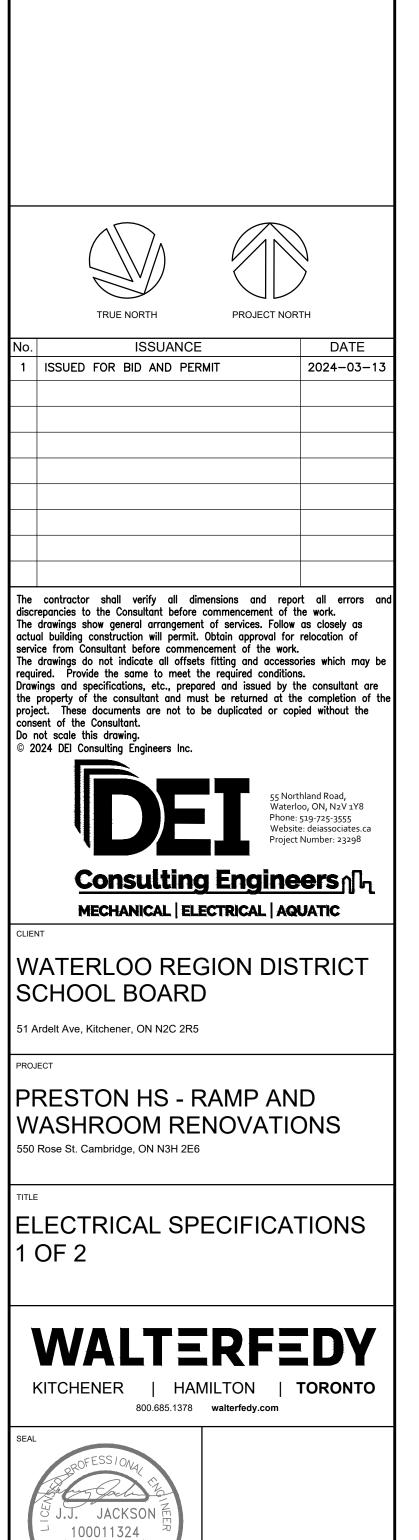
.10 BREAKERS WITH THERMAL AND MAGNETIC TRIPPING IN PANEL BOARD EXCEPT AS INDICATED OTHERWISE.

.11 PROVIDE NAMEPLATE FOR EACH PANEL BOARD WITH ENGRAVED DESCRIPTION AS INDICATED.

.12 FOR EACH NEW AND EXISTING PANEL PROVIDE COMPLETE CIRCUIT DIRECTORY WITH TYPEWRITTEN LEGEND SHOWING LOCATION OF EACH CIRCUIT. .13 LOCATE PANEL BOARDS AS INDICATED AND MOUNT SECURELY, PLUMB, TRUE AND SQUARE, TO ADJOINING SURFACES.

.14 INSTALL SURFACE MOUNTED PANEL BOARDS ON PLYWOOD BACKBOARDS. WHERE PRACTICAL, GROUP PANEL BOARDS ON COMMON BACKBOARD.

.19 EXISTING PANELS MUST BE REVIEWED FOR LOOSE AND/OR FAULTY BREAKERS AND WIRING. ALL REQUIRED MODIFICATIONS MUST BE PERFORMED



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3/7/24

As indicated

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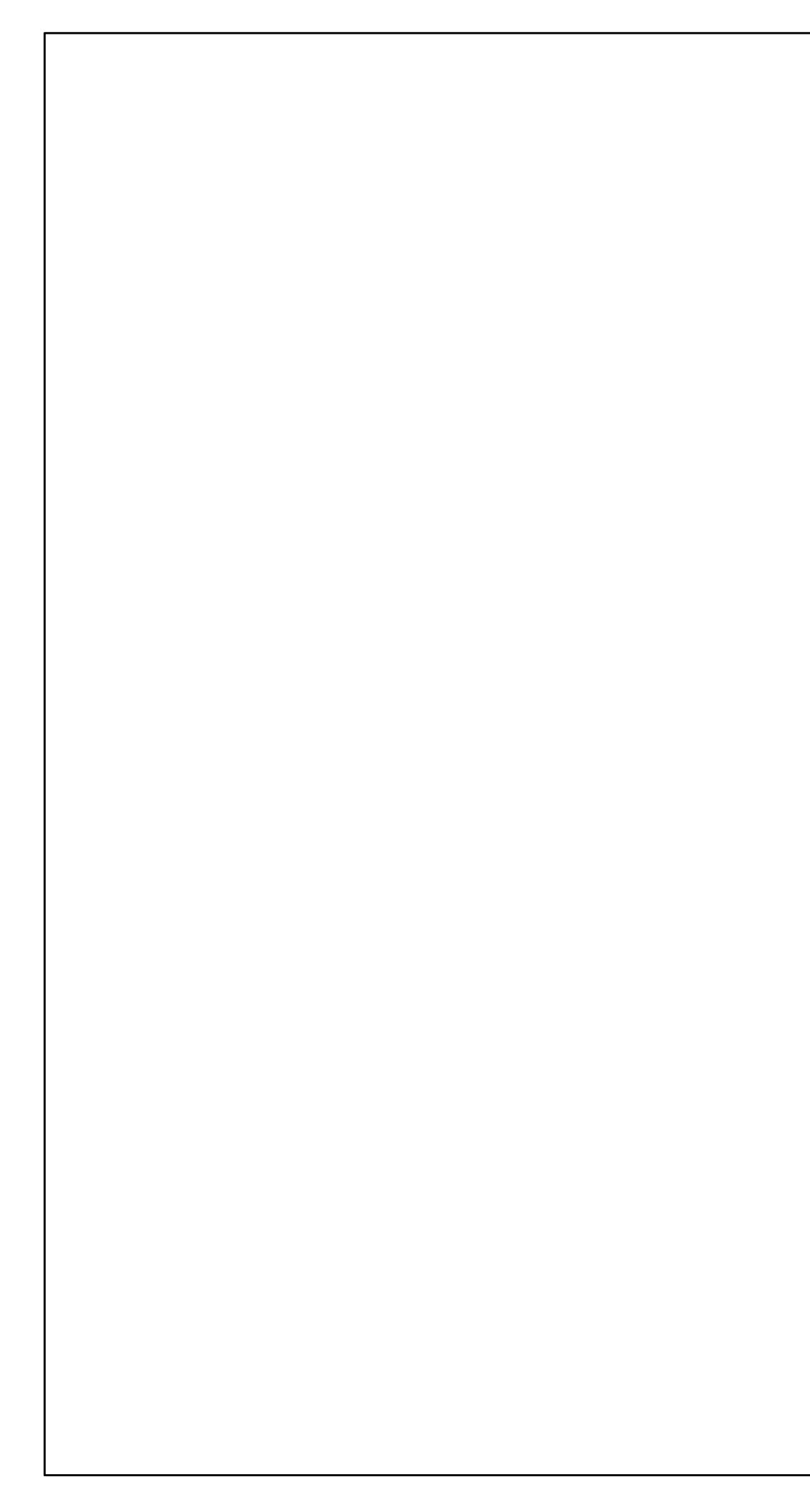
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FIRE ALARM SYSTEMS

- .1 INSTALLATION OF FIRE ALARM DEVICES MUST CONFORM TO ULC-S524 (LATEST EDITION).
- THE ELECTRICAL SAFETY CODE. LOCAL ZONE OR NEW ZONE AS INDICATED.
- .2 ALL WIRING MUST BE COLOUR CODED, SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND CONFORM TO THE LATEST EDITION OF .3 ALL NEW FIRE ALARM DETECTION AND SIGNALING DEVICES ADDED DUE TO RENOVATIONS AND ADDITIONS SHALL BE CONNECTED TO EXISTING .4 ONCE INSTALLATION IS COMPLETE THE MANUFACTURER'S REPRESENTATIVE MUST MAKE AN INSPECTION OF THE DEVICES INSTALLED.
- .5 THIS TEST MUST CONFORM TO THE ONTARIO BUILDING CODE AND THE LATEST EDITION OF ULC CAN4-S537.
- .6 ALL COSTS ASSOCIATED WITH THIS INSPECTION BY THE CONTRACTOR AND MANUFACTURER MUST BE CARRIED IN THE TENDER PRICE.
- .7 UPON SUCCESSFUL COMPLETION OF TESTING THE MANUFACTURER MUST SUBMIT TO THE CONTRACTOR AND CONSULTANT: A CERTIFICATE OF VERIFICATION - FIELD TECHNICIAN VERIFICATION SHEETS FOR EACH DEVICE VERIFIED (INCLUDE COPIES OF SAME IN MAINTENANCE MANUALS)

<u>EQUIPMENT</u>

- .1 HAND DRYERS .1 HAND DRYERS WHERE NOTED ON THE DRAWINGS ARE TO BE SUPPLIED AND INSTALLED BY THIS DIVISION WITH THE FOLLOWING FEATURES: .1 SURFACE MOUNTING.
 - FIXED NOZZLE. WHITE FINISH WITH AUTOMATIC ACTIVATION.
 - RATING OF 1800W (20A) AT 120V. NOVA 4-0412
 - .6 APPROVED ALTERNATE: WORLD DRYER CAT. #XA5-2-974.
- .2 CABLE MANAGEMENT HANGERS .1 HANGERS ARE TO BE APPROXIMATELY 150mm (6") X 80mm (3 1/4") CONSTRUCTED FROM 5mm (3/16") X 20mm (3/4") FLAT STEEL BAR FORMED TO RESEMBLE THE LETTER 'G' AND COMPLETE WITH SEVEN (7) MOUNTING HOLES AROUND THE HANGER PERIMETER.
- .2 HANGERS ARE TO BE MATTE BLACK FINISH AND MUST BE SUITABLE FOR WALL OR SUSPENDED MOUNTING.
- .3 COORDINATE LOCATIONS ON SITE WITH ALL OTHER SERVICES WITHIN CEILING SPACE.
- .4 ACCEPTABLE MANUFACTURES ARE AS FOLLOWS:
- .1 EMF CAT. #H-533-S .2 WIREMOLD CAT. #GH030406 .3 MONO SYSTEM CAT. #THE HOOK H-644-A
- .5 AS AN ALTERNATE TO THE HANGER SYSTEM THE CONTRACTOR MAY USE AS AN EQUAL, ONE RUN OF 50mm (2") X 150mm (6") WIRE MESH CABLE MANAGEMENT SYSTEM EQUAL TO CABLOFIL CAT.# CF–54/150 COMPLETE WITH CAT.# FASL150 WALL BRACKET OR CAT.#FASC200 SUSPENSION BRACKET. HANGERS TO BE INSTALLED AT A MAXIMUM OF 2400mm (8'–0").



KEYPLAN







DATE

2024-03-13

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. 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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Consulting Engineers MECHANICAL | ELECTRICAL | AQUATIC

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD

51 Ardelt Ave, Kitchener, ON N2C 2R5

PROJECT

PRESTON HS - RAMP AND WASHROOM RENOVATIONS 550 Rose St. Cambridge, ON N3H 2E6

CHECKED BY : SD

ELECTRICAL SPECIFICATIONS 2 OF 2

