<u>GENE</u>	RAL ABBREVIATIONS
A/F/F	- ABOVE FINISHED FLOOR
A.F. ADJ.	- Above finished - Adjustable
ARCH.	- ABOVE FINISHED - ADJUSTABLE - ARCHITECTURAL - BARRIER
BB	- BASKETBALL BACKSTOP
BD BF	- BOARD - BARRIER FREE
BFP BES	- BACK FLOW PREVENTER - BADMINTON FLOOR SOCKET
B/N/C	- BADMINTON FLOOR SOCKET - BULL NOSE CORNER
CCI	- CALL BUTTON STATION - COMPARTMENT CONTROL JOINT - CABINET HEATER
CH CHB	- CABINET HEATER
CH.TBL.	- CHALK BOARD - CHANGE TABLE
CM	- CONTROL JOINT - CONTROL MODULE - COAT HOOK
COH COMP.	- COAT HOOK - COMPRESSIBLE
CONT.	- CONTINUOUS - CONTROL PANEL
CF CV C/W	- CONTROL PANEL - CONTROL VALVE - COMPLETE WITH
DC DF	- DOUBLE - DROPPED CURB - DRINKING FOUNTAIN - DRAWING - DOWNSPOUT
DWG.	- DRAWING
DIST.	- DISTANCE
DISP.	- DISPLAY CASE - EMERGENCY PUSH BUTTON
ELEV.	- ELEVATION
EAR	- EMERGENCY PUSH BUTTON - EYE WASH STATION
FXP	- EXISTING - EXPOSED
EXIST.	- EXISTING
FB FD	- FIRE BLANKET - FLOOR DRAIN
FDG FDTN	- FOLD DOWN GRAB BAR - FOUNDATION
F/D/C	- FIRE DEPARTMENT CONNECTION
FE	- FIRE EXTINGUISHER CABINET - FIRE EXTINGUISHER
FI	- FLEXIBLE - FLOOR
	- FLOORING - FIRE RESISTANCE RATING
FS	- FOLD DOWN SHOWER SEAT - FOOTINGS
ftg.'s f/v	- FOOTINGS - FIELD VERIFY
GALV. GB	- FIELD VERIFY - GALVANIZED - GRAB BAR
GD	- GARBAGE DISPOSAL
GEN HB	- GENERAL - HOSE BIB
HD HDCP	- HAND DRYER - HANDICAPPED
HO	- HOLD OPEN - HORIZONTAL - INSULATION
INSUL.	- HORIZONTAL - INSULATION
KP L	- KEY PAD - LOCK
M / MIR	- MIRROR
	- MANUFACTURED - MAXIMUM
	- MECHANICAL - MINIMUM
MS	- MINIMUM - MOP SINK - NOT IN CONTRACT
NO.	- NOT IN CONTRACT - NUMBER - NOT TO SCALE
nis O.H.	- NOT TO SCALE - OVERHANG - OPEN TO ABOVE
O.T.A. PER ('S)	- OPEN TO ABOVE - PERIMETER / PERIMETERS
PB	- POWER OPERATOR PUSH BUTTON - PAPER TOWEL DISPENSER / DISPOSAL
	- Paper towel dispenser / disposal - Poured in Place - Pre-finished
	- PRE-FINISHED - PRESERVATIVE TREATED
	- RECESSED CAB HEATER - REQUIRED
R.C.P	- REFLECTED CEILING PLAN
REINF. REF.	- REINFORCED - REFERENCE
	- ROOF DRAIN - ROOM
RWL	- RAIN WATER LEADER
scd schedu	- TOILET SEAT COVER DISPENSER LES - SCHEDULES
SD SH	- SCUPPER DRAIN - SOAP HOLDER
SHF	- SHELF
SND SNV	- SANITARY NAPKIN DISPOSAL - SANITARY NAPKIN VENDING DISPENSER
spd spec'd	- SOAP DISPENSER - SPECIFIED
STRUCT. S/W	- STRUCTURAL - SIDEWALK
TB	- TACK BOARD
TC THERM	- TEACHER'S CABINET/CLOSET - THERMAL
TM TOB	- TILTED MIRROR - TOWEL BAR
TPD	- TOILET PAPER DISPENSER
TYP. U/C	- TYPICAL - UNDER CUT
U/S VAP.	- UNDERSIDE - VAPOUR
VERT.	- VERTICAL
VFS VS	- VOLLEYBALL FLOOR SOCKET - VISION STRIP
W/ WB	- WITH - WHITE BOARD / MARKER BOARD
W.C. WR	- WHEEL CHAIR - WASTE RECEPTACLE
WW	- WHITE WALL
/ %	- PER - PERCENT
@ o/c	- AT - ON CENTER
-, ~	

MATE	RIALS ABBREVIATIONS
AB	- ARCHITECTURAL BLOCK
ACT	- ACOUSTIC CEILING TILE
AWP	- ACOUSTIC WALL PANEL - ACOUSTIC TILE
AT	- ACOUSTIC TILE
AL	
AN	- ANODIZED - ANODIZED COLOURED
AN(C) B	
B&B	- BRICK - BOARD & BATTEN
BPG	- BACK PAINTED GLASS
CAR	- CARPET - CONCRETE BLOCK
СВ	- CONCRETE BLOCK
	- CEMENT BOARD
	- CERAMIC TILE
Clww	- CERAMIC TILE WET WALL
	<ul> <li>HARDENED &amp; SEALED CONCRETE</li> <li>SEALED CONCRETE</li> <li>HARDENED, SEALED &amp; POLISHED CONCRETE</li> <li>EXPANDED METAL</li> <li>EPOXY PAINT &amp; PRIMER</li> <li>EPOXY SEALED &amp; DODING</li> </ul>
C(P)	- HARDENED, SEALED & POUSHED CONCRETE
EM	- EXPANDED METAL
EP	- EPOXY PAINT & PRIMER
ESF	- EPOXY SEALED FLOORING - EPOXY TERRAZZO
F	- FIRELITE GLAZING
FT	- FLOCKED TILE (CARPETING)
GTP.BD.	- GYPSUM BOARD
GLD	- GLASS BLOCK - GLAZED BLOCK
GL	- GLAZING / GLASS
GWG	- GEORGIAN WIRE GLAZING
GM	- GLAZING / GLASS - GEORGIAN WIRE GLAZING - GYM MAT
GMT	- GLASS MOSAIC TILE - GYPSUM BOARD
GB	- GYPSUM BOARD
HM	- HOLLOW METAL
	D HARDWOOD
I VT	- LINOLEUM - LUXURY VINYL TILE
LVP	- LUXURY VINYL PLANK
LXG	- LUXURY VINYL PLANK - LEXAN GLAZING - MELAMINE COMPOSITE PANEL
MCP	- MELAMINE COMPOSITE PANEL
MAR	- MARMOLEUM
MAS	- MASONITE - MASONRY
MS MATI	
	- METAL - MOVEABLE WALL SYSTEM - NATURAL - EXPOSED
NAT.	- NATURAL - EXPOSED
PB	- PARTICLE BOARD
PC	- PRECAST CONCRETE
P / PTD.	- PAINTED
PF	- PREFINISHED
	- PLASTER
PLAM	- PLASTIC LAMINATE - PLYWOOD
PLYWD.	
г эг PT	- PIERCED STEEL PLANKING
PQF	- PORCELAIN TILE - PARQUET FLOORING
QT	- QUARRY TILE
R	- RUBBER
RB	- RUBBER BASE
RSF	- RESILIENT SHEET FLOORING - STONE
S	- STONE
SAFF	- SAFETY FLOORING
3C 3C	- SPECIAL COATING - SPORTS FLOORING
SG	- LAMINATED SAFETY GLASS
SGI	- LAMINATED SAFETY GLASS - SPANDREL GLAZING
SHV	- SHEET VINYL FLOORING
S.S.	- SOLID SURFACE - SPECIAL COATING - STUCCO
SPC	- SPECIAL COATING
STL	- STEEL
	- STAINLESS STEEL
31.31L. 58.V	- STAINLESS STEEL - STAINED & VARNISHED
S&V T	- TEMPERED GLAZING / GLASS
	- TEMPERED DOUBLE GLAZING / GLASS
TBB	- TILE BACKER BOARD
TECTUM	- TECTUM ACOUSTIC PANEL
TERR	- TERRAZZO - TOP SOIL
T.S.	- TOP SOIL
IURF	
U	- POLYURETHANE - VINYL COATED GYPSUM BOARD
VCP	- VINTE COATED GTESUM DOAKD
VCP VCT	- VENEER CORE PLYWOOD - VINYL COMPOSITE TILE
VPF	- VINYL PLANK FLOORING
VR	- VENTED RUBBER BASE
WD	- WOOD
WP	- WATER PROOFING

### **ARCHITECTURAL**

0.0	COVER
.0.1	WALL, FLOOR, ROOF SCHEDULES
.0.2	LIFE SAFETY PLAN 1906 LEVEL 1
.0.3	LIFE SAFETY PLAN 1962 LEVEL1 & 1906 LEVEL 2
0.4	LIFE SAFETY PLAN 1962 LEVEL 2 & 1906 LEVEL 3
.1	EXISTING SITE PLAN
	SITE PLAN - DEMO.
.1.0	
.1.1	SITE PLAN - RENOVATION
.1.2	TEMPORARY SITE PLAN - DURING CONSTRUCTION
2.1	1905 LEVEL 1 FLOOR PLAN
2.2	1962 LEVEL 1 & 1905 LEVEL 2 FLOOR PLAN
2.3	1962 LEVEL 2 & 1905 LEVEL 3 FLOOR PLAN
2.4	ROOF PLAN
.3.1	ELEVATIONS
4.01	BUILDING SECTIONS
4.02	BUILDING SECTIONS
4.10	WALL SECTION & DETAILS
4.11	WALL SECTION & DETAILS
4.12	WALL SECTION & DETAILS
4.13	WALL SECTION & DETAILS
4.14	WALL SECTION & DETAILS
4.15	WALL SECTION & DETAILS
4.16	PLAN SECTION DETAILS
4.17	STANDARD DETAILS
.5.1	STAIR AND RAMP PLAN DETAILS
.5.2	STAIR AND RAMP SECTION DETAILS
5.3	STAIR AND RAMP SECTION DETAILS
6.1	REFELECTED CEILING PLANS
.7.1	BARRIER FREE WASHROOM DETAILS
.8.1	DOOR & CURTAINWALL SCHEDULE
.8.2	DOOR & SCREEN DETAILS
2.0	LEVEL 1 1905 DEMOLITION PLAN
2.1	DEMOLITION PLANS
2.2	DEMOLITION PLANS
4.0	DEMOLITION SECTION
94.1	DEMOLITION SECTION
6.1	DEMOLITION REFLECTED CEILING PLAN
<u>NFCI</u>	<u>HANICAL</u>
11.1	LEGEND, SCHEDULES, AND KEY PLANS
11.2	PARTIAL DEMOLITION AND RENOVATION PLANS
11.3	PARTIAL RENOVATION PLANS
11.4	PARTIAL RENOVATION PLAN
11.5	PARTIAL RENOVATION PLANS
11.6	PARTIAL ROOF PLANS AND DETAILS
11.7	DETAILS
11.8	KEY PLAN, PART DEMO AND RENO PLANS (CASH
	ALLOWANCE)
	)
ELEC1	<u>IRICAL</u>
1.1	LEGEND, SCHEDULES, AND KEY PLANS
1.2	DETAILS AND SCHEDULES
2.1	DEMOLITION PLANS
3.1	RENOVATION PLANS
3.2	RENOVATIONS PLANS
3.3	RENOVATIONS PLANS
4.1	DISTRIBUTION RISER DIAGRAM AND PANEL SCHEDULES
5.1	FIRE ALARM RISER AND PASSIVE GRAPHIC
0.1	
TRUC	CTURAL
1.1	STRUCTURAL NOTES
1.2	STRUCTURAL NOTES, SCHEDULES AND DETAILS
1.3	STANDARD DETAILS
2.0	

- FOUNDATION AND LEVEL 1 FLOOR FRAMING PLANS LEVEL 2 & 3 FLOOR FRAMING PLANS S2.0
- S2.1
- **ROOF FRAMING PLANS** S2.2 STRUCTURAL DETAILS \$3.1
- STRUCTURAL DETAILS S3.2



# **CLIENT:** WATERLOO REGION DISTRICT SCHOOL BOARD

51 ARDELT AVENUE, KITCHENER, ONTARIO N2C 2R5





# **ARCHITECT:** +VG ARCHITECTS

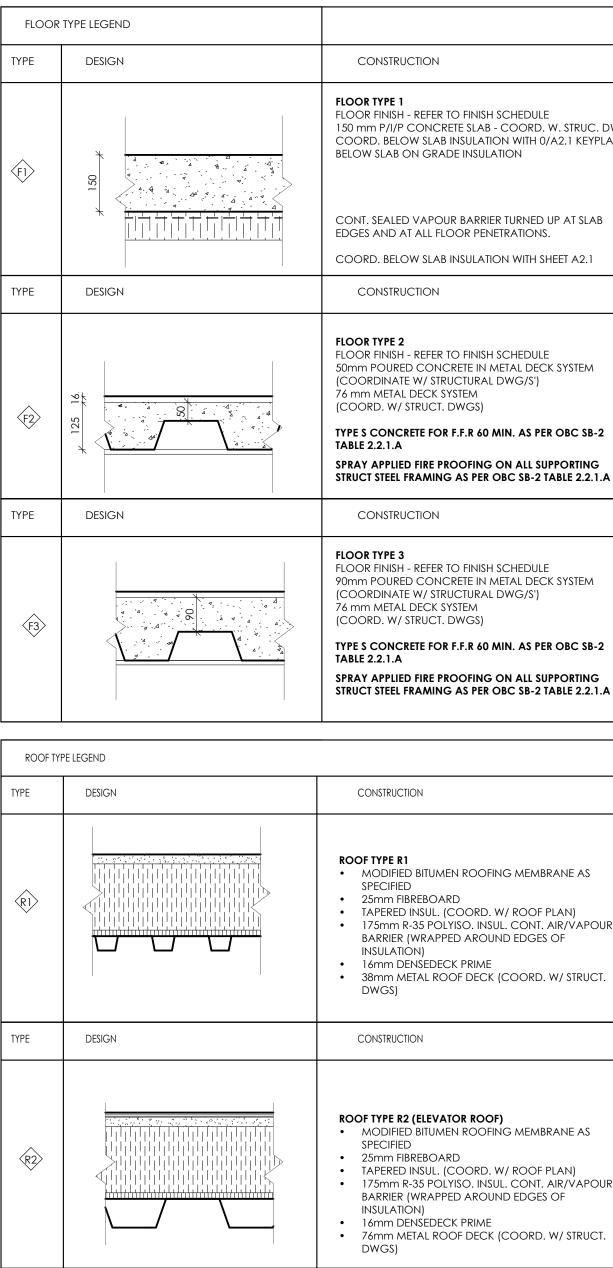
50 Dalhousie Street Brantford, Ontario N3T 2H8 T: 519 754-1652 www.plusvg.com

# **CONSULTANTS:** STRUCTURAL STRUCTURE +VG

50 Dalhousie Street Brantford, Ontario N3T 2H8 T: 519 754-1652 www.plusvg.com

**Revision Schedule** Particular Date ISSUED FOR 03/06/2023 COORDINATION ISSUED FOR 98% SET 11/29/2022 ISSUED FOR TENDER & 04/05/2023 PERMIT ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS. ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5 **PROJECT:** 22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 36" TS Û ₽ ARCHITEC THE VENTIN GROU OVER  $\mathbf{O}$ A0.0 Drawn by : LJ Checked by : PV/KC Scale : 1 : 1

WALL IYP	e legend	
TYPE	DESIGN	CONSTRUCTION
Ś		WALL TYPE 1 FOUNDATION WALL COORD. W. STRUCTURAL DWGS. PROVIDE & COORDINATE WATERPROOFING AND INSULATION WHERE INDICATED ON PLANS AND SECTIONS
TYPE	DESIGN	CONSTRUCTION
\$¥\$>	VARIES	WALL TYPE 2 INT. FIN. 140/190mm CONC. BLOCK FROM FINISHED FLOOR TO U/S STRUCTURE TYPICAL: COORDINATE WALL ANCHORAGEAT BOTTOM & TOP OF WALL W. STRUCTURAL DWGS. USE "BLOC-LOC" OR "DUROWALL" HORIZ. REINF. @ EVERY BLOCK COURSE. MORTAR: USE "M" TYPE MORTAR FOR ALL BLOCK COURSES (COORD. W/ SPECIFICATIONS) INT. FIN.
TYPE	DESIGN	CONSTRUCTION
		WALL TYPE 3
<del>W3</del>		90mm MASONRY VENEER C/W TIES & WEEPS. 20mm MAX. AIR SPACE (PRESSURE EQUALIZED C/W. VENTS, WEEPERS & MORTAR NET). 80mm R-17 SPRAY APPLIED INSULATION AIR/VAP. BARRIER SYSTEM (PART OF SPRAY APPLIED INSUL.) INSTALL REINFORCED FLEXIBLE AIR/VAP. BARRIER TRANSITION MEMBRANE OVER ALL SUBSTRATE TRANSITION LOCATIONS CONCRETE BLOCK OR POUR CONCRETE (COORD. W/ STRUCT. DWGS.) INTERIOR FINISH. WHERE "SIM." IS INDICATED PLEASE PROVIDE MIN 80 mm INSULATION WITH VAPOUR BARRIER.
TYPE	DESIGN	CONSTRUCTION
₩¥	INTERIOR	WALL TYPE 4 INTERIOR FINISH 16mm DRYWALL 90mm METAL STUD 16mm DRYWALL INTERIOR FINISH
TYPE	DESIGN	CONSTRUCTION
		WALL TYPE 5
€¥\$>	INTERIOR EX. WALL	INTERIOR FINISH 16mm DRYWALL 90mm METAL STUD EXISTING WALL OR CURTAIN WALL - REFER TO DRAWINGS FOR LOCATION .
TYPE	DESIGN	CONSTRUCTION
Ŵô		W5 - 38.1 mm x (92mm ) INTERIOR PARTITION         • 2x TYPE X 16mm (5/8") GYPSUM BOARD.         • 92mm (4") METAL STUD LAYER. REFER TO FLOOR PLAN FILL SPACE W. SOUND BATT INSULATION         • 16 mm (5/8") GYPSUM BOARD.         FIRE RESISTANCE RATING BXUVC. W605         WHERE INDICATED ON DWGS.         Design No. W605         Nonbearing Wall Assembly Rating - 1 h



	ROOM FINISH SCHEDULE									
			FLO	OR		WALL FINISH CEILING				
<u>No.</u>	<u>NAME</u>	<u>Area</u>	<u>FINISH</u>	<u>BASE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>WEST</u>	<u>EAST</u>	<u>FINISH</u>	<u>COMMENTS</u>
			07				2	2		
N11	1905 L1 VESTIBULE 1	8 m <sup>2</sup>	CT	RB	P	P	P	P	GB	TO MATCH EXISTING
N12	1905 L1 VESTIBULE 2	23 m <sup>2</sup>	CT	RB	Р	Р	Р	P	ACT1	
N13	OFFICE A&B VESTIBULE	5 m <sup>2</sup>	SF	RB	Р	Р	Р	P	ACT1	
N14	NEW OFFICE A	10 m <sup>2</sup>	SF	RB	Р	Р	Р	P	ACT1	
N15	NEW OFFICE B	13 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	ACT1	
N16	OFFICE C & D VESTIBULE	5 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N17	NEW OFFICE C	10 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N18	NEW OFFICE D	13 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N19	1962 L1 VESTIBULE	18 m <sup>2</sup>	CT	RB	Р	Р	Р	Р	GB	
N20	1905 L2 VESTIBULE 1	11 m²	CT	RB	Р	Р	Р	Р	GB	
N21	1905 L2 VESTIBULE 2	18 m²	CT	RB	Р	Р	Р	Р	ACT1	
N22	BF WASHROOM	8 m²	PT	PT	PT	PT	PT	PT	ACT2	PT FULL WALL HEIGHT
N23	STORAGE ROOM	6 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	EXPOSED PAINTED	
N24	NEW VESTIBULE A & B	8 m²	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N25	LEVEL 2 NEW OFFICE A	15 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N26	LEVEL 2 NEW OFFICE B	21 m²	SF	RB	Р	Р	Р	Р	ACT1	CASH ALLOWANCE
N30	1905 L3 VESTIBULE 1	11 m²	CT	RB	Р	Р	Р	Р	ACT1	
N31	1905 L3 VESTIBULE 2	18 m <sup>2</sup>	CT	RB	Р	Р	Р	Р	ACT1	
N32	BF WASHROOM	8 m <sup>2</sup>	PT	PT	PT	PT	PT	PT	ACT2	PT FULL WALL HEIGHT
N33	STORAGE ROOM	6 m <sup>2</sup>	SF	RB	Р	Р	Р	Р	EXPOSED PAINTED	
N202	1962 L2 VESTIBULE	19 m <sup>2</sup>	CT	RB	Р	Р	Р	Р	ACT	
Grand total: 21										

# 

FLOOR FINISH - REFER TO FINISH SCHEDULE 150 mm P/I/P CONCRETE SLAB - COORD. W. STRUC. DWG. COORD. BELOW SLAB INSULATION WITH 0/A2.1 KEYPLAN

CONT. SEALED VAPOUR BARRIER TURNED UP AT SLAB EDGES AND AT ALL FLOOR PENETRATIONS.

COORD. BELOW SLAB INSULATION WITH SHEET A2.1

FLOOR FINISH - REFER TO FINISH SCHEDULE

50mm POURED CONCRETE IN METAL DECK SYSTEM (COORDINATE W/ STRUCTURAL DWG/S') 76 mm METAL DECK SYSTEM (COORD. W/ STRUCT. DWGS)

TYPE S CONCRETE FOR F.F.R 60 MIN. AS PER OBC SB-2

SPRAY APPLIED FIRE PROOFING ON ALL SUPPORTING STRUCT STEEL FRAMING AS PER OBC SB-2 TABLE 2.2.1.A

FLOOR FINISH - REFER TO FINISH SCHEDULE 90mm POURED CONCRETE IN METAL DECK SYSTEM (COORDINATE W/ STRUCTURAL DWG/S') 76 mm METAL DECK SYSTEM

TYPE S CONCRETE FOR F.F.R 60 MIN. AS PER OBC SB-2

SPRAY APPLIED FIRE PROOFING ON ALL SUPPORTING STRUCT STEEL FRAMING AS PER OBC SB-2 TABLE 2.2.1.A

MODIFIED BITUMEN ROOFING MEMBRANE AS

TAPERED INSUL. (COORD. W/ ROOF PLAN) 175mm R-35 POLYISO. INSUL. CONT. AIR/VAPOUR BARRIER (WRAPPED AROUND EDGES OF 16mm DENSEDECK PRIME

ROOF TYPE R2 (ELEVATOR ROOF) MODIFIED BITUMEN ROOFING MEMBRANE AS

TAPERED INSUL. (COORD. W/ ROOF PLAN) 175mm R-35 POLYISO. INSUL. CONT. AIR/VAPOUR BARRIER (WRAPPED AROUND EDGES OF

16mm DENSEDECK PRIME • 76mm METAL ROOF DECK (COORD. W/ STRUCT.

> PD PADDING RB RUBBER \_\_\_\_\_\_ T TILE SF VYNIL SHEET VYNIL \_\_\_\_\_

ACT ACOUSTIC CEILING TILE CRP CARPET ex. existing GB GYPSUM BOARD P PAINT PT PORCELAIN TILE

PL BD PLAM BOARD

### TYPICAL NOTES:

ALL PARTITIONS / WALL TYPES SHALL EXTEND FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE ABOVE UNLESS NOTED OTHERWISE AND FIRE STOP ALL WALLS REQUIRED TO MAINTAIN A FIRE RESISTANCE RATING AS PER THE LIFE SAFETY DRAWINGS OR FILL VOIDS WITH SOUND INSULATION C/W ACOUSTICAL CAULK AT ALL WALL PERIMETERS (TYP).

ALL GYP. BD. ASSEMBLIES / FIRE SEPARATION ASSEMBLIES (WITH OR WITHOUT RATINGS) TO BE TYPE "X" FIRE RATED 16mm GYPSUM BD. (PROVIDE PAPERLESS GYPSUM BOARD IN ALL "WET " AREAS)

GYP. BD. TO EXTEND BEHIND ALL RECESSED FIXTURES / EQUIP. / PANELS FOR REQ.'D F/R/R (TYP.)

THERE ARE TO BE NO HOLES / VOIDS IN ANY GYP. BD. FINISHED SYSTEMS INCLUDING AROUND ALL PENETRATIONS, ETC.

ALL GYPSUM BOARD INSTALLED BELOW 2440mm A.F.F. TO BE ABUSE RESISTANT GYPSUM BOARD AND SHALL HAVE FIRE RESISTANCE RATING WHERE REQUIRED.

SOUND ATTENUATION BATT INSUL. TO FILL ALL CAVITY VOIDS SOLID; TO BE FIRE RATED IN ALL FIRE WALLS TYP. PROVIDE LATERAL BRACING @ TOP OF ALL CONC. BLOCK WALLS / ALL INT. PARTITIONS W/ STEEL ANGLES SECURED TO STRUCTURE. PROVIDE REINF.'G & BRACING WHERE REQ.'D. COORDINATE WITH STRUCTURAL DRAWINGS.

ALL OPENINGS IN INT. & EXT. WALL SYSTEMS TO HAVE RESPECTIVE ALL OPENINGS IN INT. & EXT. WALL STSTEMS TO THE REVISE. ALL WALL WALL SYSTEM ABOVE THE OPENING OR NOTED OTHERWISE. ALL WALL INSTALLED ON RM. SIDE, &/OR RM. W/ STC RATING, NOT CORR. SIDE NOTED OTHERWISE

PROVIDE BLOCKING AS REQ.'D FOR INSTALLATION OF WALL / ROOF/ COORD. W/ RM. FIN. SCHEDULE FOR FINISHES. FLOOR MOUNTED ITEMS. COORD. W/ ALL DWG.'S & SPEC.'S (TYP).

ENG.'D STUD SYSTEM REQ.'D FOR LARGE SPANS EXCEEDING 3m OR WHERE LARGE / HEAVY ITEMS ARE MOUNTED TO WALL SYSTEM (PROVIDE PROF. ENG. SEALED AND SIGNED SHOP DWG.'S) PROVIDE PRE-ENG.'D ALUM. PANEL SUPPORT SYSTEM. ALL METAL

FRAMING / STRUCT. STEEL STUD FRAMING LAYOUT & SIZING TO BE ENG.'D BY PROF. ENG., PROVIDE SEALED & SIGNED SHOP DWG.'S FOR REVIEW

COORD. W/ FLOOR PLANS FOR PARTITION WYTHE DIMENSIONS INSTALL AIR / VAP. BARRIER TRANSITION MEMBRANE @ TRANSITION LOCATIONS, OVER & UNDER 'Z' GIRTS, AS SHOWN ON DETAILS & GALVANIZED STEEL CAVITY CLOSURES AROUND ALL OPENING PERIMETERS & ANCHORED TO WALL.

INSTALL AIR/VAP. BARRIER TRANSITION MEMBRANE FROM CLOSURE MIN. 200mm OVER ONTO WALL SUBSTRATE TYP.

AT LOCATIONS WHERE VENTED WALL CAVITY SPACE WITH COMBUSTIBLE INSULATION IS GREATER THAT 25mm IN WIDTH, PROVIDE FIRE BLOCKING AS PER LATEST O.B.C. AT THE FOLLOWING LOCATIONS: · AT EVERY FLOOR LEVEL

· AT A MAX. HORIZONTAL 65.6 FT (20m) SPACING · AT A MAX, VERTICAL 9'-10" (3m) SPACING COORD. W/ A3 DWG. FOR LOCATIONS. PROVIDE FLASHING & WEEPING SPACE IN EXT. PANEL MATERIAL TO

EXT. @ ALL HORIZ. FIRE STOPPING JOINTS

(UNLESS WALL TYPE CALLS FOR BOTH SIDES)

INSTALL FIRE RETARDANT TREATED 19mm PLYWD. ON WALL SUBSTRATES IN I.T., MECH., ELEC., & EQUIP. RM.'S OR ANY OTHER LOCATION WHERE REQ.'D FOR ANY EQUIP. / PANEL MOUNTING REQ.'S. COORDINATE WITH MECH. & ELECT. DRAWINGS (TYP).

**BUILDING OBC MATRIX** FIRM NAME :

+VG ARCHITECTS CERTIFICATE OF P 50 DALHOUSIE STR N3T 2H8 TEL (519) 754-1652 THE ARCHITECTUR **RESPONSIBLE CO** 

NAME & LOCATION OF PROJECT:

**PROJECT DESCRIPTION:** 

ELEMENTARY SCHOOL PROVIDE BUILDING WITH BARRIER-FREE ACCESIBILI INSTALLING NEW ELEVATOR TO SERVICE ALL LEVELS CREATE NEW ENTRACE LAYOUT AND CANOPY. INCLUDING NEW BARRIER FREE UNIVERSAL WASHR ON LEVEL 2 & 3 OF 1905 ORIGINAL BUILDING. RENOVATE 2 OFFICE ON LEVEL 1. RENOVATE 1 CLASSROOM

PER DIV. B - 11.3.3.1(1) BASIC RENOVATION CONSTRUCTION IS COMPONENTS ARE BEING USED TO INSTALL NEW FINISHES, CEIL CONSTRUCTION, NON-SPRINKLERED AND HAS A FIRE ALARM SY

THE NEW ADDITION & RENOVATION TO EXISTING CONSTRUCTION SEPARATIONS OR THE STRUCTURAL ADEQUACY OR WILL NOT C

ALTERATIONS TO THE EXISTING STRUCTURAL, PLUMBING, SEWER, REQUIREMENTS OF OTHER PARTS OF THE CODE.

PROJECT TYPE:

MAJOR OCCUPANCY CLASSIFICATION: BUILDING AREA (m<sup>2</sup>)

BUILDING HEIGHT:

EXISTING BUILDING CLASSIFICATION:

RENOVATION TYPE:

OCCUPANT LOAD OF RENOVATED AREAS:

PLUMBING FIXTURES: GROUP A, DIVIS

ELEMENTARY SC

BARRIER-FREE DESIGN: ELEVATOR BARRIER-FREE ACCESS WILL BE PROVIDE ALL LEVELS WITH THIS RENOVATION, INCLUDING TWO NEW BARRIER FREE WASHROOM.

REDUCTION IN PERFORMANCE LEVEL:

COMPENSATING CONSTRUCTION:

COMPLIANCE ALTERNATIVES PROPOSED: NON-SPRINKLERED BUILDING:

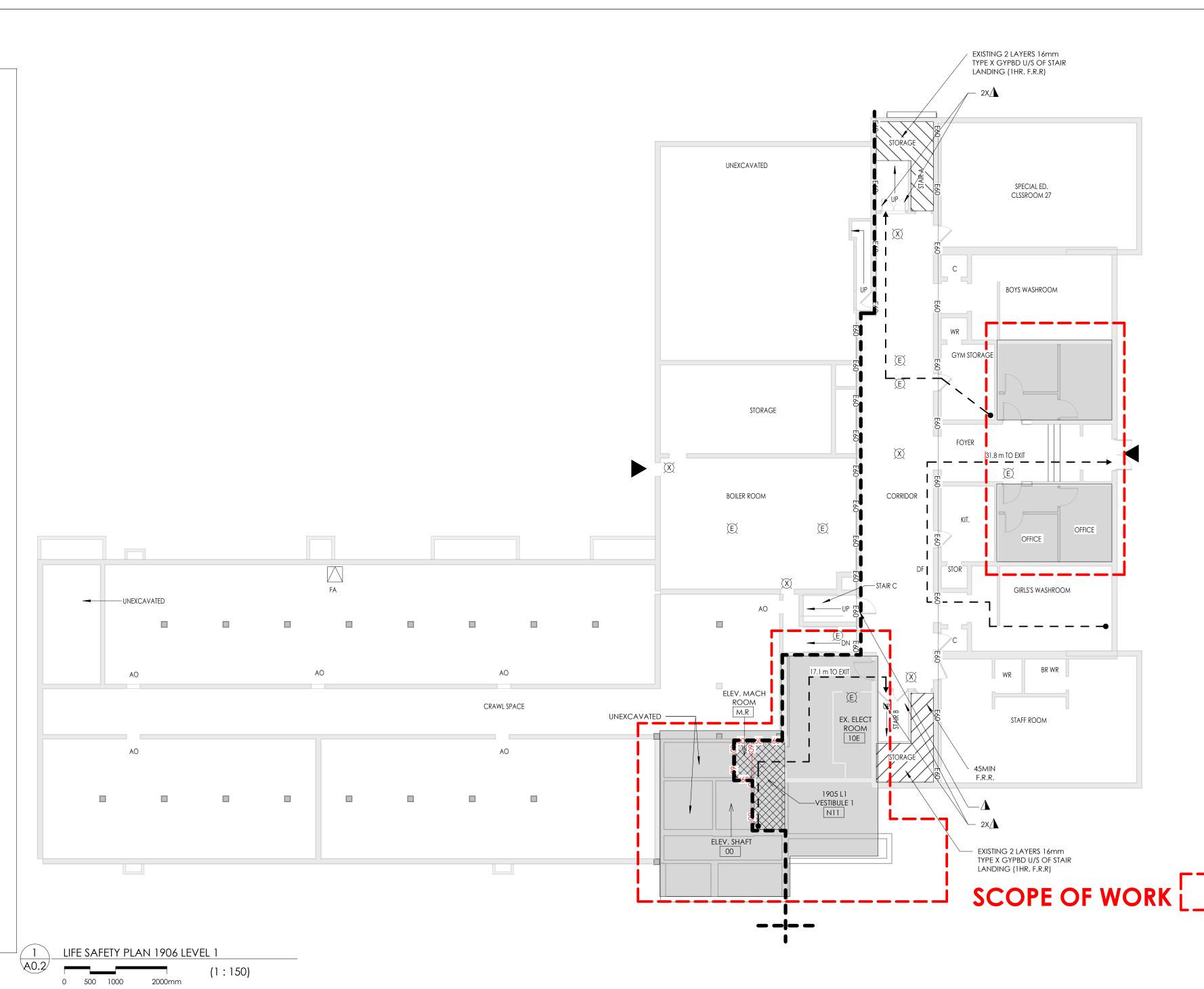
TRAVEL DISTANCE TO EGRESS AND EXIT DOORS:

FIRE SEPARATIONS:

[S		
PRACTIC	CE NUMBER: 3353 RANTFORD, ONTARIO	
	519) 754-0830 M NOTED ABOVE HAS E	XERCISED
	WITH RESPECT TO DESIGNING EDWARD PUBLIC SC	
70	9 KING St W, KITCHENE 2012 OBC, AMENDED JAN. 1ST, 2022	r, ontario n2g 1e3, canada <b>Remarks</b>
LITY BY ELS. ROOMS		EXISTING USE AND CLASSIFICATION: GROUP "A" DIVISION 2 - ELEMENTARY SCHOOL NON-COMBUSTIBLE CONSTRUCTION, 3 STOREYS, NON-SPRINKLERED. ORIGINALLY BUILT IN 1921, WITH AN ADDITION IN 1946 AND 1962. BUILDING AREA: 1695 m <sup>2</sup>
EILINGS, PA	RTITION WALLS AND DOOR A	E EXISTING PERFORMANCE LEVEL OF THE BUILDING. SIMILAR MATERIALS AND SSEMBLIES THROUGHOUT. THE EXISTING BUILDING IS OF NON-COMBUSTIBLE ASE TO THE CURRENT OCCUPANT LOAD.
	NOT ADVERSELY AFFECT THE E N UNHEALTHY ENVIRONMENT	EARLY WARNING AND EVACUATION SYSTEMS, FIRE IN THE BUILDING
R, SPRINKL	er system and alterations	S TO THE EARLY WARNING AND EVACUATION SYSTEMS ARE DESIGNED TO MEET THE
	DIV.B - 3.1.2.1.(1) DIV.A - 1.1.3.1 DIV.A - 1.4.1.2	PART 3 AND PART 11 <ul> <li>EXISTING TO REMAIN</li> <li>NEW</li> <li>ADDITION</li> <li>ALTERATION</li> <li>CHANGE OF USE</li> </ul> A2 - ELEMENTARY SCHOOL         TOTAL BUILDING AREA       1695m <sup>2</sup> ADDITION       25m <sup>2</sup> TOTAL       1720m <sup>2</sup>
	DIV.A - 1.4.1.2 DIV.B - 3.2.1.1	STOREYS ABOVE GRADE: 3 STOREYS BELOW GRADE: 0
	DIV.B - 11.2.1.1. DIV.B - T.11.2.1.1A DIV.B - T.11.2.1.1C DIV.B - 4.1.2.1.(3) TABLE 4.1.2.1.B	CHANGE IN MAJOR ACCUPANCY : NO YES CONSTRUCTION INDEX: 5 HAZARD INDEX: 6 IMPORTANCE CATAGORY: LOW NORMAL MGH POST-DISASTER
	DIV.B - 11.3.3.1 DIV.B - 11.3.3.2	BASIC RENOVATION     EXTENSIVE RENOVATION
	DIV.B - 3.1.17.1(c)	<ul> <li>m/PERSON</li> <li>THE NUMBER OF PERSONS FOR WHICH THE RENOVATED AREA IS DESIGNED REMAINS UNCHANGED.</li> <li>CLASSROOMS</li> <li>EXISTING 11 CLASSROOMSROOMS @25</li> <li>EXISTING SUPPORT STAFF (INCL. TEACHER)</li> <li>SUPPORT STAFF (INCL. TEACHER)</li> </ul>
ISION 2 CHOOL	DIV.B - 3.7.4.3 (14)	EXISTING TOTAL OCCUPANCY LOAD     435       EXISTING FIXTURES:     MALE:     9       MALE:     9       FEMALE:     10       UNIVERSAL WR:     1       TOTAL     20       DEDICATED STAFF WC:     6
		DEDICATED KINDERGARNTEN WC:       4         EXISTING TOTAL COUNT       30 WC (INCLUDING 5 BF. WR.)         NEW B.F. WASHROOMS:       2         MALE/FEMALE       2         TOTAL       2         FUTURE TOTAL COUNT       32 WC
	DIV.B - 3.8	YES (FOR NEW RENOVATED AREAS) ON (EXPLAIN)
ded to Ee		
	DIV.B - 11.4.2 DIV.B - 11.4.2.1 DIV.B - 11.4.2.2 DIV.B - 11.4.2.3 DIV.B - 11.4.2.4 DIV.B - 11.4.2.5 DIV.B - 11.4.2.6 DIV.B - 11.4.3 DIV.B - 11.4.3.2 DIV.B - 11.4.3.3	STRUCTURAL       YES       NO         INCREASE IN OCCUP. LOAD       YES       NO         CHANGE OF MAJOR OCCUP.       YES       NO         PLUMBING       YES       NO         SEWAGE SYSTEM       YES       NO         EXTENSION OF COMB. CONSTRUCTION       YES       NO         STRUCTURAL       YES       NO         FOR NEW OPENINGS TO BE PROVIDED & EXISTING OPENINGS       ARE TO BE FILLED IN THE EXISTING STRUCTURE.       NO         INCREASE IN OCCUP. LOAD       YES       NO
	DIV.B - 11.4.3.4 DIV.B - 11.4.3.5 DIV.B - 11.4.3.6 DIV.B - 11.4.3.7	CHANGE OF MAJOR OCCUP. YES V NO PLUMBING YES V NO SEWAGE SYSTEM YES V NO NO INCREASE IN OCCUPANT LOAD OR FIXTURE COUNT. EXTENSION OF COMB. CONSTRUCTION V YES NO
	DIV.B - 11.5.1.	YES Y NO
	DIV.B - 3.3.1.5(1)(c)	EGRESS DOORS: (TYPICAL CLASSROOM) SINGLE EGRESS DOOR FROM ROOM OR SUITE: MAX. TRAVEL DISTANCE = 15m, MAX. AREA = 150m <sup>2</sup> EGRESS DOORS: (HAZARDOUS CLASSROOM)
	DIV.B - 3.3.1.5(1)(e)	EGRESS DOORS: (HAZARDOUS CLASSROOM) SINGLE EGRESS DOOR FROM ROOM OR SUITE: MAX. AREA = 100m <sup>2</sup> MORE THAN ONE EGRESS DOOR FROM ROOM OR SUITE:
		MAX. TRAVEL DISTANCE = 30m
	DIV.B - 3.4.2.1.(2)(a) TABLE 3.4.2.1.A DIV.B - 3.4.2.5(1)(f)	MORE THAN ONE EXIT DOOR REQUIRED MAX. TRAVEL DISTANCE = 15m, MARX. AREA = 150m <sup>2</sup> LOCATION OF EXITS: (NON-SPRINKLERED) MAX. TRAVEL DISTANCE = 30m
	DIV.B - 3.3.2.5.(1) DIV.B - 3.3.2.5.(4) DIV.B - 3.4.4.1.(1)	CORRIDOR WALL - <b>1hr.</b> RFS (if T.D. >30m) CORRIDOR WALL - <b>FS</b> not required ( if T.D. <30m) EXIT WALL - <b>1hr.</b> RFS

**Revision Schedule** Date Particular ISSUED FOR 03/06/2023 COORDINATION ISSUED FOR 98% SET 11/29/2022 ISSUED FOR TENDER & 04/05/2023 PERMIT ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS. ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5 **PROJECT**: 22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 36" TD LTD HITE TIN GROU LICENCE 6439 RCH E VENTIN CHEDUL THE 4 S ROOF 2 0 0 A0.1

Δ	HOLD-OPEN DEVICES
X	EXIT LIGHTING
E	EMERGENCY LIGHTING
EXIT 4	EXIT NUMBER
6060-	— 1 HR. FIRE SEPARATION RATING
	TRAVEL DISTANCE IN METERS
$\underset{\longleftarrow}{\longleftarrow}$	EXIT LIGHT W/ DIRECTIONAL ARROW COORD W/ ELECT DWG'S
	EXIT DOORS
Ġ.	POWER DOOR OPERATOR
BF	PUSH BUTTON FOR POWER DOOR OPERATOR
ALL PARTITIONS F & SMOKE SEALED	FIRE EXTINGUISHER / FIRE EXTINGUISHER & CABINET (1500mm MAX. A/F/F TO TOP OF EXTINGUISHER FOR UNDER 18KG'S) (1100mm MAX A/F/F TO TOP OF EXTINGUISHER OVER 18KG.'S NOT EQUIP.'D W/ WHEELS) VERIFY W/ LOCAL AUTHORITES) <b>(TENT OF FIRE STOPPING:</b> ORMING PART OF A FIRE SEPARATION SHALL BE COMPLETELY FIRE STOPPED D. THIS INCLUDES ALL CORRIDOR WALLS AS WELL AS THE RATED FIRE
HEIGHT PARTITION PACKED. THIS IN	DIED ABOVE INCLUDING 0 HR. FIRE SEPARATION RATINGS. ALL OTHER FULL NS NEED NOT BE FIRE STOPPED BUT SHALL HAVE MINERAL WOOL TIGHTLY CLUDES ALL (FULL HEIGHT) MASONRY AND GYPSUM BOARD WALLS. PPING IN ROOF STRUCTURE.
COORD. W/ <b>A4</b> [	DWG.'S FOR TYPICAL FIRE STOPPING& ACOUSTICAL SEALING DETAILS.
REFER TO A4 SERI CONTRACTOR TO	5 MUST BE REFERRED TO FOR LOCATIONS OF REQUIRED FIRE SEPARATIONS & ES DRAWINGS FOR TYPICAL FIRE AND SOUND STOPPING DETAILS. GENERAL O COORDINATE WITH MECHANICAL DRAWINGS AND ALLOW FOR ANY FIRE DAMPERS NOT SHOWN FOR NOTED FIRE SEPARATION REQUIREMENTS.
FP	APPLY INTUMESCENT FIREPROOFING WITH COLOUR TOP COAT FINISH TO EXPOSED SECTIONS OF THE STEEL LINTELS SUPPORTING OPENINGS IN LOAD BEARING WALLS OVER 2000mm WIDE OR OPENINGS IN NON-LOADBEARING WALLS OVER 3000mm WIDE. REFER TO O.B.C. SECTION 3.2.2.3 SECTIONS OF THESE LINTELS THAT ARE NOT WHOLLY OR PARTIALLY EXPOSED THAT FALL IN THE SAME CATEGORY AS MENTIONED ABOVE SHALL BE COVERED WITH SOLID CONCRETE BLOCK OR SPRAY-ON FIRE PROOFING.
NOTES	
• MIN. HEADRM	A. CLEARANCE 2.1m IN EVERY ACCESS TO EXIT REQ.'D 3.3.1.8
	E ALL NEW EXIT LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS.



## ABBREVATION

AO	ACCESS OPENING
BFWR	BARRIER FREE WASHROOM

- BFWR BARRIER FREE WASHROO C CUSTODIAN DF DRINKING FOUNTAIN FA FLOOR ACCESS EL ELECTRICAL ROOM KIT KITCHEN STOR STORAGE WR WASHROOM GUID GUIDANCE

EXTENTS OF 1HR. FLOOR ASSEMBLY RATING COORD. W/ OBC MATRIX FOR ASSEMBLY RATING DESIGN

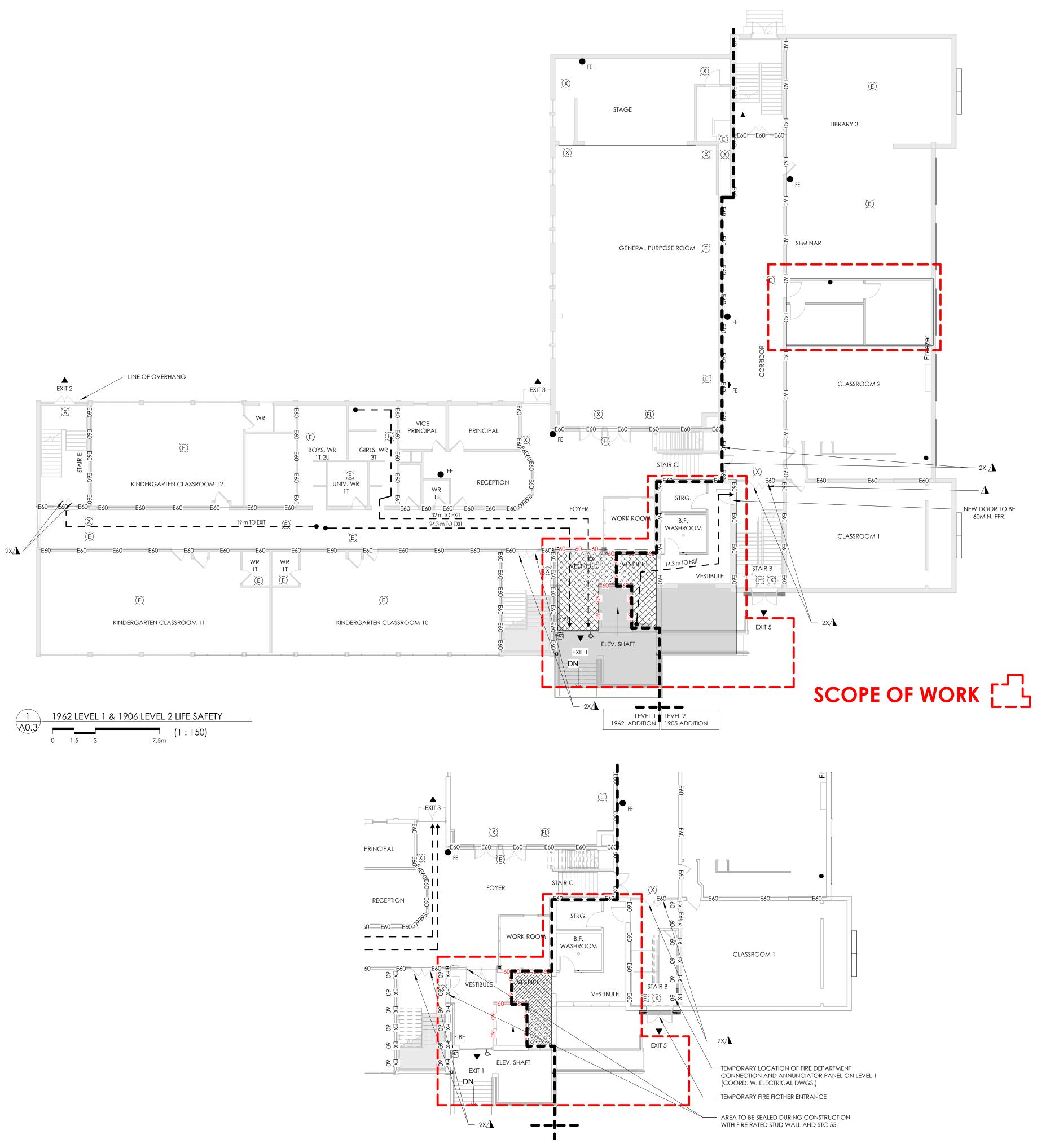
Revis	sion Sch	edule <sub>Date</sub>	No.	
IS	ssued for Rdination	03/06/2023	1	
ISSUED FO	or 98% set	11/29/2022	2	t be
ALL DIMENSIONS EXISTING BUILDIN APPROXIMATE A ON SITE BEFORE ALL EXISTING WA	NG ELEMENT AND MUST BE CONSTRUC ALL DIMENSI	o and from 'S are E confirmed Tion starts. Ons are		All dimensions and measurements must checked and verified by the General roup. Contractor
APROXIMATE AN OF THE CONTRA BEFORE CONSTR MEASURE AND C WINDOWS, CUR OPENINGS REQU RENOVATION BE ASSEMBLING	CTOR TO SIT RUCTION OR COFIRM NEV TAINWALLS UIRED FOR TI	te verify 2 demolition. v doors, and screens his		Reproduction of drawings and related documents in whole or in part is forbidden without written permission of The Ventin Gr
$\langle \rangle$	ATERLO SICT SCH	O REGION OOL BOR	}	
CLIENT WATERLC SCHOOL AVENUE, N2C 2R5 PROJECT: 22059 KING EDV ADDITION 709 KING KITCHENE N2G 1E3 ORIGINAL PAG	BOARD KITCHEI WARD P N STREET ER, ON	9, 51 ARDI NER, ONT S ELEVAT	OR	
RCHITECTS IE VENTIN GROUP LTD	ARCHI O ARCHI PAUL JOHN	SSOCIAL TECTS Z SAPOUNZI 39		
			)	LIFE SAFETY PLAN 1906 LEVEL
				<u>.</u>

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٨	HOLD-OPEN DEVICES
~	EXIT LIGHTING
(x)	
Ē	EMERGENCY LIGHTING
EXIT 4	EXIT NUMBER
-6060	1 HR. FIRE SEPARATION RATING
	TRAVEL DISTANCE IN METERS
$\underset{\longleftarrow}{\longleftarrow}$	EXIT LIGHT W/ DIRECTIONAL ARROW COORD W/ ELECT DWG'S
	exit doors
ර්.	POWER DOOR OPERATOR
BF	PUSH BUTTON FOR POWER DOOR OPERATOR
OFEC / FE	FIRE EXTINGUISHER / FIRE EXTINGUISHER & CABINET (1500mm MAX. A/F/F TO TOP OF EXTINGUISHER FOR UNDER 18KG'S) (1100mm MAX A/F/F TO TOP OF EXTINGUISHER OVER 18KG.'S NOT EQUIP.'D W/ WHEELS) VERIFY W/ LOCAL AUTHORITES)
LL PARTITIONS FOI SMOKE SEALED. EPARATIONS NOTE EIGHT PARTITIONS ACKED. THIS INCL	ENT OF FIRE STOPPING: RMING PART OF A FIRE SEPARATION SHALL BE COMPLETELY FIRE STOPPED THIS INCLUDES ALL CORRIDOR WALLS AS WELL AS THE RATED FIRE ED ABOVE INCLUDING 0 HR. FIRE SEPARATION RATINGS. ALL OTHER FULL NEED NOT BE FIRE STOPPED BUT SHALL HAVE MINERAL WOOL TIGHTLY JUDES ALL (FULL HEIGHT) MASONRY AND GYPSUM BOARD WALLS. PING IN ROOF STRUCTURE.
oord. W/ <b>A4</b> DW	G.'S FOR TYPICAL FIRE STOPPING& ACOUSTICAL SEALING DETAILS.
EFER TO A4 SERIES ONTRACTOR TO C	AUST BE REFERRED TO FOR LOCATIONS OF REQUIRED FIRE SEPARATIONS & DRAWINGS FOR TYPICAL FIRE AND SOUND STOPPING DETAILS. GENERAL COORDINATE WITH MECHANICAL DRAWINGS AND ALLOW FOR ANY RE DAMPERS NOT SHOWN FOR NOTED FIRE SEPARATION REQUIREMENTS.
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NOTES	
	CLEARANCE 2.1m IN EVERY ACCESS TO EXIT REQ.'D 3.3.1.8
COORDINATE A	ALL NEW EXIT LIGHT LOCATIONS WITH ELECTRICAL DRAWINGS.
HATCH ID	ENTIFICATION MARKER LEGEND
	EXTENTS OF 1HR. FLOOR ASSEMBLY RATING

### ABBREVATION

- AO ACCESS OPENING BFWR BARRIER FREE WASHROOM C CUSTODIAN
- DF DRINKING FOUNTAIN
- FA FLOOR ACCESS EL ELECTRICAL ROOM
- KIT KITCHEN STOR STORAGE WR WASHROOM GUID GUIDANCE

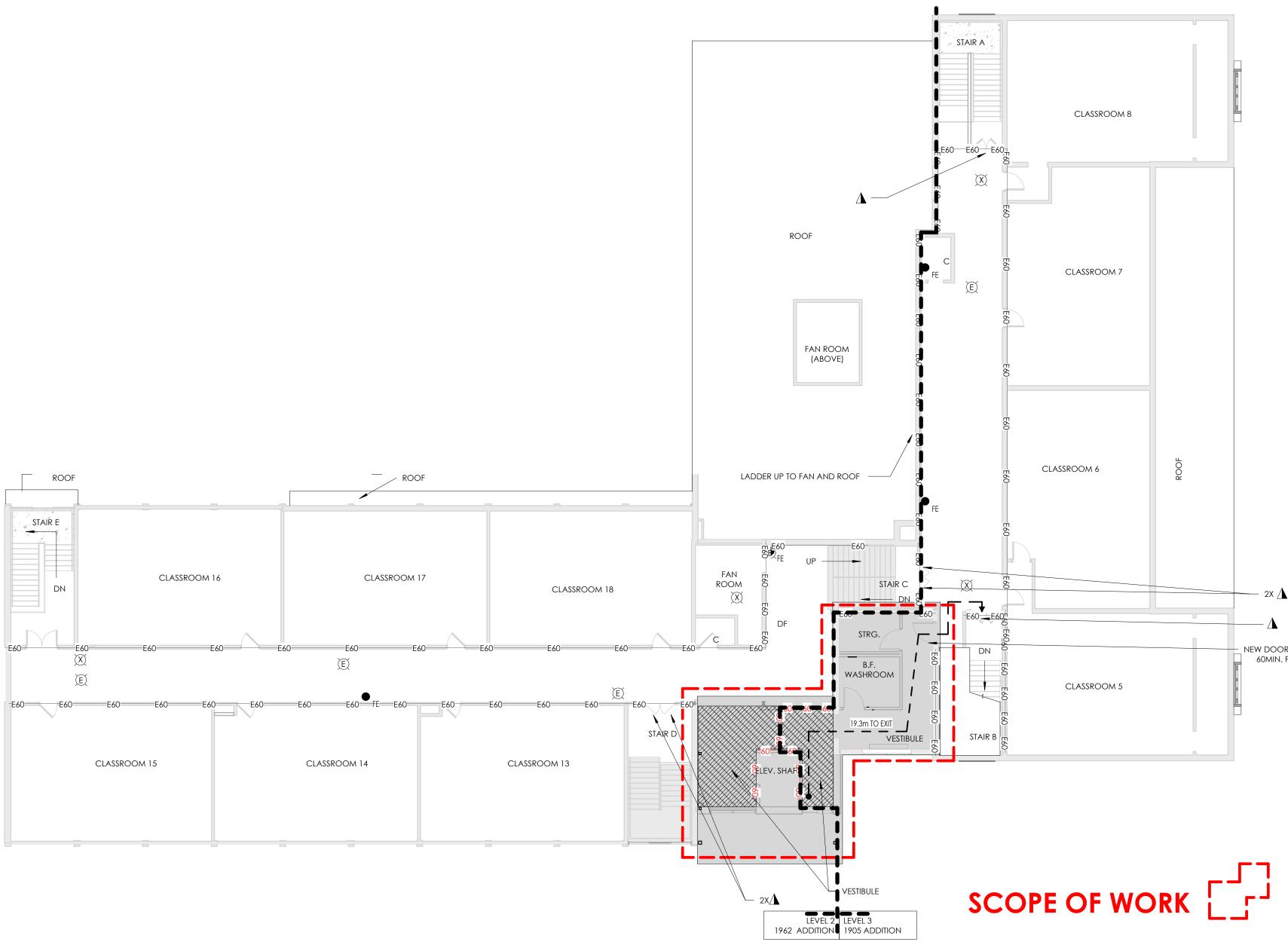


(1)	19	62 LE\	VEL 1	& 1906 LEVEL 2 LIFE SAFETY
A0.3	0	1.5	3	(1:150) 7.5m



	Rev Partic	vision Scł ular	nedule Date	No.	
			R 03/06/2023		
			T 11/29/2022 & 04/05/2023		nust be
EXISTIN APPRC ON SITE ALL EXI APROX OF THE BEFORI MEASU WINDC OPENIN	G BUILE XIMATE E BEFOR STING V IMATE , CONTR E CONS RE ANE WS, CU NGS RE (ATION	DING ELEMEN E AND MUST I RE CONSTRUC WALL DIMENS AND IS THE R RACTOR TO S STRUCTION O D COFIRM NE	BE CONFIRME CTION STARTS. SIONS ARE ESPONSABILIT SITE VERIFY R DEMOLITION W DOORS, S AND SCREEN THIS	D Y N.	Reproduction of drawings and related All dimensions and measurements must documents in whole or in part is forbidden checked and verified by the General without written permission of The Ventin Group.
SCI AV N20 PRO 220 KIN AD 709 KIT0 N20	NT JERL HOO ENUE 2 2R JECT 059 G EE DITIC CHEN G 1E	OO REG L BOARI 5, KITCHE 5 WARD F N G STREET VER, ON 3	GION DIST D, 51 ARE ENER, ON	Delt Tari Tor	
ARCHITECTS	THE VENTIN GROUP LTD	í.	ASSOCIATION OF OF HITECTS 2 HIM SAPOUNZI CENCE 6439 CCN		LIFE SAFETY PLAN 1962 LEVEL1 & 1906 LEVEL 2 2023-04-05 11:25:17 AM
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HOLD-OPEN DEVICES				
$\mathbf{\tilde{x}}$	EXIT LIGHTING			
E	EMERGENCY LIGHTING			
EXIT 4 EXIT NUMBER				
6060				
	TRAVEL DISTANCE IN METERS			
	EXIT LIGHT W/ DIRECTIONAL ARROW COORD W/ ELECT DWG'S			
	EXIT DOORS			
Ġ.	POWER DOOR OPERATOR			
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NOTES				
• MIN. HEADRA	A. CLEARANCE 2.1m IN EVERY ACCESS TO EXIT REQ.'D 3.3.1.8			





# 1962 LEVEL 2 & 1906 LEVEL 3 FLOOR PLAN LIFE SAFETY 0 1.5 3 7.5m (1:150)

## ABBREVATION

AO	ACCESS OPENING
BFWR	BARRIER FREE WASHROOM
С	CUSTODIAN

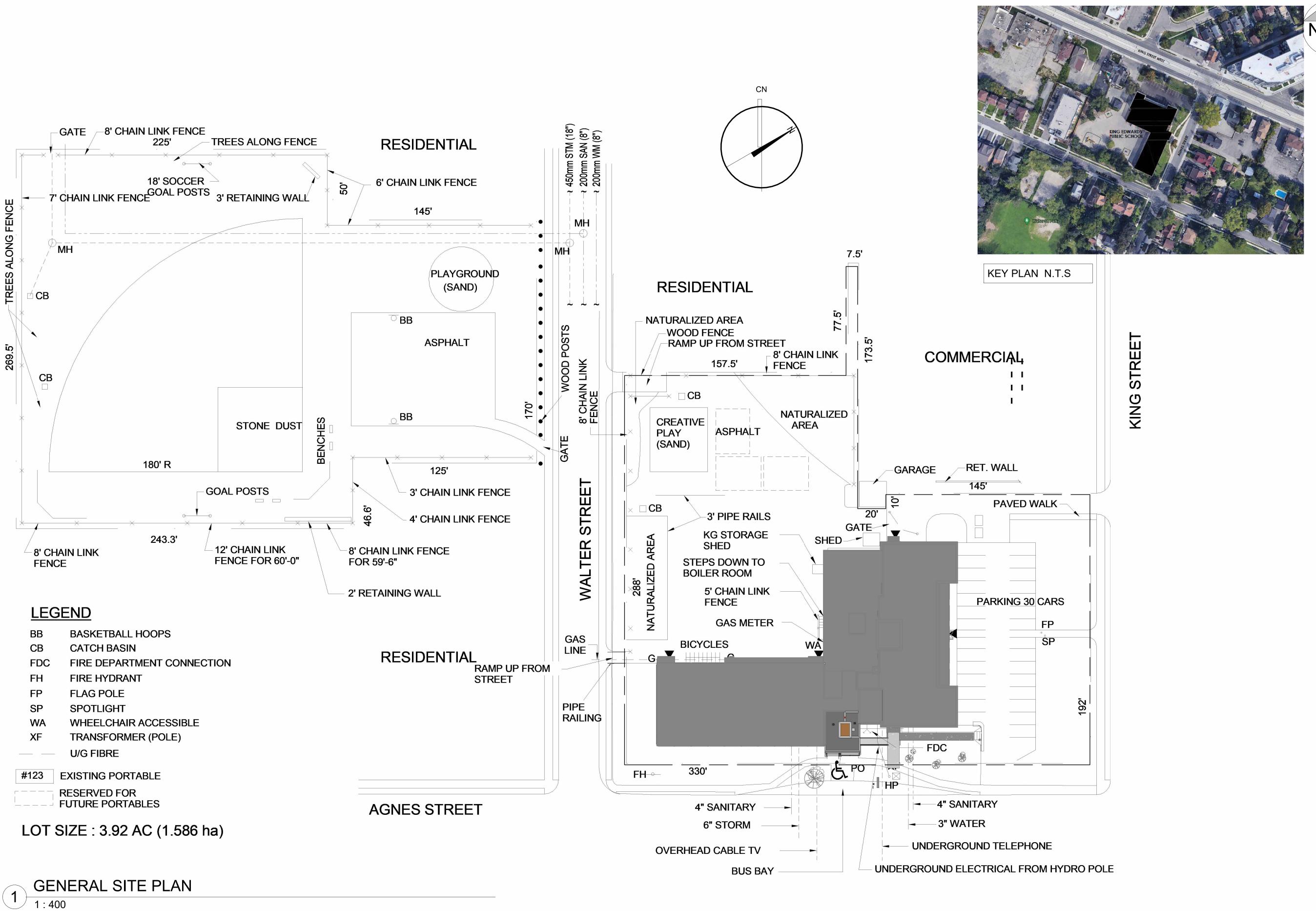
EXTENTS OF 1HR. FLOOR ASSEMBLY RATING COORD. W/ OBC MATRIX FOR ASSEMBLY RATING DESIGN

- DF DRINKING FOUNTAIN FA FLOOR ACCESS EL ELECTRICAL ROOM
- KIT KITCHEN STOR STORAGE WR WASHROOM GUID GUIDANCE

— 2X 🛆 NEW DOOR TO BE 60MIN. FFR.

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MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING



# CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

**PROJECT:** 

22059

KING EDWARD PS ELEVATOR ADDITION

709 KING STREET WEST, KITCHENER, ON N2G 1E3

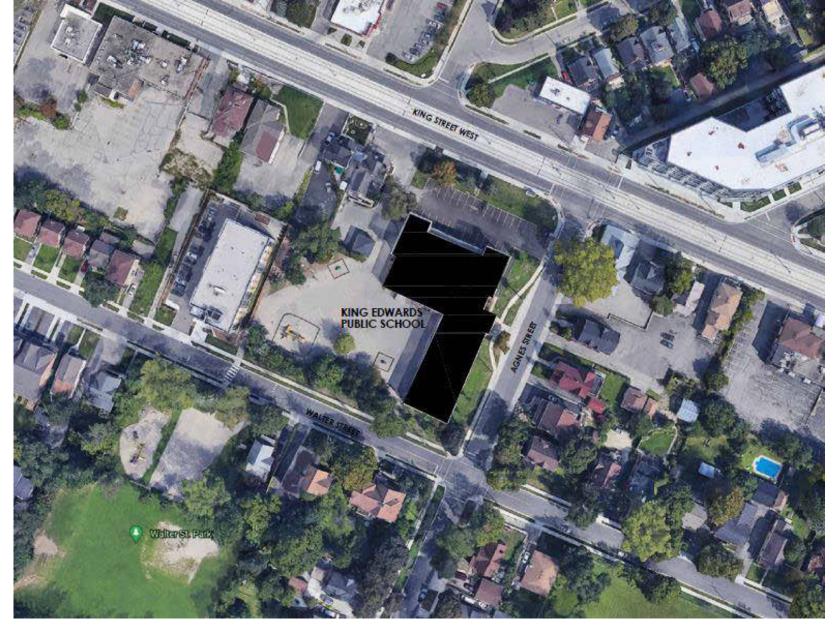
ORIGINAL PAGE SIZE ARCH D - 24" X 36"

# SITE PLAN PROVIDED FOR REFERENCE ONLY

EXISTING SITE PLAN

A1





KEY PLAN N.T.S

GENERAL NOTES:

1. ALL WORK TO CONFORM TO THE CURRENT 2012 ONTARIO BUILDING CODE, AS CURRENTLY AMENDED JANUARY 1, 2022. 2. ALL CRITICAL BARRIER FREE DIM.'S TO COMPLY W/ OBC & ANY APPLICABLE ACCESSIBILITY BY-LAWS OF THAT SPECIFIC REGION. O.B.C. BARRIER FREE REQ.'S ARE TO BE REVIEWED & CONFIRMED BY THE GENERAL CONTRACTOR ON SITE THAT ALL DIM.'S & MIN. CLEARANCES ARE PROVIDED. INFORM THE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLING WORK & OBTAIN SUPPLEMENTAL INSTRUCTIONS FROM THE ARCHITECT BEFORE PROCEEDING W/ ANY PART OF THE AFFECTED WORK.

### BARRIER-FREE DOORS & DOORWAYS:

OBC 3.8.3.3 - DIMENSIONS: EVERY DOORWAY THAT IS LOCATED IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A MINIMUM CLEAR WIDTH OF NOT LESS THAN 860mm WHEN THE DOOR IS IN THE OPEN POSITION (PROVIDE STD. DOOR LEAF OF NOT LESS THAN 1020mm, SMALLER WHERE NOT ABLE). UNLESS EQUIPPED W/ A POWER DOOR OPERATOR, A DOOR IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A CLEAR SPACE ON THE LATCH SIDE EXTENDING THE HEIGHT OF THE DOORWAY & NOT LESS THAN 650mm BEYOND THE EDGE OF THE DOOR OPENING IF THE DOOR SWINGS TOWARD THE APPROACH SIDE & 350mm BEYOND THE EDGE IF THE DOOR SWINGS AWAY FROM THE APPROACH SIDE.

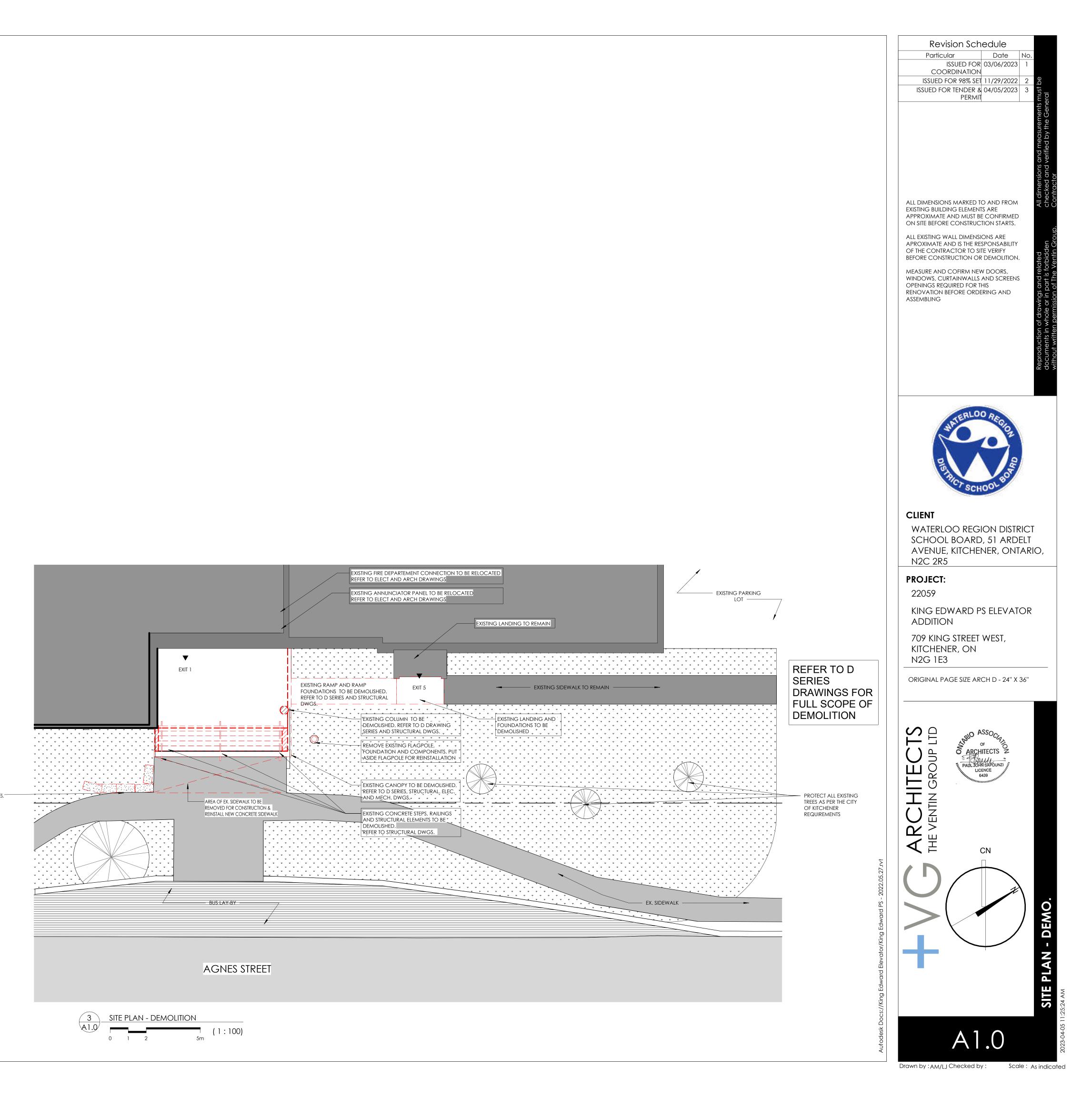
**POWER DOOR OPERATORS:** EVERY DOOR THAT PROVIDES A BARRIER-FREE PATH OF TRAVEL THROUGH AN ENTRANCE SHALL BE EQUIPPED W/ A POWER DOOR OPERATOR. WHERE AN ENTRANCE INCORPORATES A VESTIBULE, A DOOR LEADING FROM THE VESTIBULE INTO THE FLOOR AREA SHALL BE EQUIPPED W/ A POWER DOOR OPERATOR.

THE CONTROL FOR A POWER DOOR OPERATOR SHALL HAVE NO FACE DIMENSION LESS THAN 150mm DIAMETER, 50 mm BY 100 MM IF RECTANGULAR, HAVE ITS CENTER LOCATED NO LESS THAN 900 mm A/F/F AND NO MORE THAN 1100mm A/F/F, BE LOCATED NOT LESS THAN 600mm MIN. & NOT MORE THAN 1500mm BEYOND THE DOOR SWING WHERE THE DOOR OPENS TOWARDS THE CONTROL & CONTAIN THE SIGN INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHEN THE DOOR OPENS INTO THE ADJACENT ROOM, THE CONTROL ON THAT SIDE OF THE DOOR SHALL BE LOCATED NOT LESS THAN 310mm FROM THE DOOR FRAME TO THE CLOSEST EDGE OF THE BOTTOM. DOOR OPENING DEVICES THAT ARE THE ONLY MEANS OF OPERATION SHALL BE OF A DESIGN THAT DOES NOT REQUIRE TIGHT GRASPING & TWISTING OF THE WRIST.

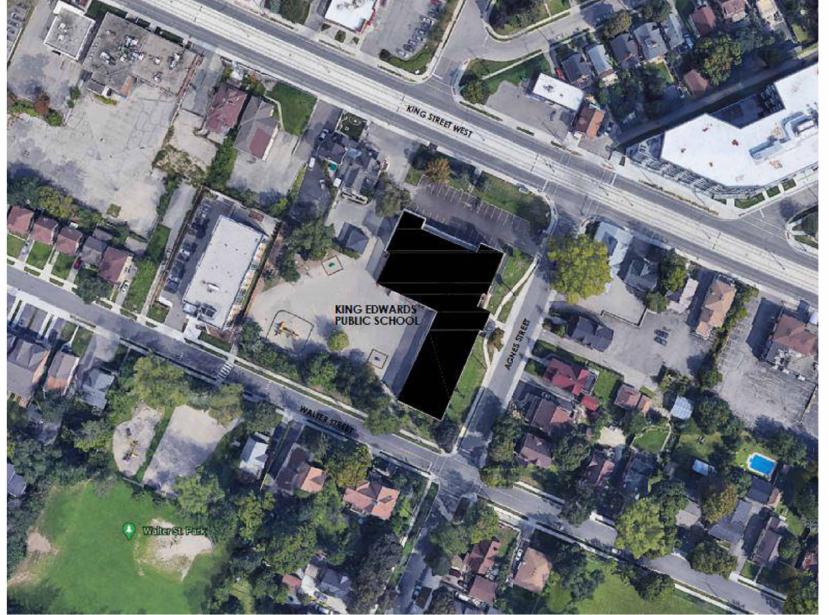
VISION STRIPS, 3.8.3.3(15): ALL DOORS IN A BARRIER-FREE PATH OF TRAVEL CONSISTING OF A SHEET OF GLASS SHALL BE MARKED W/ A CONT. OPAQUE STRIP THAT SHALL BE COLOUR & BRIGHTNESS CONTRASTED TO THE BACKGROUND OF THE DOOR, SHALL BE AT LEAST 50mm WIDE, SHALL BE LOCATED ACROSS THE WIDTH OF THE DOOR @ A HEIGHT OF 1350mm TO 1500mm A/F/F. (ACCESSIBILITY BY-LAWS OF THAT SPECIFIC REGION MAY REQUIRE TWO VISION STRIPS).

DISCLAIMER:

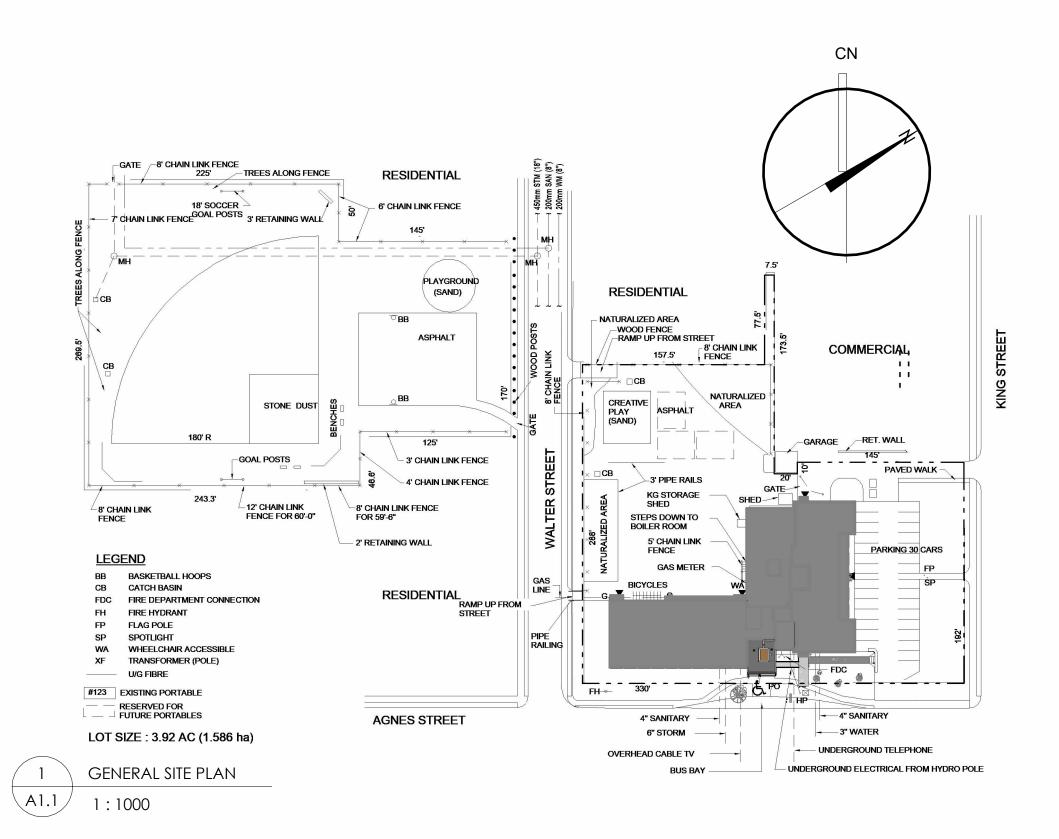
ALL EXISTING SITE PLAN INFORMATION WAS PROVIDED BY THE WATERLOO REGION DISCTRICT SCHOOL BOARD: PROJECT No. 17219, PLAN NO. MCD-2856, DATED September 26,2017







KEY PLAN N.T.S



### **GENERAL NOTES:**

1. ALL WORK TO CONFORM TO THE CURRENT 2012 ONTARIO BUILDING CODE, AS CURRENTLY AMENDED JANUARY 1, 2022. 2. ALL CRITICAL BARRIER FREE DIM.'S TO COMPLY W/ OBC & ANY APPLICABLE ACCESSIBILITY BY-LAWS OF THAT SPECIFIC REGION. O.B.C. BARRIER FREE REQ.'S ARE TO BE REVIEWED & CONFIRMED BY THE GENERAL CONTRACTOR ON SITE THAT ALL DIM.'S & MIN. CLEARANCES ARE PROVIDED. INFORM THE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLING WORK & OBTAIN SUPPLEMENTAL INSTRUCTIONS FROM THE ARCHITECT BEFORE PROCEEDING W/ ANY PART OF THE AFFECTED WORK.

BARRIER-FREE DOORS & DOORWAYS: OBC 3.8.3.3 - DIMENSIONS: EVERY DOORWAY THAT IS LOCATED IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A MINIMUM CLEAR WIDTH OF NOT LESS THAN 860mm WHEN THE DOOR IS IN THE OPEN POSITION (PROVIDE STD. DOOR LEAF OF NOT LESS THAN 1020mm, SMALLER WHERE NOT ABLE). UNLESS EQUIPPED W/ A POWER DOOR OPERATOR, A DOOR IN A BARRIER-FREE PATH OF TRAVEL SHALL HAVE A CLEAR SPACE ON THE LATCH SIDE EXTENDING THE HEIGHT OF THE DOORWAY & NOT LESS THAN 650mm BEYOND THE EDGE OF THE DOOR OPENING IF THE DOOR SWINGS TOWARD THE APPROACH SIDE & 350mm BEYOND THE EDGE IF THE DOOR SWINGS AWAY FROM THE APPROACH SIDE.

POWER DOOR OPERATORS: EVERY DOOR THAT PROVIDES A BARRIER-FREE PATH OF TRAVEL THROUGH AN ENTRANCE SHALL BE EQUIPPED W/ A POWER DOOR OPERATOR. WHERE AN ENTRANCE INCORPORATES A VESTIBULE, A DOOR LEADING FROM THE VESTIBULE INTO THE FLOOR AREA SHALL BE EQUIPPED W/ A POWER DOOR OPERATOR. THE CONTROL FOR A POWER DOOR OPERATOR SHALL HAVE NO FACE DIMENSION LESS THAN 150mm DIAMETER, 50 mm BY 100 MM IF RECTANGULAR,

HAVE ITS CENTER LOCATED NO LESS THAN 900 mm A/F/F AND NO MORE THAN 1100mm A/F/F, BE LOCATED NOT LESS THAN 600mm MIN. & NOT MORE THAN 1500mm BEYOND THE DOOR SWING WHERE THE DOOR OPENS TOWARDS THE CONTROL & CONTAIN THE SIGN INCORPORATING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHEN THE DOOR OPENS INTO THE ADJACENT ROOM, THE CONTROL ON THAT SIDE OF THE DOOR SHALL BE LOCATED NOT LESS THAN 310mm FROM THE DOOR FRAME TO THE CLOSEST EDGE OF THE BOTTOM. DOOR OPENING DEVICES THAT ARE THE ONLY MEANS OF OPERATION SHALL BE OF A DESIGN THAT DOES NOT REQUIRE TIGHT GRASPING & TWISTING OF THE WRIST.

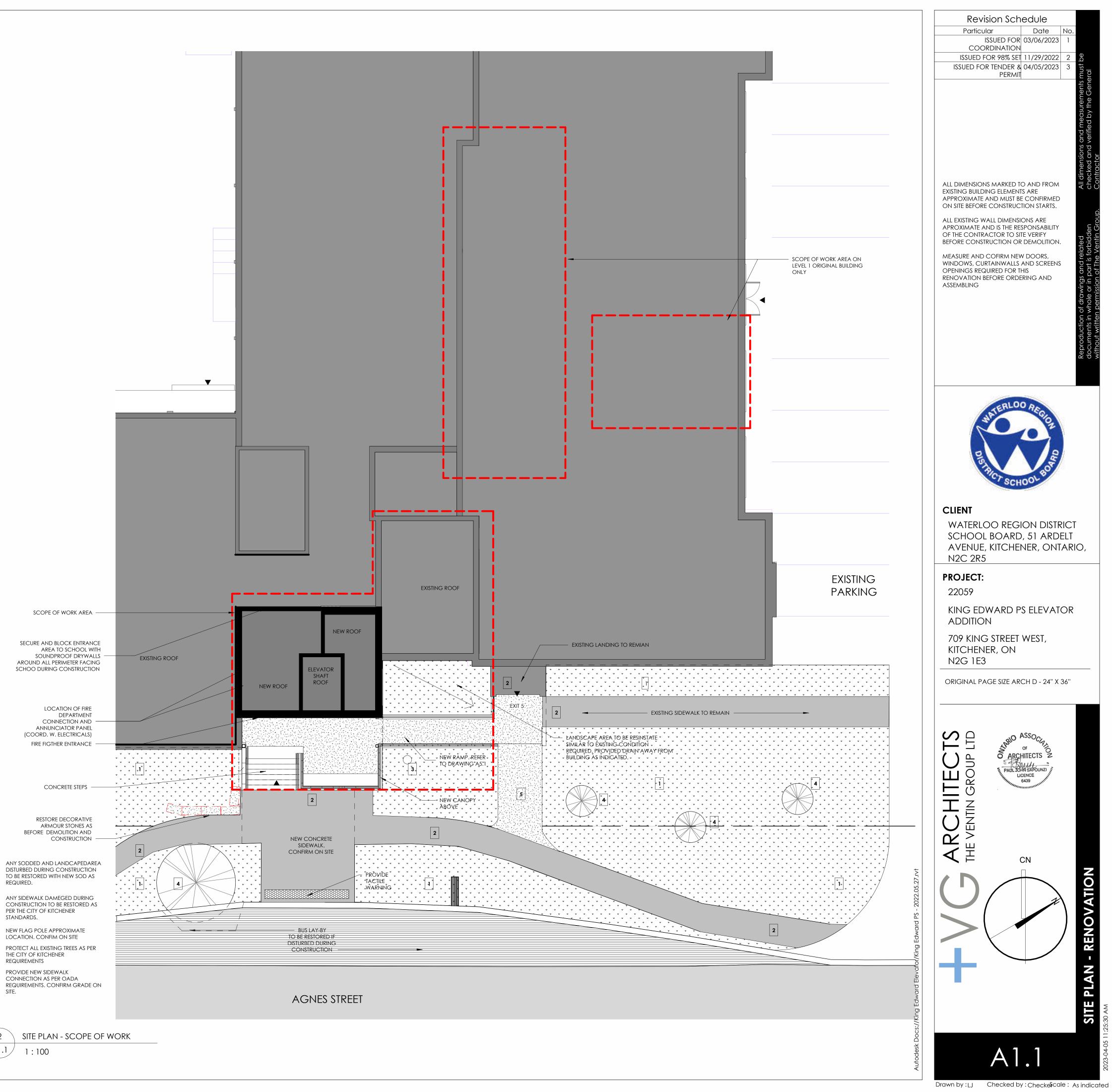
### VISION STRIPS, 3.8.3.3(15):

ALL DOORS IN A BARRIER-FREE PATH OF TRAVEL CONSISTING OF A SHEET OF GLASS SHALL BE MARKED W/ A CONT. OPAQUE STRIP THAT SHALL BE COLOUR & BRIGHTNESS CONTRASTED TO THE BACKGROUND OF THE DOOR, SHALL BE AT LEAST 50mm WIDE, SHALL BE LOCATED ACROSS THE WIDTH OF THE DOOR @ A HEIGHT OF 1350mm TO 1500mm A/F/F. (ACCESSIBILITY BY-LAWS OF THAT SPECIFIC REGION MAY REQUIRE TWO VISION STRIPS).

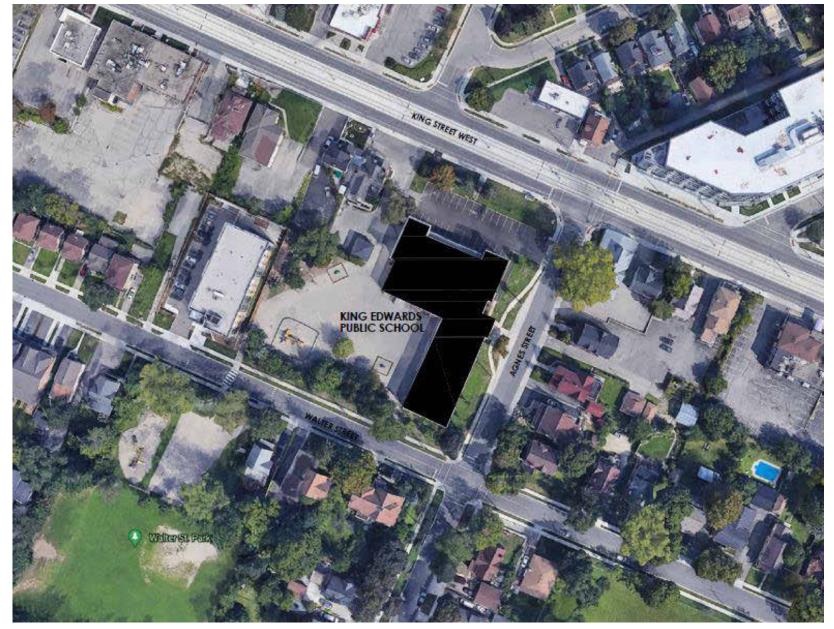
DISCLAIMER: ALL EXISTING SITE PLAN INFORMATION WAS PROVIDED BY THE WATERLOO REGION DISCTRICT SCHOOL BOARD: PROJECT No. 17219, PLAN NO. MCD-2856, DATED September 26,2017



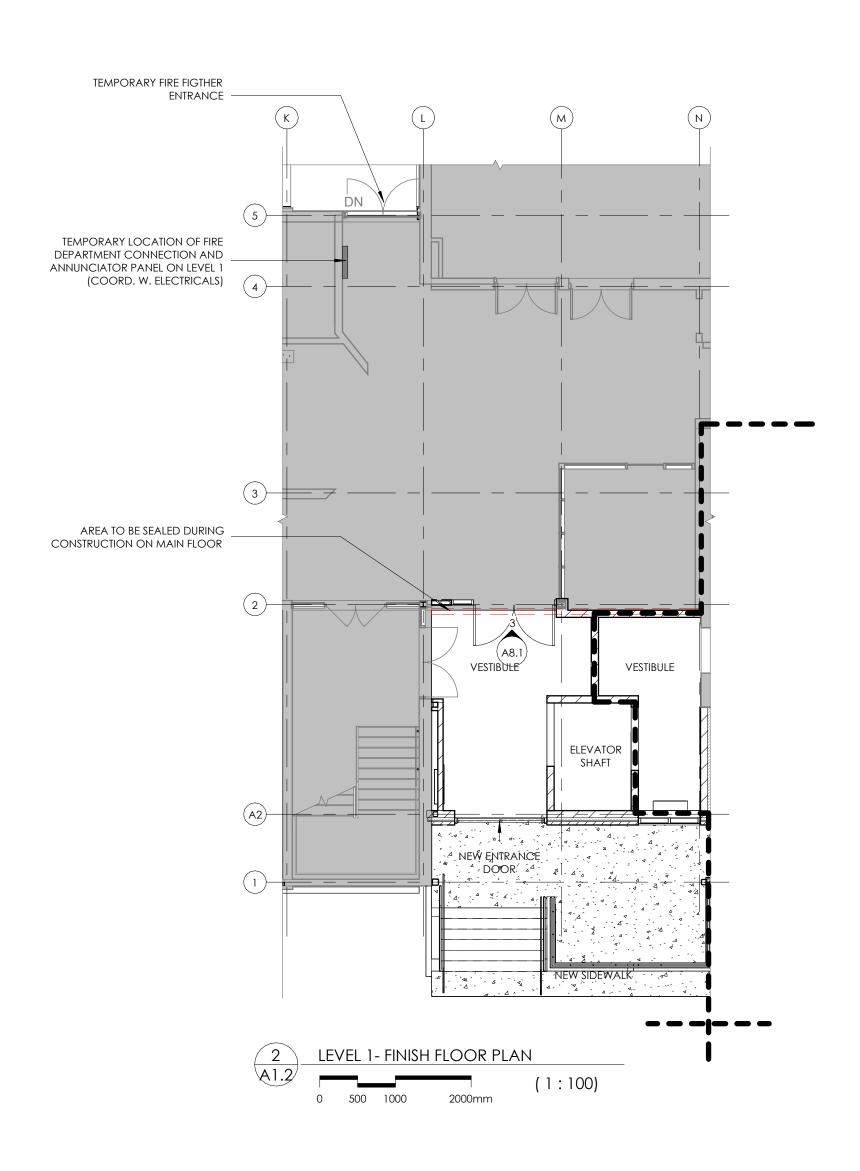


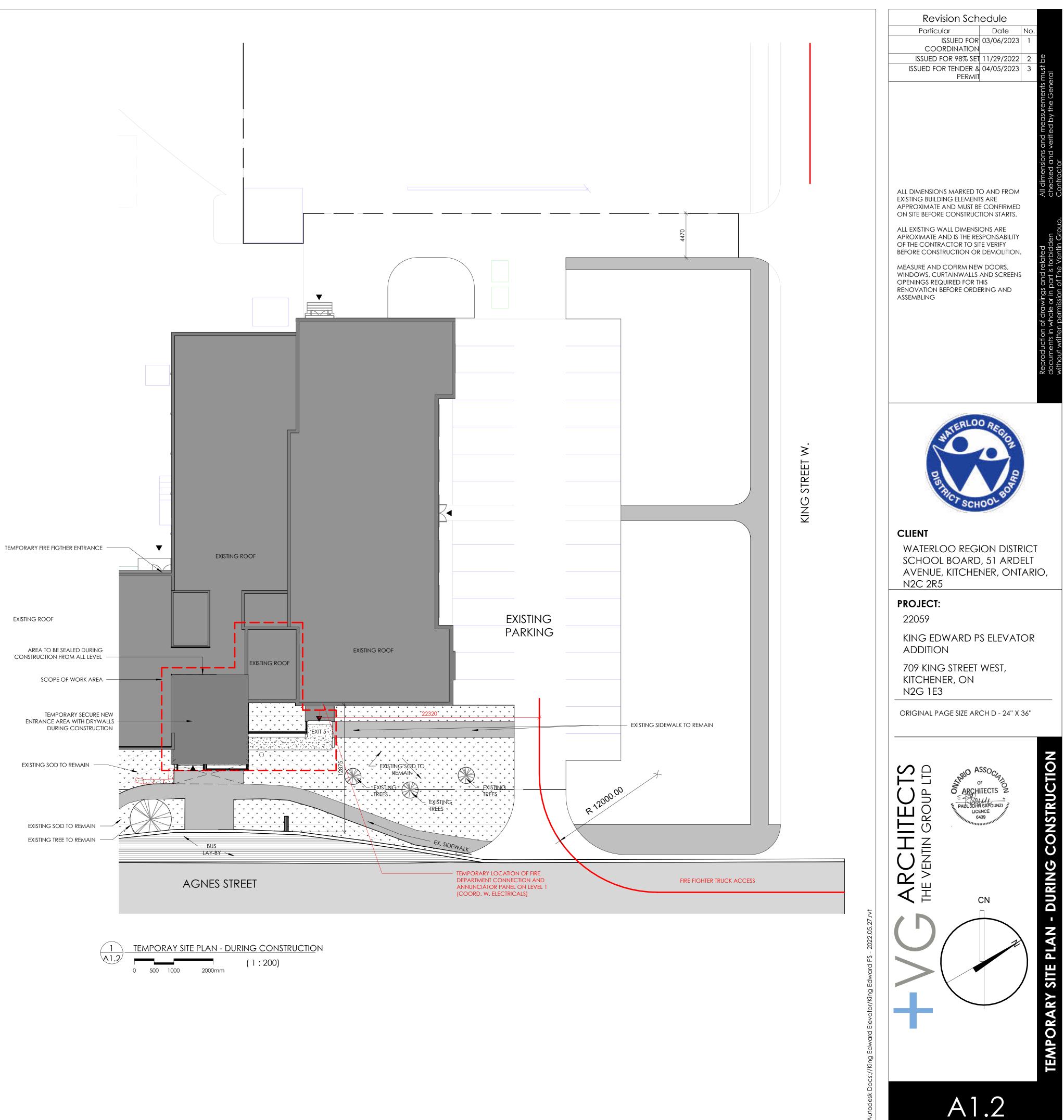


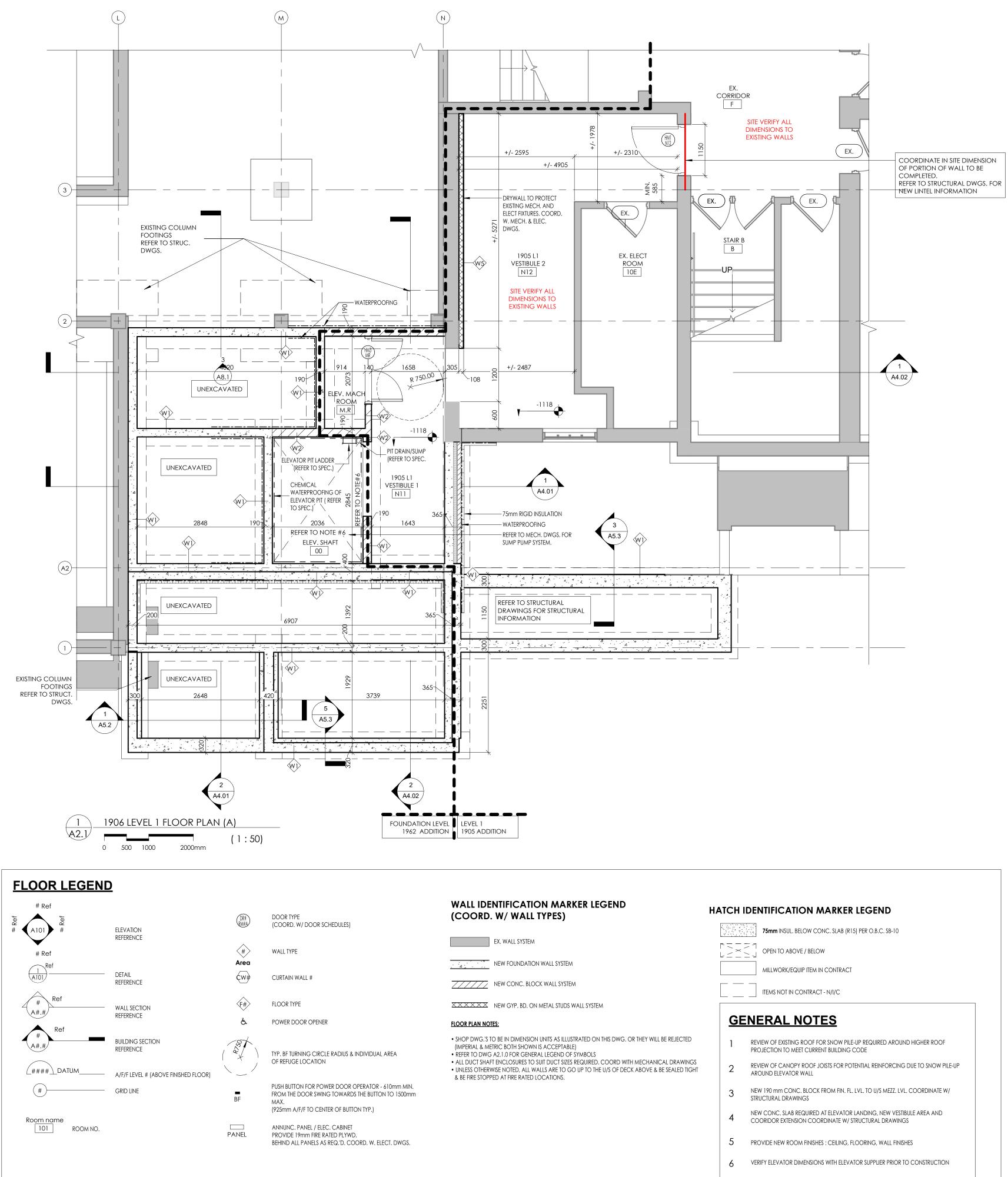


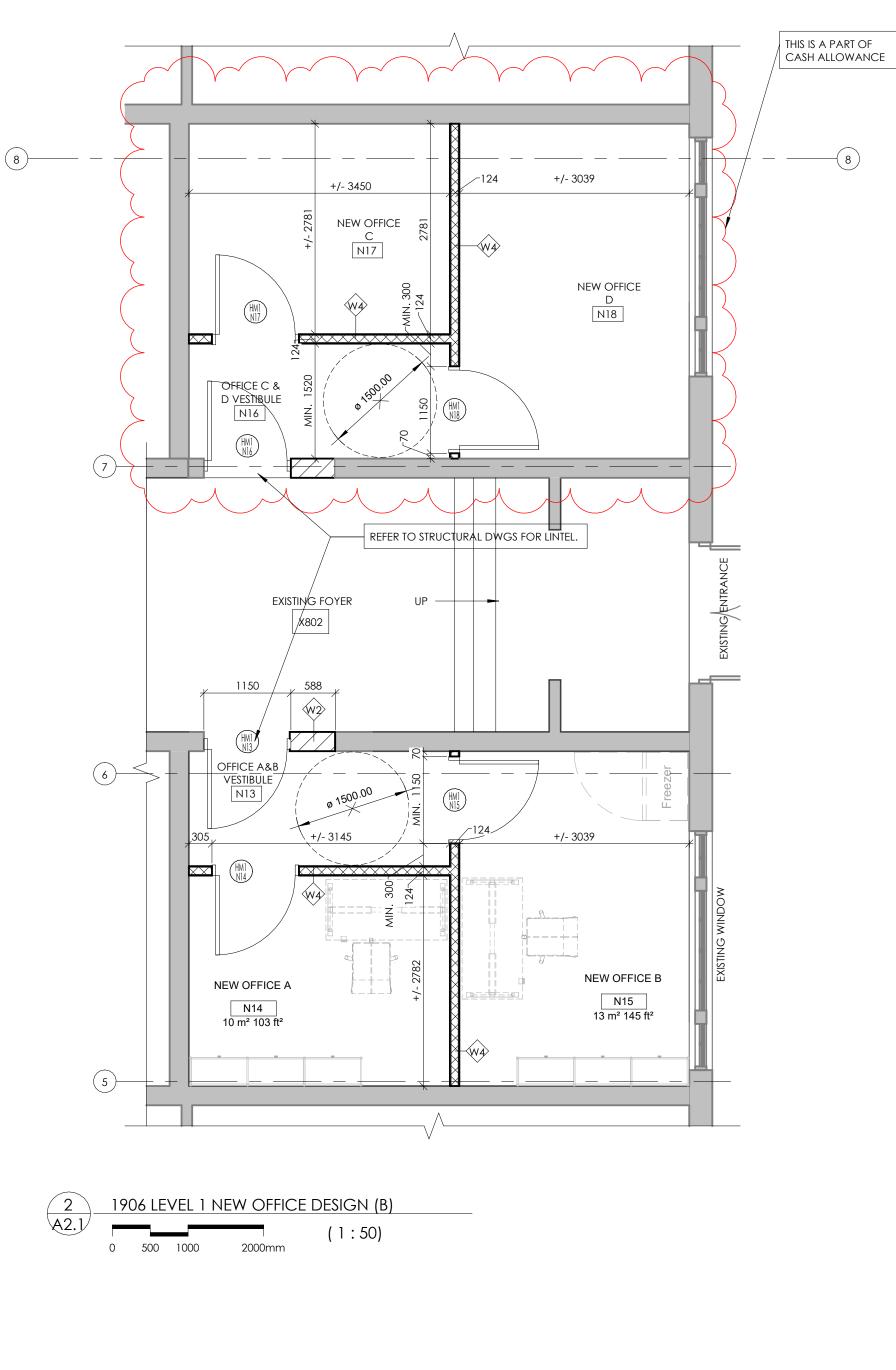


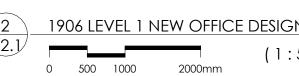
KEY PLAN N.T.S

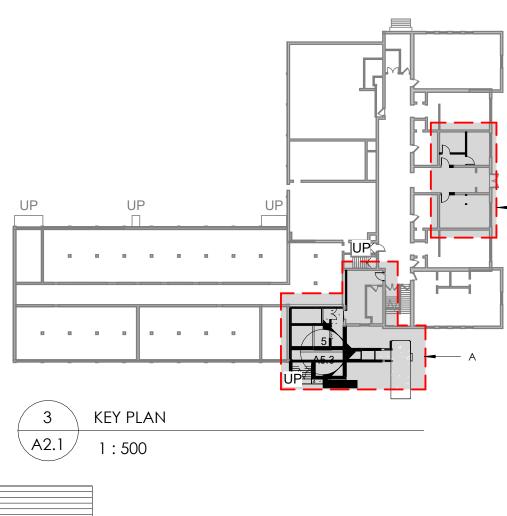










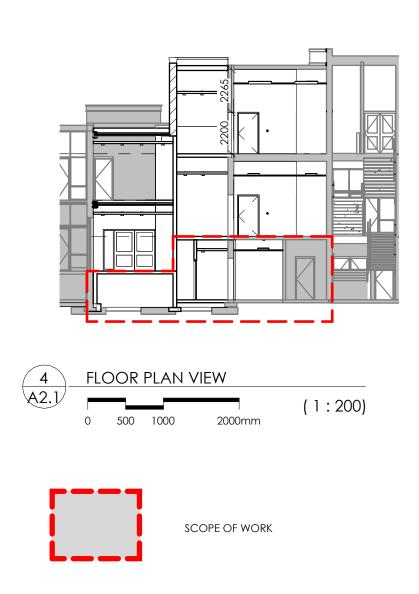




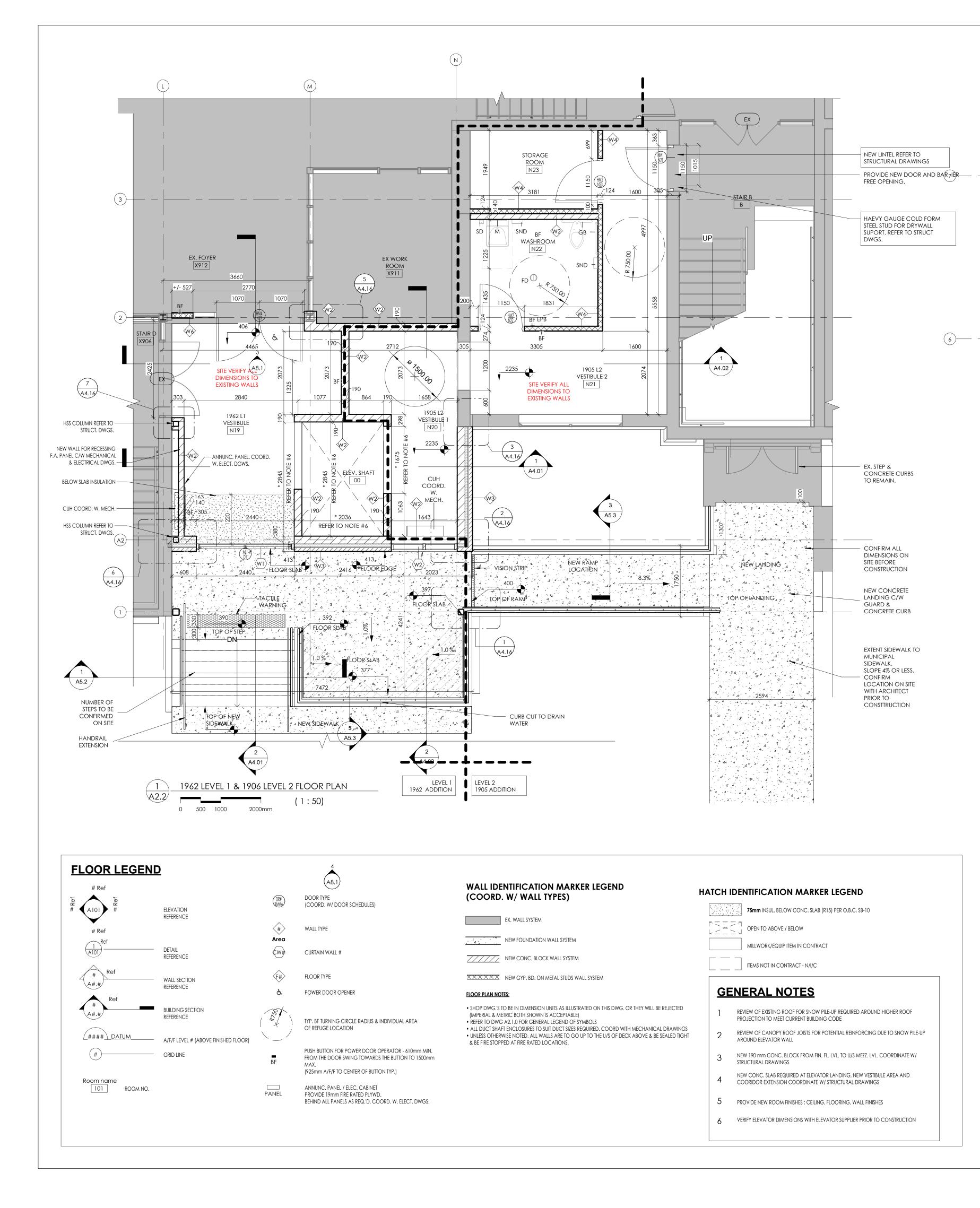
**BELOW SLAB INSULATION** 

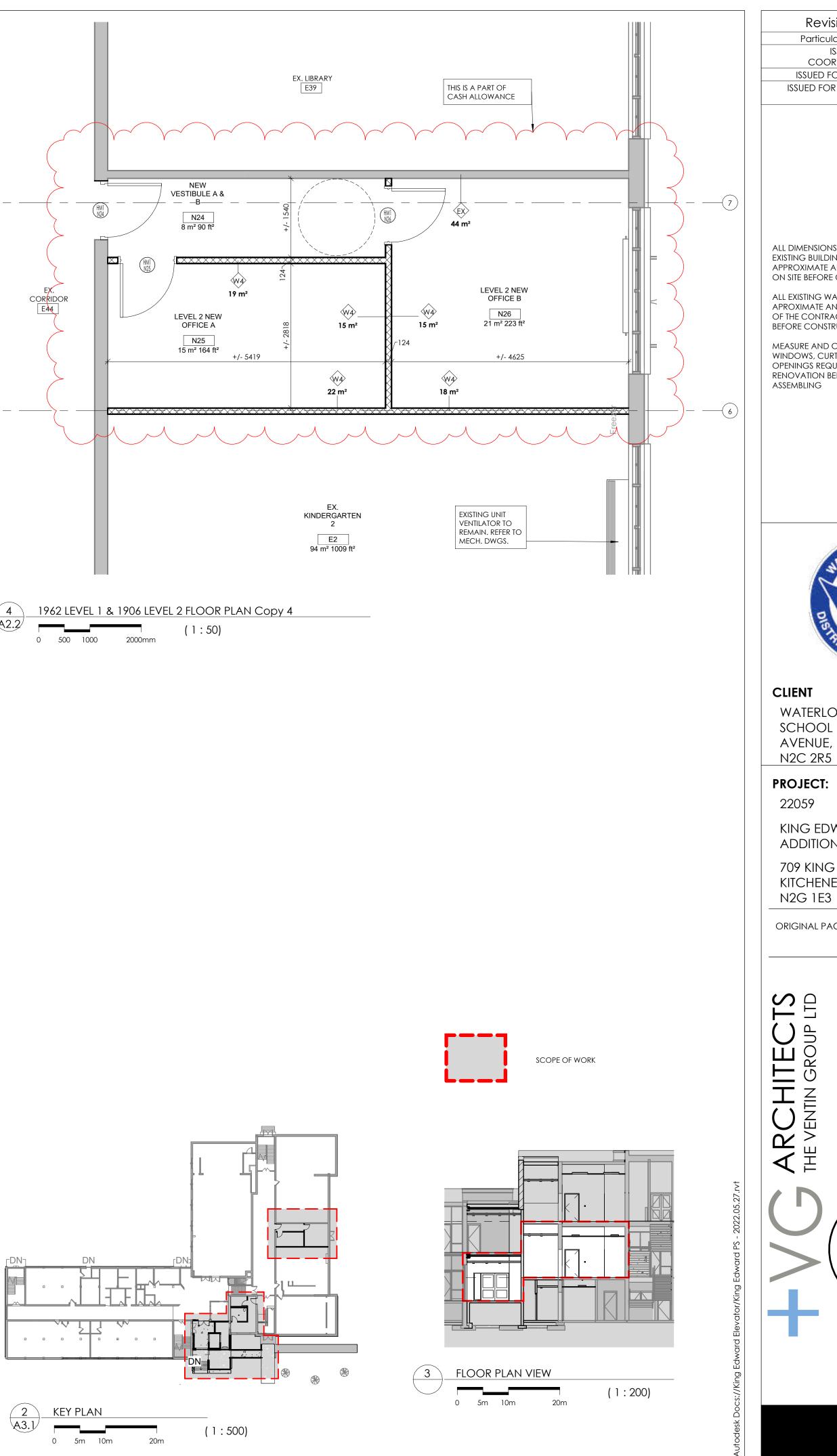
NEW FOUNDATION WALL **EXISTING WALL** 

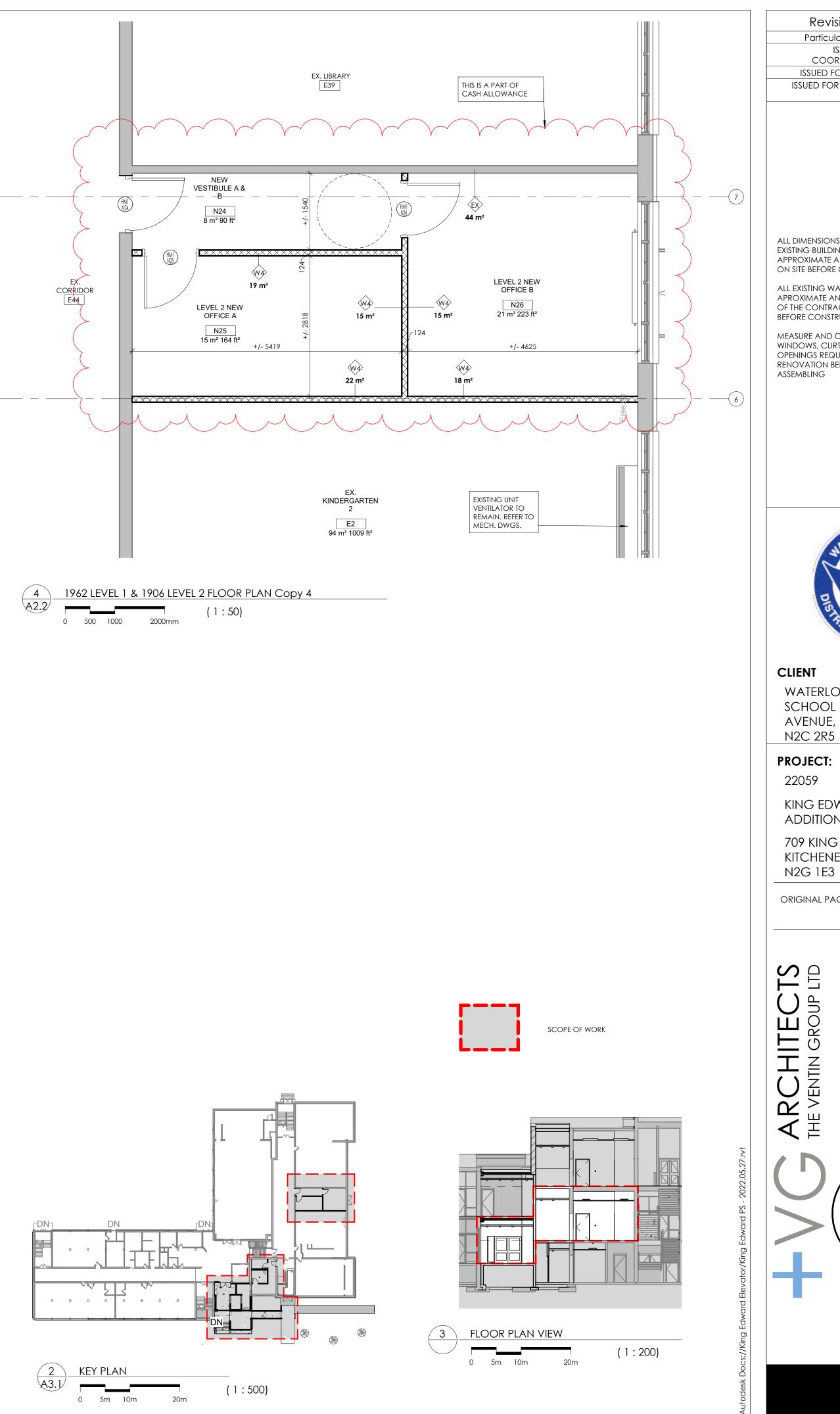
75mm INSUL. BELOW CONC. SLAB (R15) PER O.B.C. SB-10
OPEN TO ABOVE / BELOW
MILLWORK/EQUIP ITEM IN CONTRACT
ITEMS NOT IN CONTRACT - N/I/C

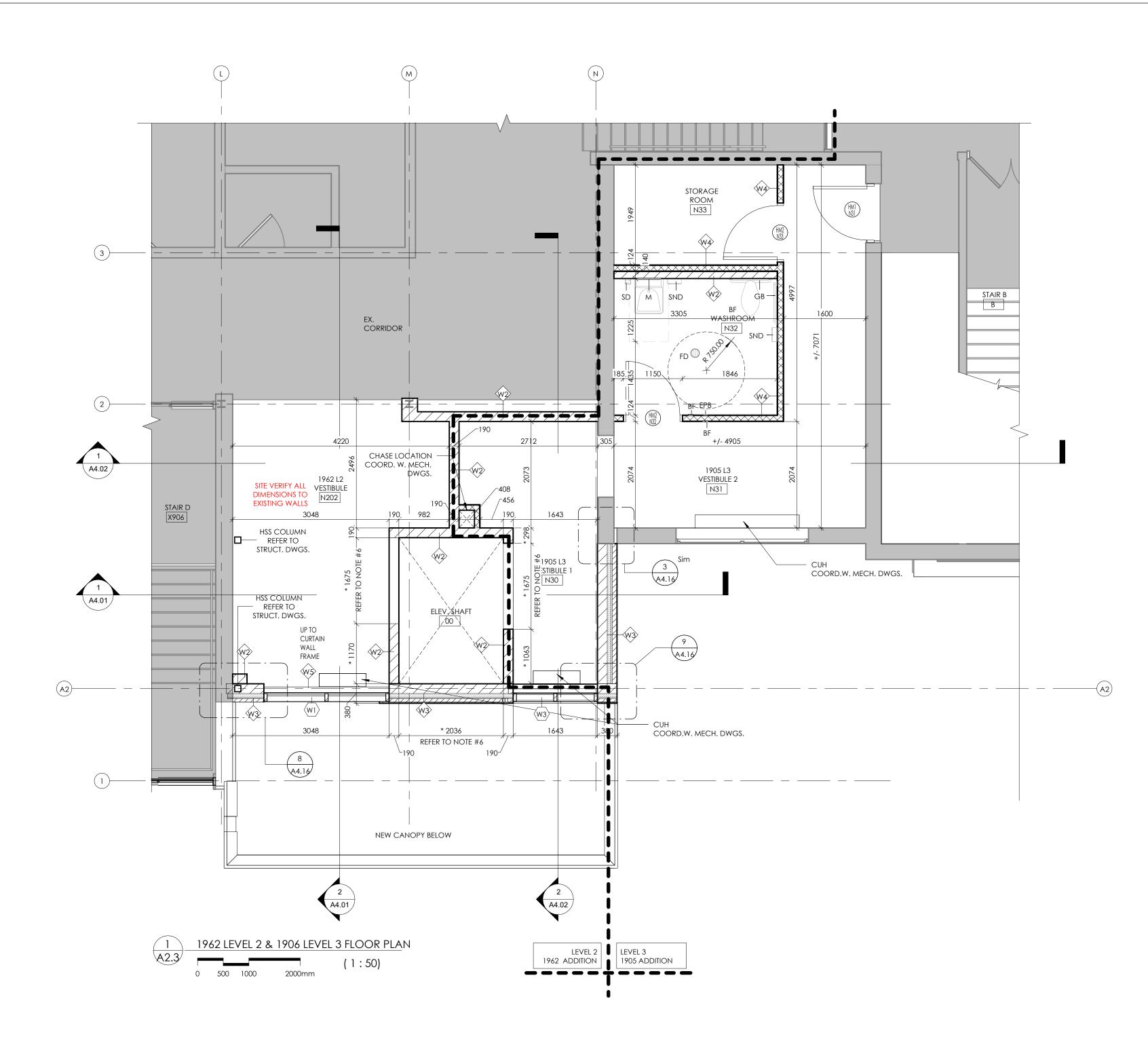


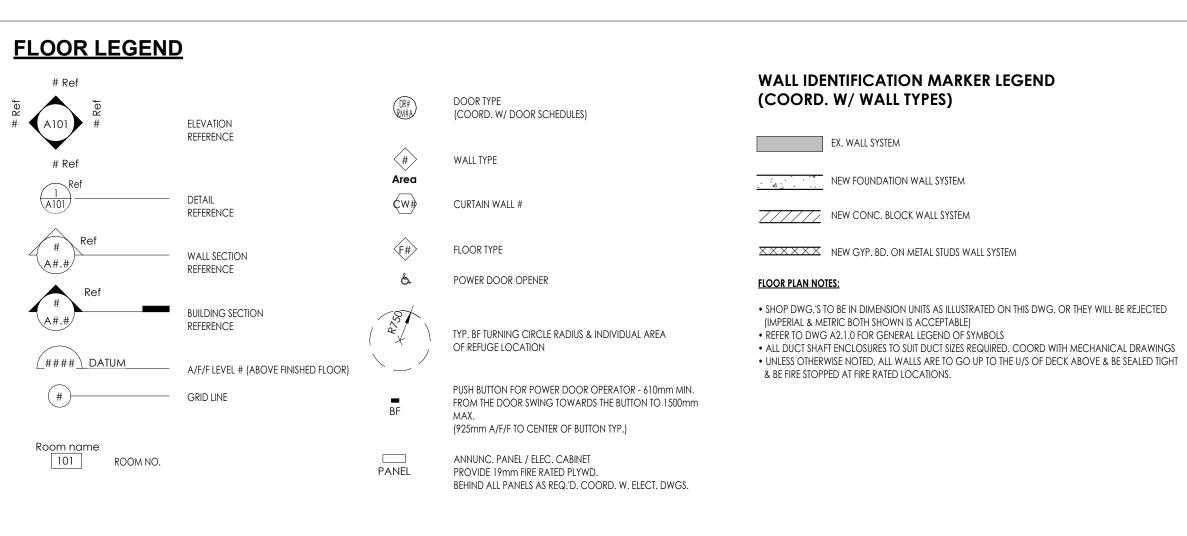
Revision ScheduleParticularDateISSUED FOR03/06/2023COORDINATION03/06/2023ISSUED FOR 98% SET11/29/2022	No. 1 2	þe
ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS. ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING	3	Reproduction of drawings and related All dimensions and measurements must documents in whole or in part is forbidden checked and verified by the General without written permission of The Ventin Group.
CLIENT WATERLOO REGION DISTR SCHOOL BOARD, 51 ARDE AVENUE, KITCHENER, ONT N2C 2R5 PROJECT: 22059 KING EDWARD PS ELEVATO ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 3		
STORUCTION OF	)	1905 LEVEL 1 FLOOR PLAN
A2.1		190







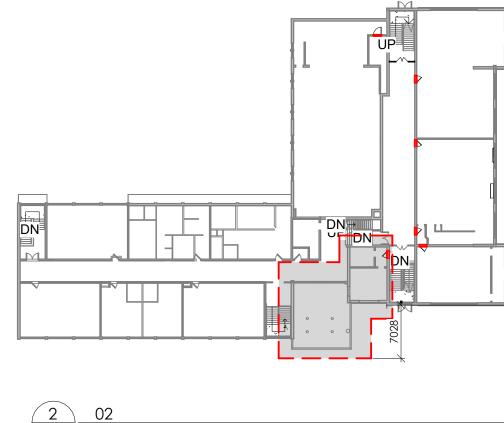


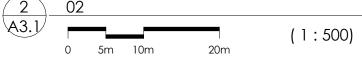


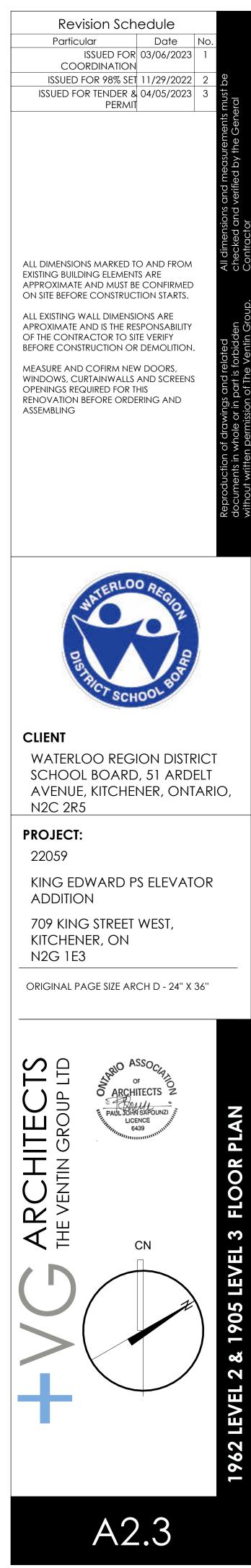


	75mm INSUL. BELOW CONC. SLAB (R15) PER O.B.C. SB-10
	OPEN TO ABOVE / BELOW
	MILLWORK/EQUIP ITEM IN CONTRACT
	ITEMS NOT IN CONTRACT - N/I/C
GE	
	NERAL NOTES
	<b>NERAL NOTES</b> REVIEW OF EXISTING ROOF FOR SNOW PILE-UP REQUIRED AROUND HIGHER ROOF PROJECTION TO MEET CURRENT BUILDING CODE
1 2	REVIEW OF EXISTING ROOF FOR SNOW PILE-UP REQUIRED AROUND HIGHER ROOF

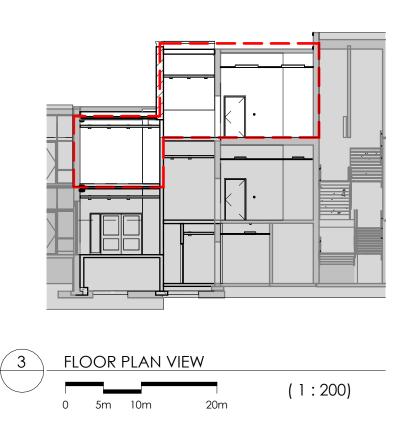
- REVIEW OF CANOPY ROOF JOISTS FOR POTENTIAL REINFORCING DUE TO SNOW PILE-UP AROUND ELEVATOR WALL
   NEW 190 mm CONC. BLOCK FROM FIN. FL. LVL. TO U/S MEZZ. LVL. COORDINATE W/ STRUCTURAL DRAWINGS
   NEW CONC. SLAB REQUIRED AT ELEVATOR LANDING, NEW VESTIBULE AREA AND COORIDOR EXTENSION COORDINATE W/ STRUCTURAL DRAWINGS
- 5 PROVIDE NEW ROOM FINISHES : CEILING, FLOORING, WALL FINISHES
- 6 VERIFY ELEVATOR DIMENSIONS WITH ELEVATOR SUPPLIER PRIOR TO CONSTRUCTION





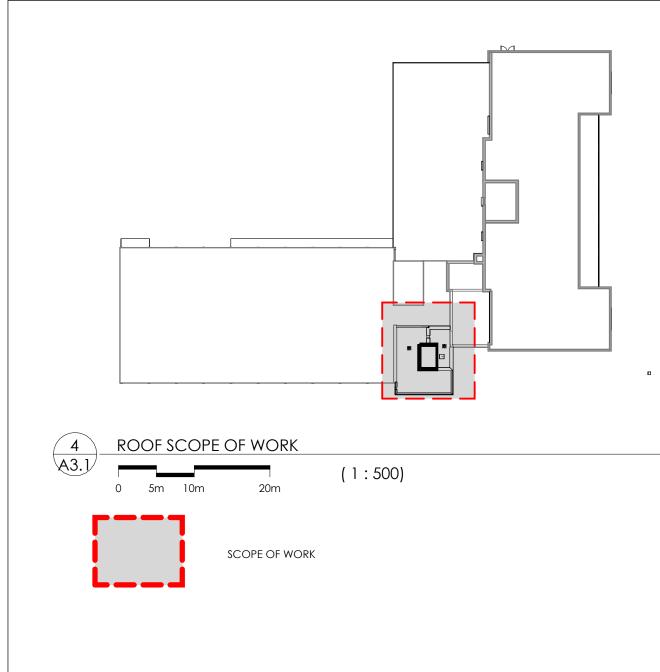


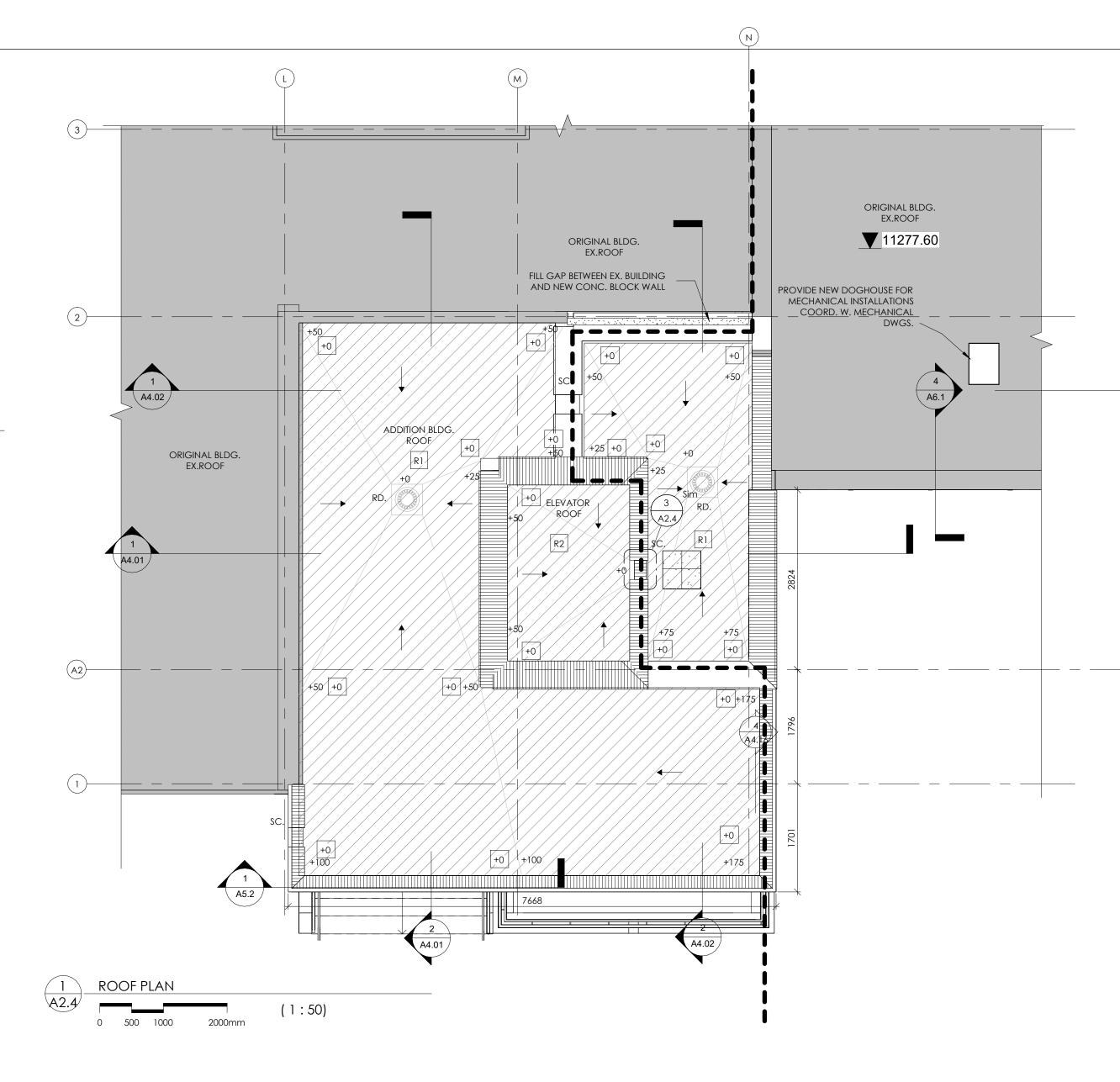
SCOPE OF WORK



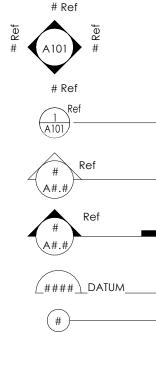
sk Docs://King Edward Elevator/King Edward PS - 2022.

Drawn by : AM/LJ Checked by : PV/KC Scale : As indicated





# FLOOR LEGEND



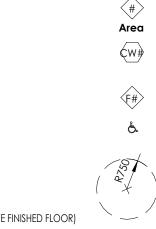
	ELEVATION REFERENCE
-	DETAIL REFERENCE
	WALL SECTION REFERENCE

A/F/F LEVEL # (ABOVE FINISHED FLOOR) GRID LINE

BUILDING SECTION

REFERENCE

Room name 101 ROOM NO.



DR# RM#A

# DANEL

DOOR TYPE (COORD. W/ DOOR SCHEDULES)

WALL TYPE

CURTAIN WALL #

FLOOR TYPE

POWER DOOR OPENER

TYP. BF TURNING CIRCLE RADIUS & INDIVIDUAL AREA OF REFUGE LOCATION

PUSH BUTTON FOR POWER DOOR OPERATOR - 610mm MIN. FROM THE DOOR SWING TOWARDS THE BUTTON TO 1500mm MAX. (925mm A/F/F TO CENTER OF BUTTON TYP.)

ANNUNC. PANEL / ELEC. CABINET PROVIDE 19mm FIRE RATED PLYWD. BEHIND ALL PANELS AS REQ.'D. COORD. W. ELECT. DWGS.

### WALL IDENTIFICATION MARKER LEGEND (COORD. W/ WALL TYPES)

EX. WALL SYSTEM

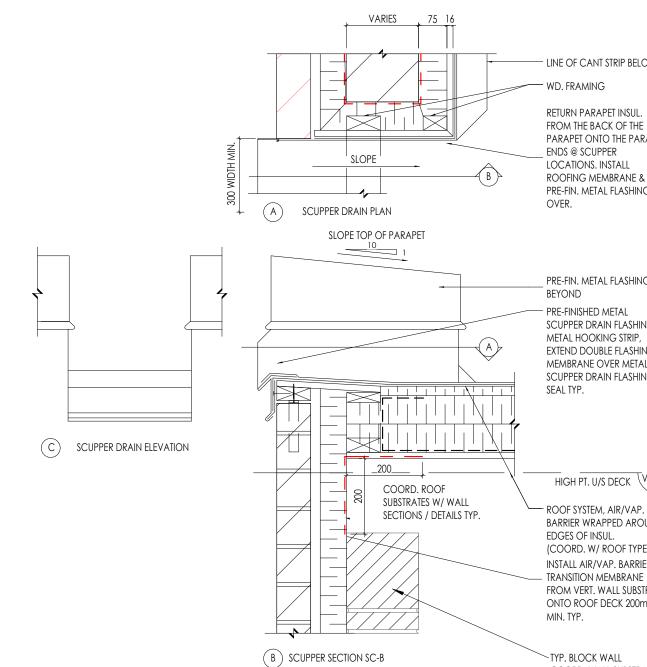
NEW FOUNDATION WALL SYSTEM

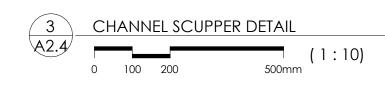
NEW CONC. BLOCK WALL SYSTEM

XXXXX NEW GYP. BD. ON METAL STUDS WALL SYSTEM

### FLOOR PLAN NOTES:

• SHOP DWG.'S TO BE IN DIMENSION UNITS AS ILLUSTRATED ON THIS DWG. OR THEY WILL BE REJECTED (IMPERIAL & METRIC BOTH SHOWN IS ACCEPTABLE) • REFER TO DWG A2.1.0 FOR GENERAL LEGEND OF SYMBOLS • ALL DUCT SHAFT ENCLOSURES TO SUIT DUCT SIZES REQUIRED. COORD WITH MECHANICAL DRAWINGS • UNLESS OTHERWISE NOTED, ALL WALLS ARE TO GO UP TO THE U/S OF DECK ABOVE & BE SEALED TIGHT & BE FIRE STOPPED AT FIRE RATED LOCATIONS.





# HATCH IDENTIFICATION MARKER LEGEND

x,		75mm INSUL. BELOW CONC. SLAB (R15) PER O.B.C. SB-10
		OPEN TO ABOVE / BELOW
		MILLWORK/EQUIP ITEM IN CONTRACT
	:	ITEMS NOT IN CONTRACT - N/I/C
	<u>GE</u>	NERAL NOTES
	1	REVIEW OF EXISTING ROOF FOR SNOW PILE-UP REQUIRED AROUND HIGHER ROOF PROJECTION TO MEET CURRENT BUILDING CODE
	2	REVIEW OF CANOPY ROOF JOISTS FOR POTENTIAL REINFORCING DUE TO SNOW PILE-UP AROUND ELEVATOR WALL
	3	NEW 190 mm CONC. BLOCK FROM FIN. FL. LVL. TO U/S MEZZ. LVL. COORDINATE W/ STRUCTURAL DRAWINGS
	4	NEW CONC. SLAB REQUIRED AT ELEVATOR LANDING, NEW VESTIBULE AREA AND COORIDOR EXTENSION COORDINATE W/ STRUCTURAL DRAWINGS

- 5 PROVIDE NEW ROOM FINISHES : CEILING, FLOORING, WALL FINISHES
- VERIFY ELEVATOR DIMENSIONS WITH ELEVATOR SUPPLIER PRIOR TO CONSTRUCTION

### ROOF LEGENDS RELATIVE ROOF SLOPE HEIGHT DIFFERENCES OF -100 TOP OF ROOF SURFACE WITHIN THE ROOF PER. INDICATED. -150 RELATIVE ROOF SLOPE HEIGHT / ELEV. DIFFERENCES OF TOP OF ROOF SURFACE LAYER WITHIN THE ROOF PER. INDICATED. RELATIVE TO HIGH POINT OF FINISHED ROOF IS NOTED AS 0mm TYP. ROOF TYPE # (R#) (COORD. W/ ROOF TYPES) ROOF SLOPE DIRECTION Slope ROOF DRAIN LOCATION 1220x1220mm x 25mm DEEP ROOF INSUL. DEPRESSION @ ROOF $\bigcirc$ DRAIN LOCATION. ROOF DRAINS ARE LOCATED IN THE GENERAL LOCATION ON THE ROOF PLAN, COORD. W/ STRUCT. DWG.'S & W/ THE STEEL SHOP DWG.'S FOR EXACT LOCATION. PROVIDE POSITIVE ROOF SLOPES TOWARD ROOF DRAIN. SLOPE TO RD - 0 BE MIN. 1.5 -2%. (COORD. W/ MECH. DWG.'S) EXISTING PARAPET TO REMAIN SC MAKE GOOD WHERE DISTURBED

TAPERED ROOF INSULATION TO PROVIDE ROOF SLOPE IN AREA WHERE ROOF STRUCT. CAN NOT BE ALTERED FOR REQ.'D DRAINAGE SLOPE. PROVIDE ADDITIONAL TAPERED INSUL. @ ALL ROOF TOP UNIT LOCATIONS TO DIVERT WATER AROUND THE UNITS TO DRAIN. SLOPE TO BE MIN. 1.5-2%.

ROOF DRAINS SHOWN ARE TO BE @ STRUCTURAL LOW POINTS SITE VERIFY & ENSURE ROOF DRAINS ARE INSTALLED @ LOW POINTS. PROVIDE TAPERED INSULATION AS REQUIRED TO PROVIDE POSITIVE ROOF SLOPES TO ALL ROOF DRAINS. PROVIDE ENGINEERED TAPERED INSULATION SHOP DRAWINGS FOR REVIEW AND COORDINATION WITH STRUCTURAL STEEL FRAMING.

600x600x50mm PRECAST CONCRETE PAVERS ON RIGID INSULATION PADS AS SPEC'D. AT ALL ROOF ACCESS LOCATIONS AND AROUND ANY ROOF TOP EQUIPMENT THAT REQUIRES SERVICE. COORDINATE WITH MECHANICAL TRADE FOR LOCATIONS INCLUDING LOCATIONS INDICATED ON ROOF PLAN.

NEW PARAPET CAP FLASHING (TYP.)

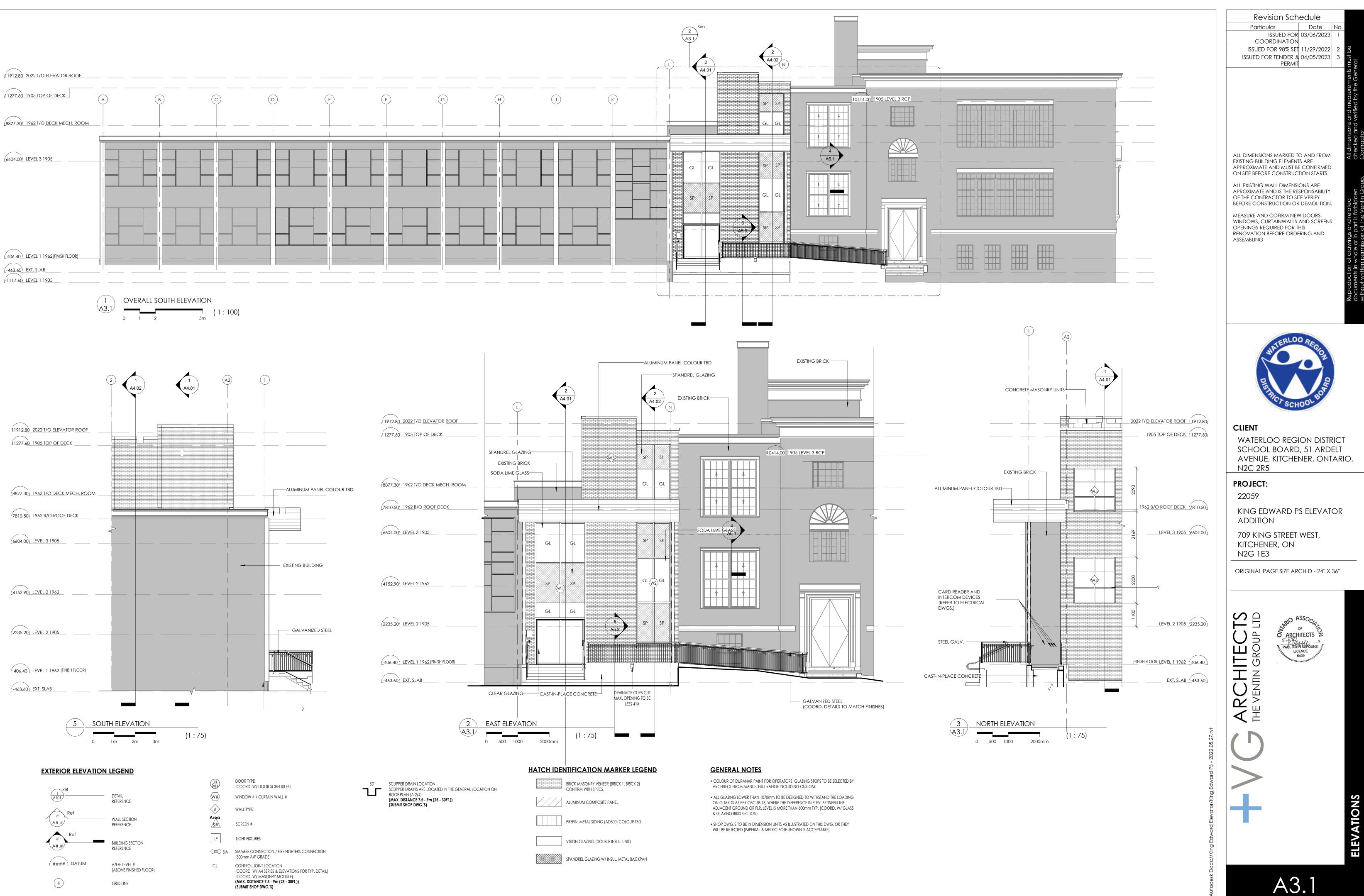
SCUPPER DRAIN LOCATION SCUPPER DRAINS ARE LOCATED IN THE GENERAL LOCATION ON THE ROOF PLAN, COORD. W/ ELEV.'S (COORD. W/ 25/A4.8

— LINE OF CANT STRIP BELOW RETURN PARAPET INSUL. FROM THE BACK OF THE PARAPET ONTO THE PARAPET ROOFING MEMBRANE & PRE-FIN. METAL FLASHING PRE-FIN. METAL FLASHING PRE-FINISHED METAL SCUPPER DRAIN FLASHING & METAL HOOKING STRIP, EXTEND DOUBLE FLASHING MEMBRANE OVER METAL SCUPPER DRAIN FLASHING & HIGH PT. U/S DECK

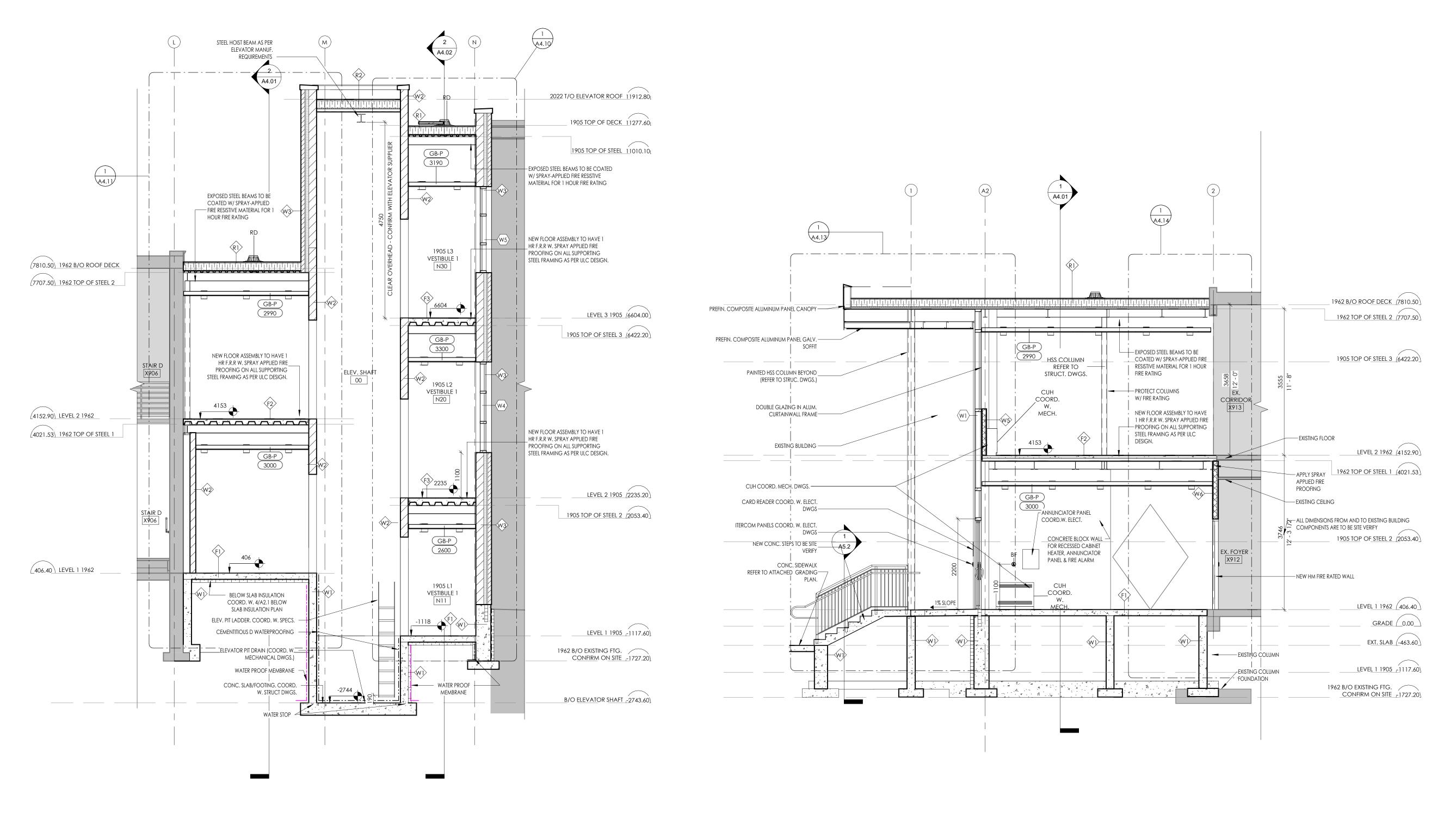
> BARRIER WRAPPED AROUND (COORD. W/ ROOF TYPES) INSTALL AIR/VAP. BARRIER FROM VERT. WALL SUBSTRATE ONTO ROOF DECK 200mm

> COORD. WALL SUBSTRATES W/ FLR. PLANS & WALL TYPES TYP.





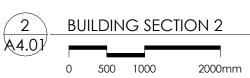
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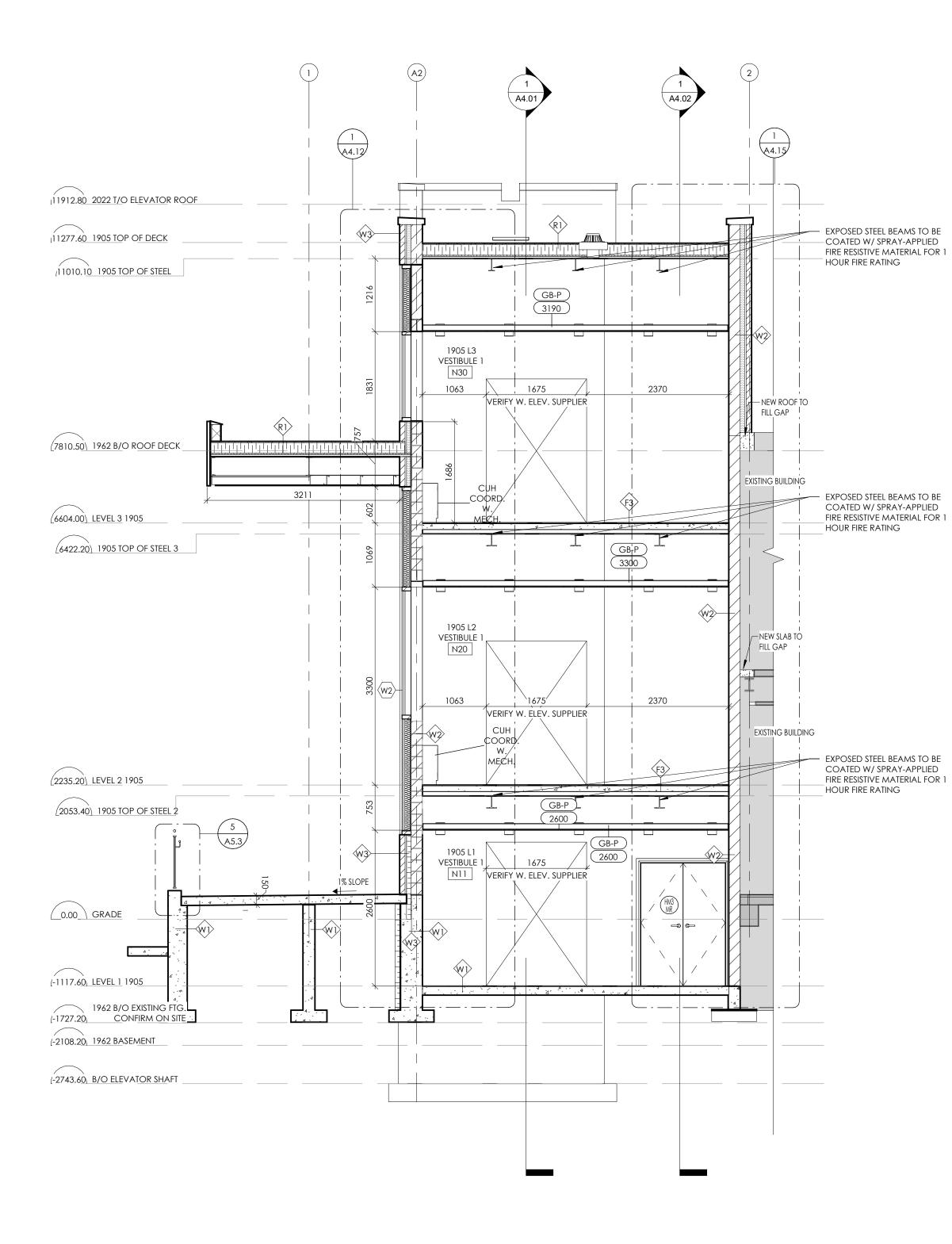
1 BUILDING SECTION 1 0 500 1000 2000mm

(1:50)



(1:50)

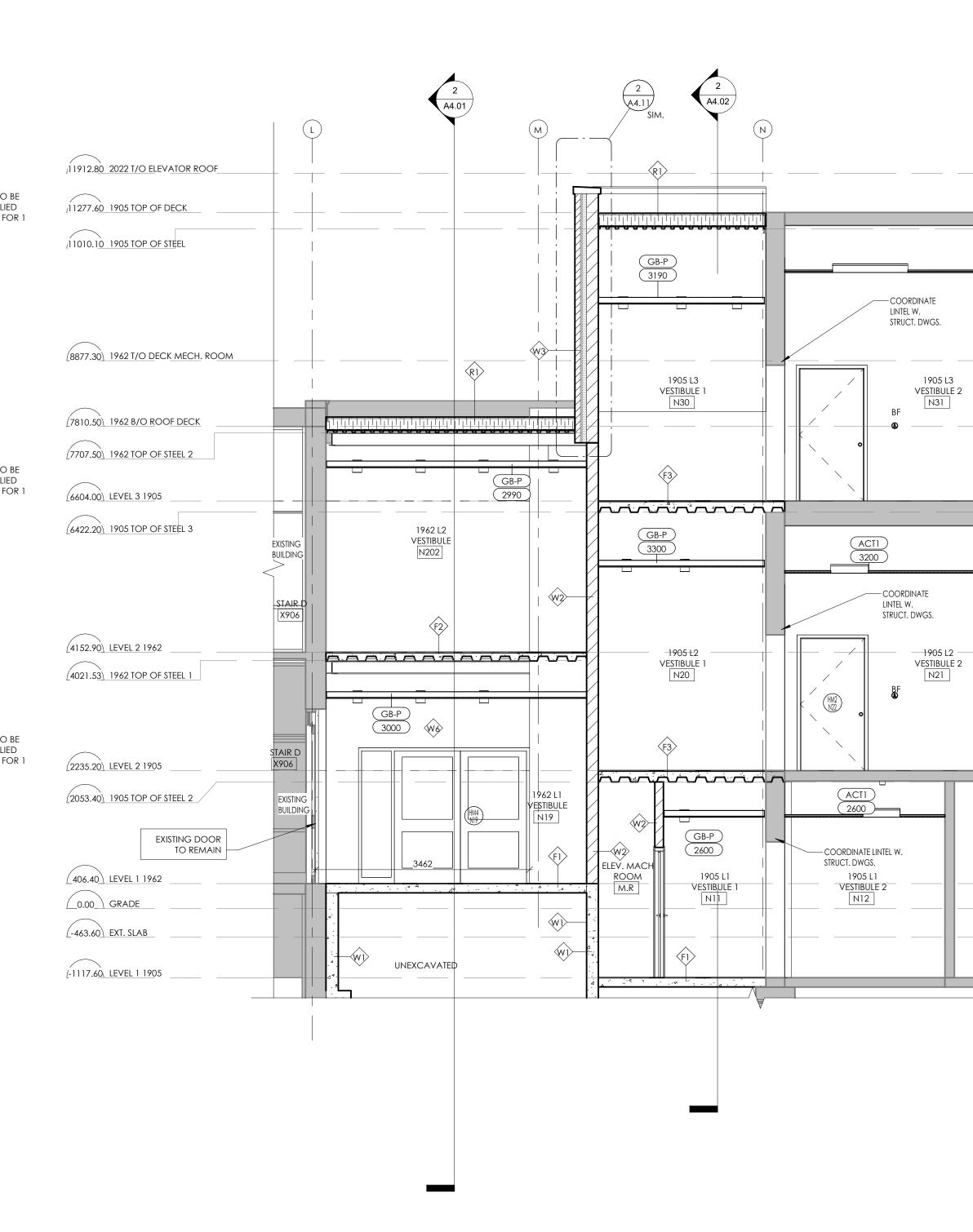




A4.02

2 BUILDING SECTION 3

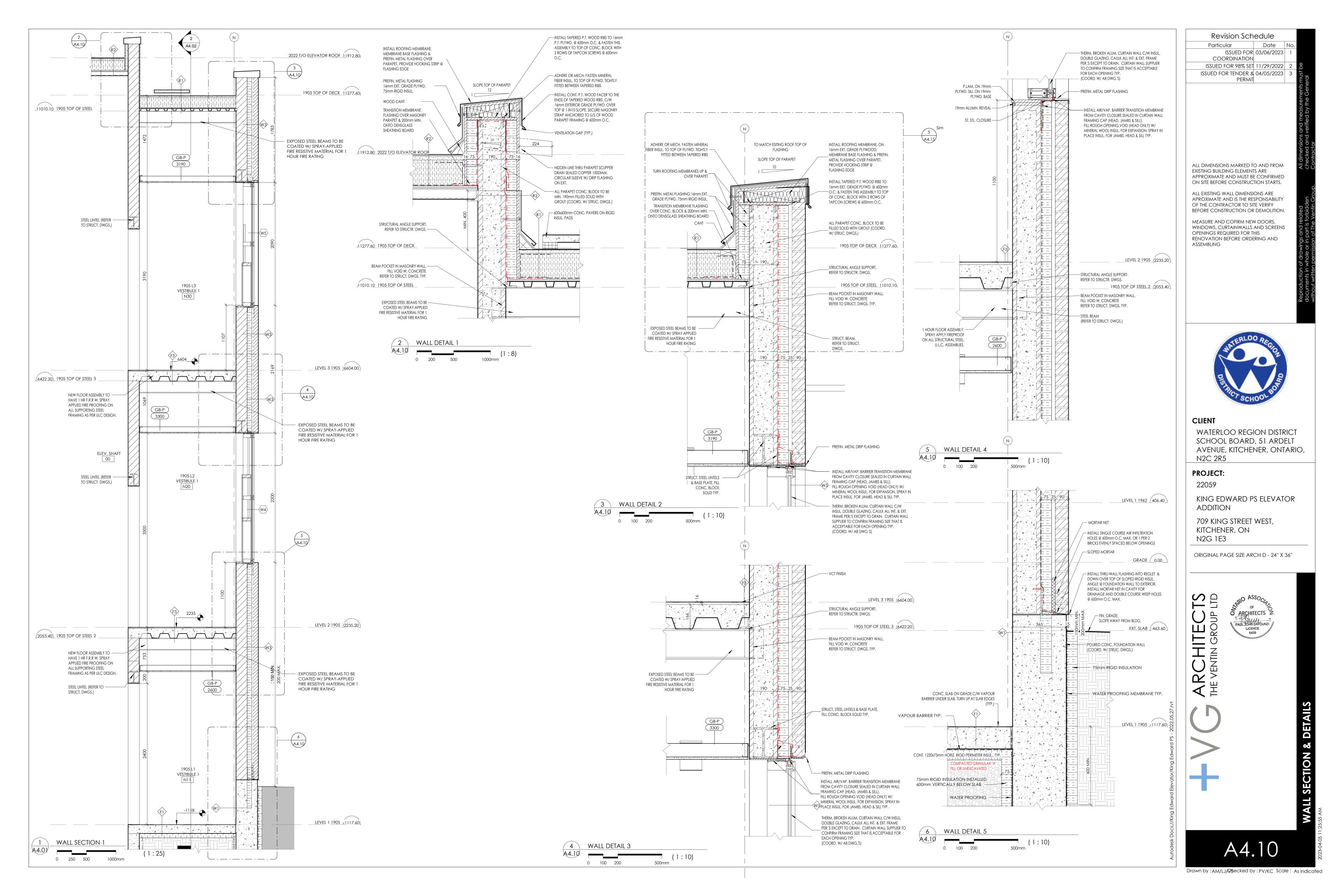
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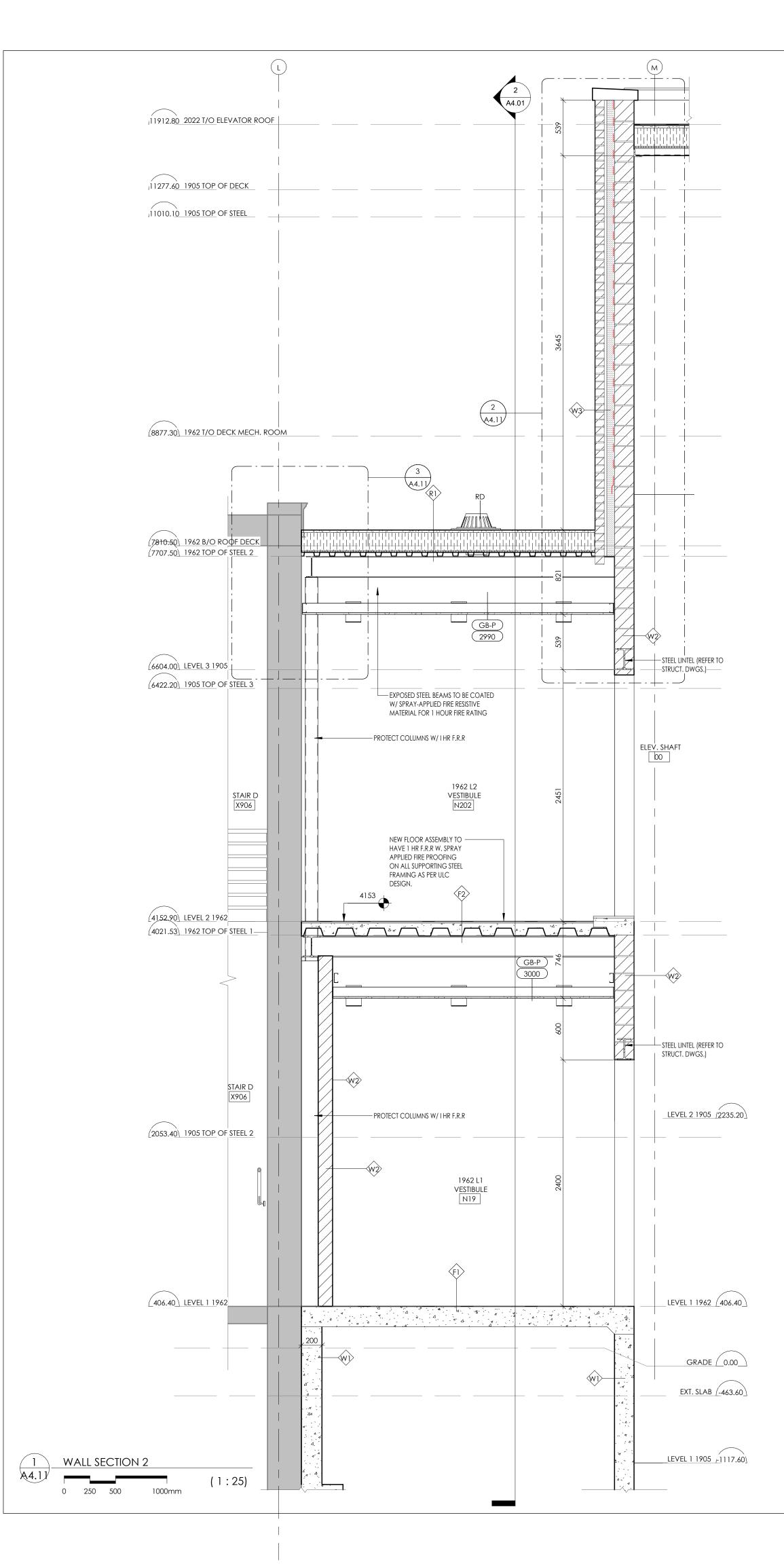


BUILDING SECTION 4 A4.02 0 500 1000 2000mm

(1:50)





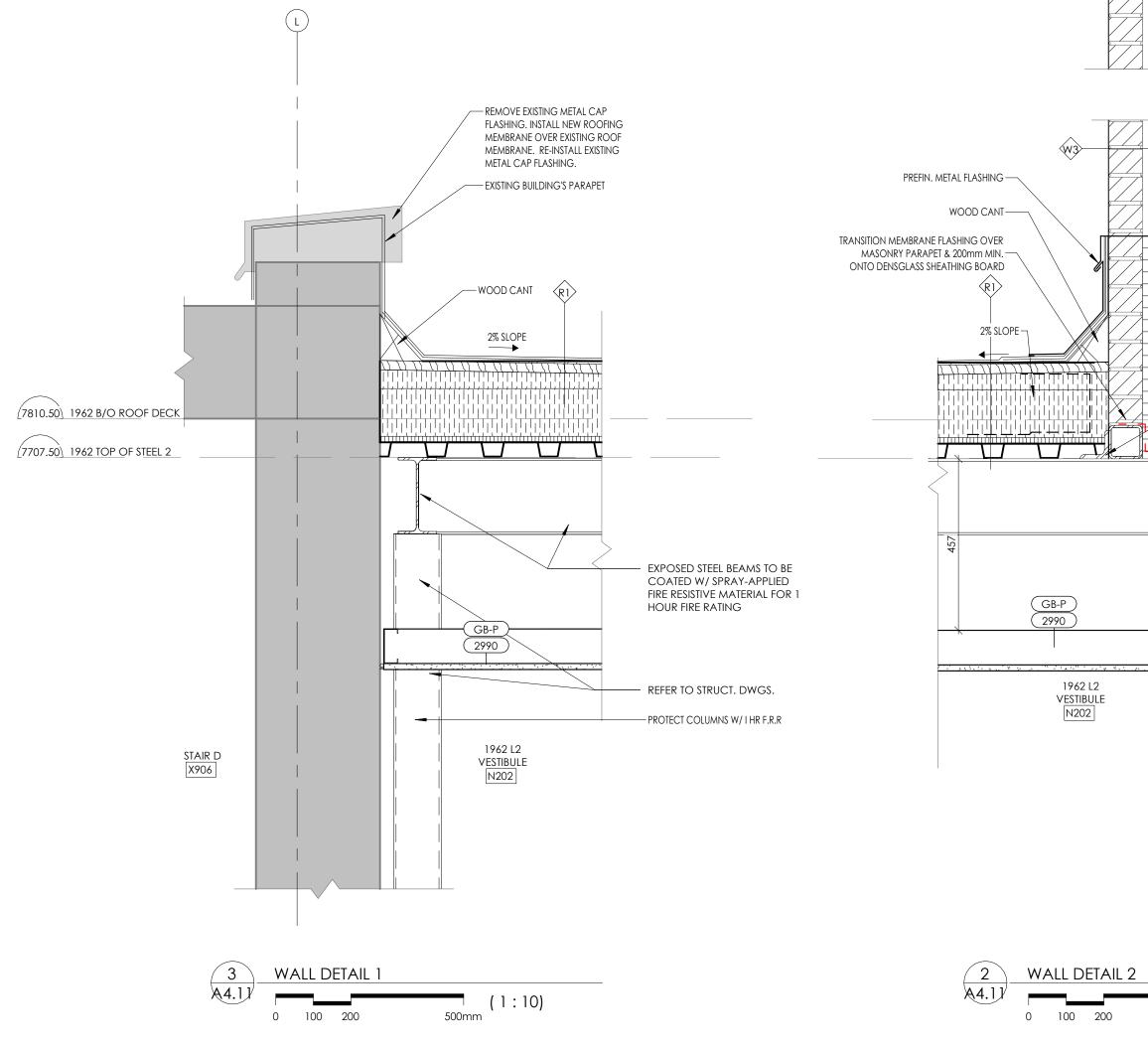


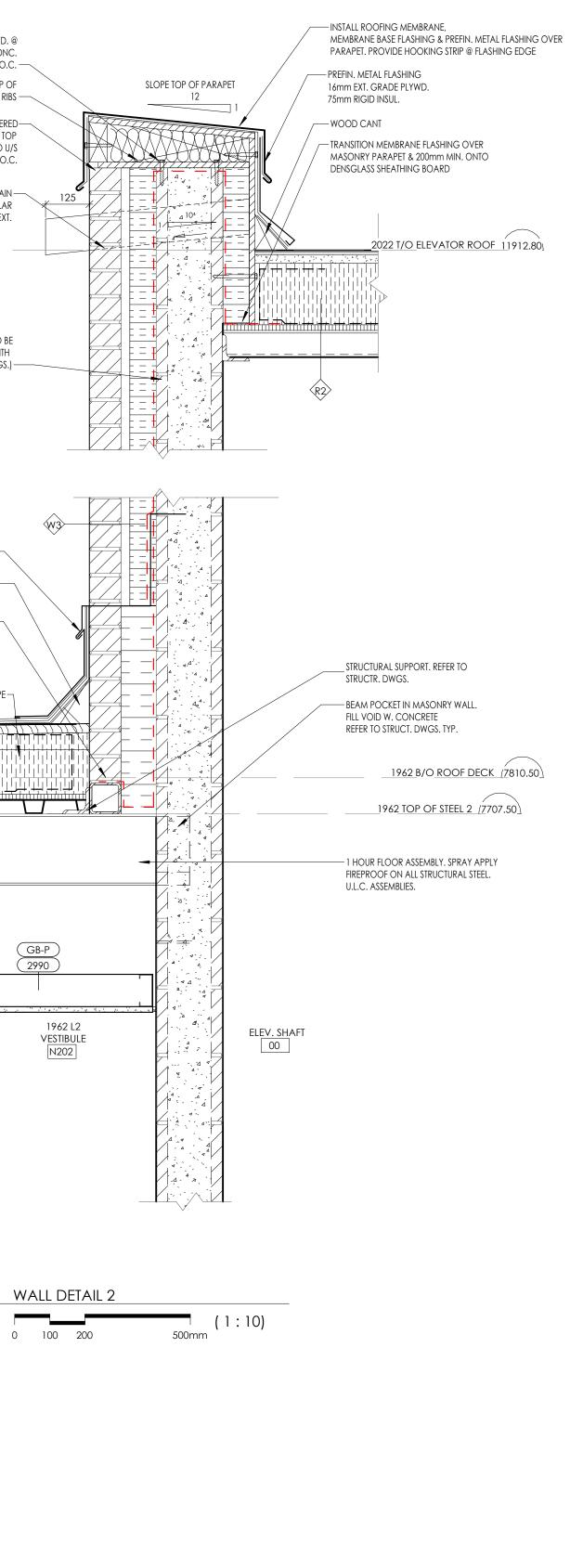
### INSTALL TAPERED P.T. WOOD RIBS TO 16mm P.T. PLYWD. @ 600mm O.C. & FASTEN THIS ASSEMBLY TO TOP OF CONC. BLOCK WITH 2 ROWS OF TAPCON SCREWS @ 600mm O.C. — ADHERE OR MECH. FASTEN MINERAL FIBER INSUL. TO TOP OF PLYWD. TIGHTLY FITTED BETWEEN TAPERED RIBS —

INSTALL CONT. P.T. WOOD FACER TO THE ENDS OF TAPERED-WOOD RIBS, C/W 16mm EXTERIOR GRADE PLYWD. OVER TOP @ 1-IN10 SLOPE. SECURE MASONRY STRAP ANCHORED TO U/S OF WOOD PARAPET FRAMING @ 600mm O.C.

> HIDDEN LINE THRU PARAPET SCUPPER DRAIN SEALED COPPER 100DIAM. CIRCULAR SLEEVE W/ DRIP FLASHING ON EXT.

### ALL PARAPET CONC. BLOCK TO BE MIN. 190mm FILLED SOLID WITH GROUT (COORD. W/ STRUC. DWGS.) -----

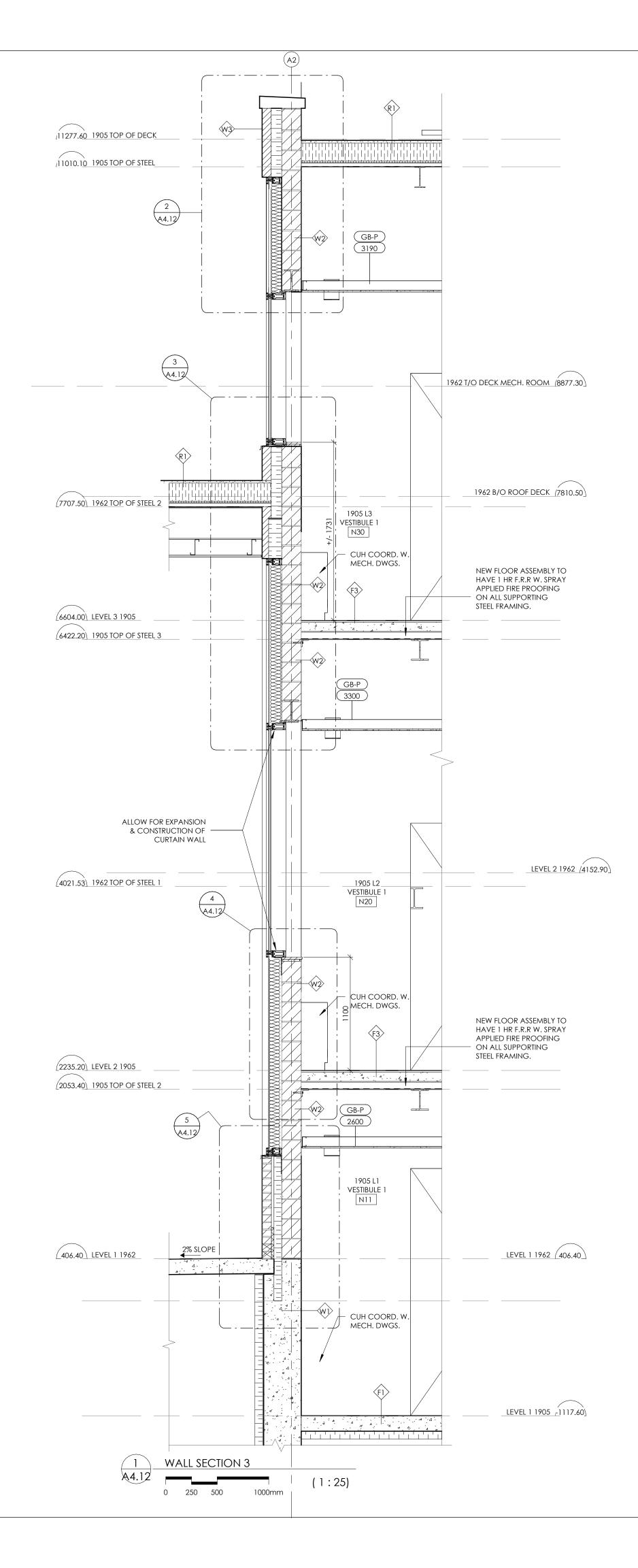


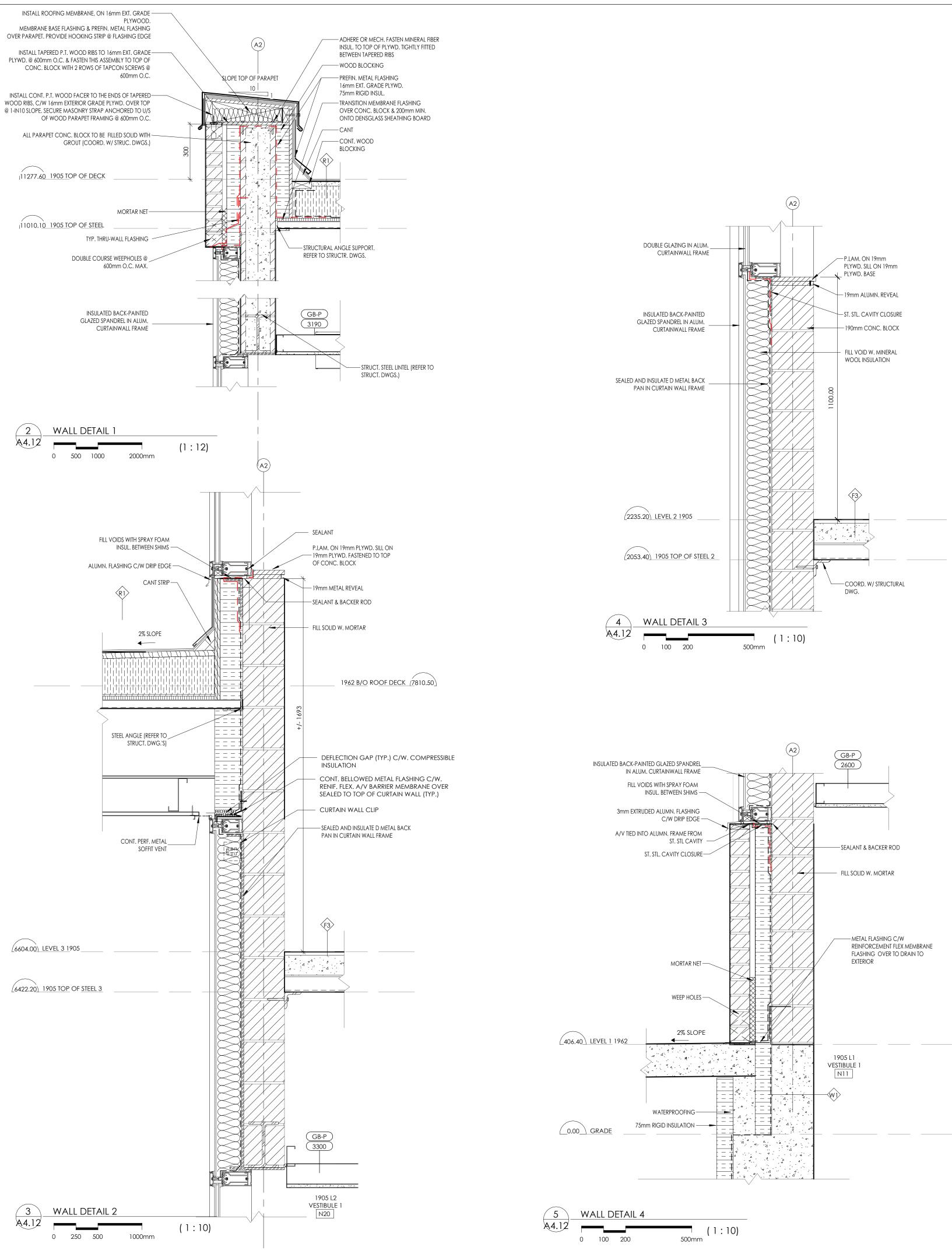


Particular Date ISSUED FOR 03/06/2023 COORDINATION ISSUED FOR 98% SET 11/29/2022 ISSUED FOR TENDER & 04/05/2023 PERMIT ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS. ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5 **PROJECT:** 22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 36" ARCHITECTS THE VENTIN GROUP LTD DETAILS ంర SECTION

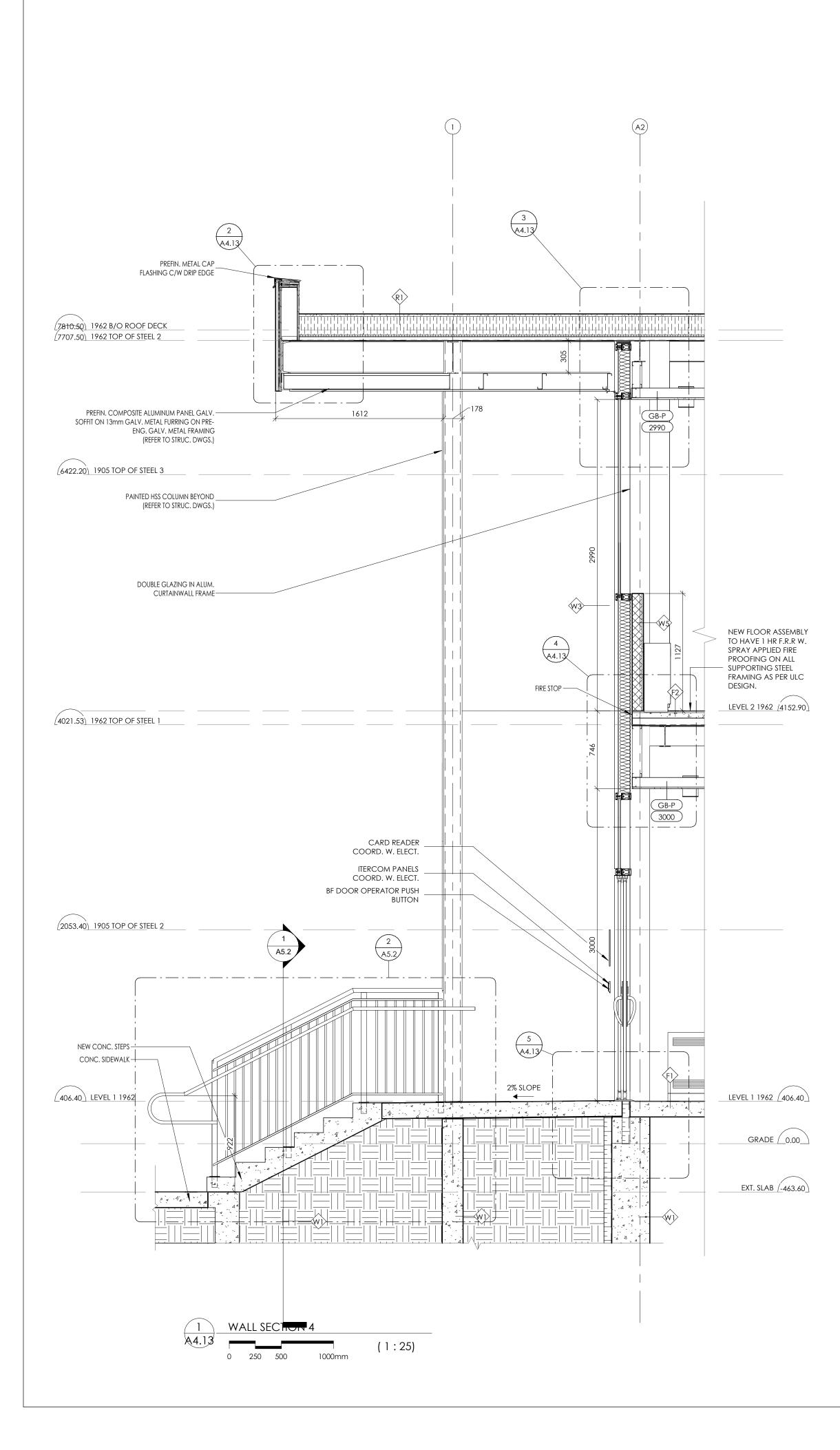
**Revision Schedule** 

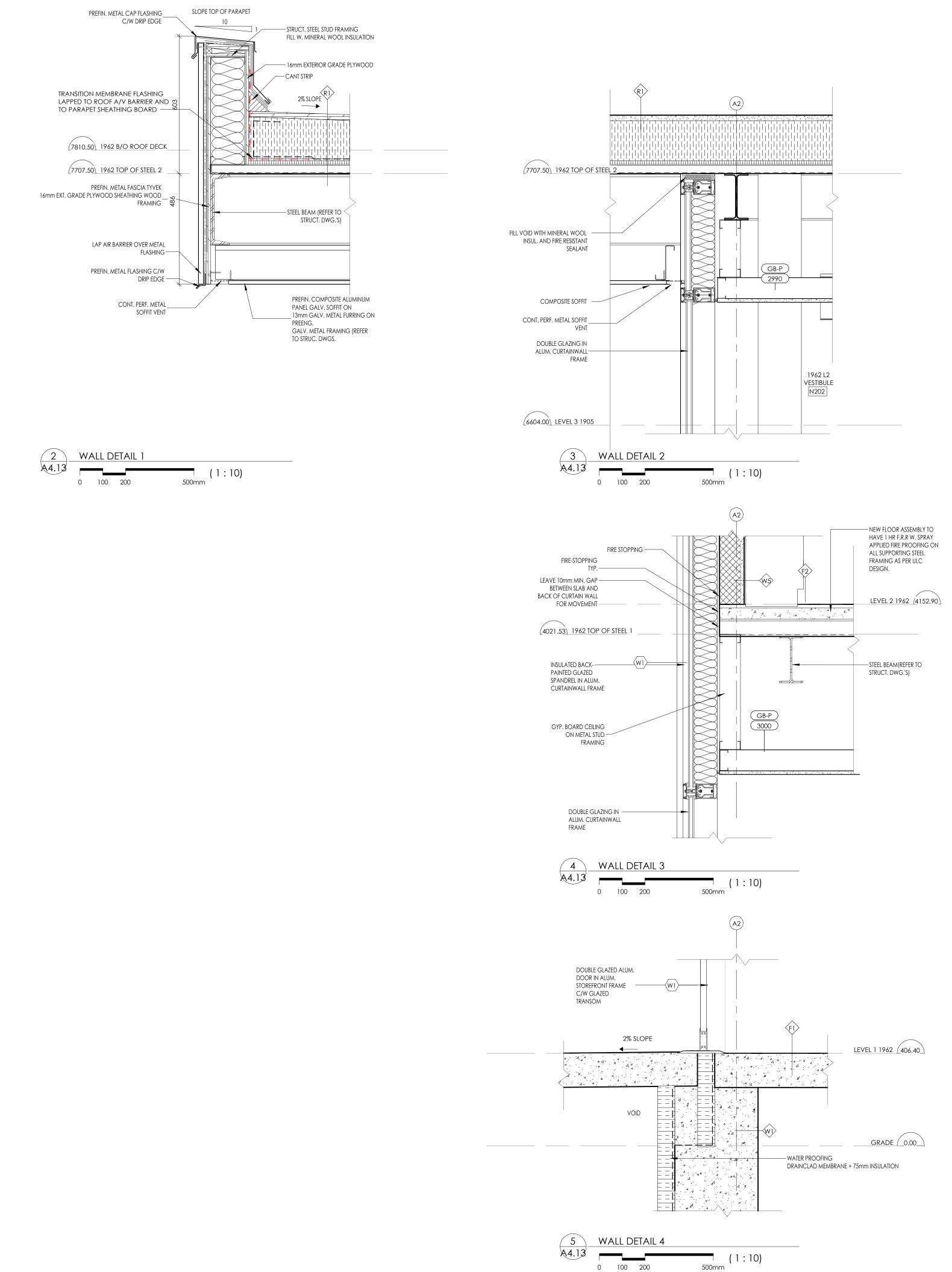
A4.11

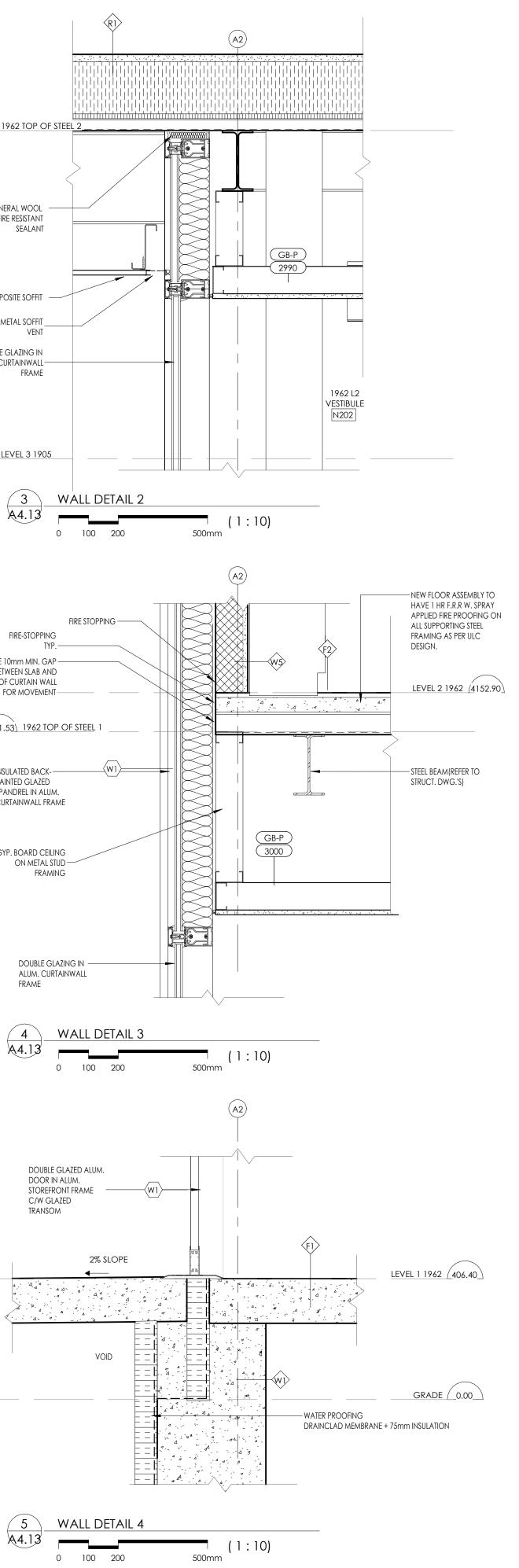




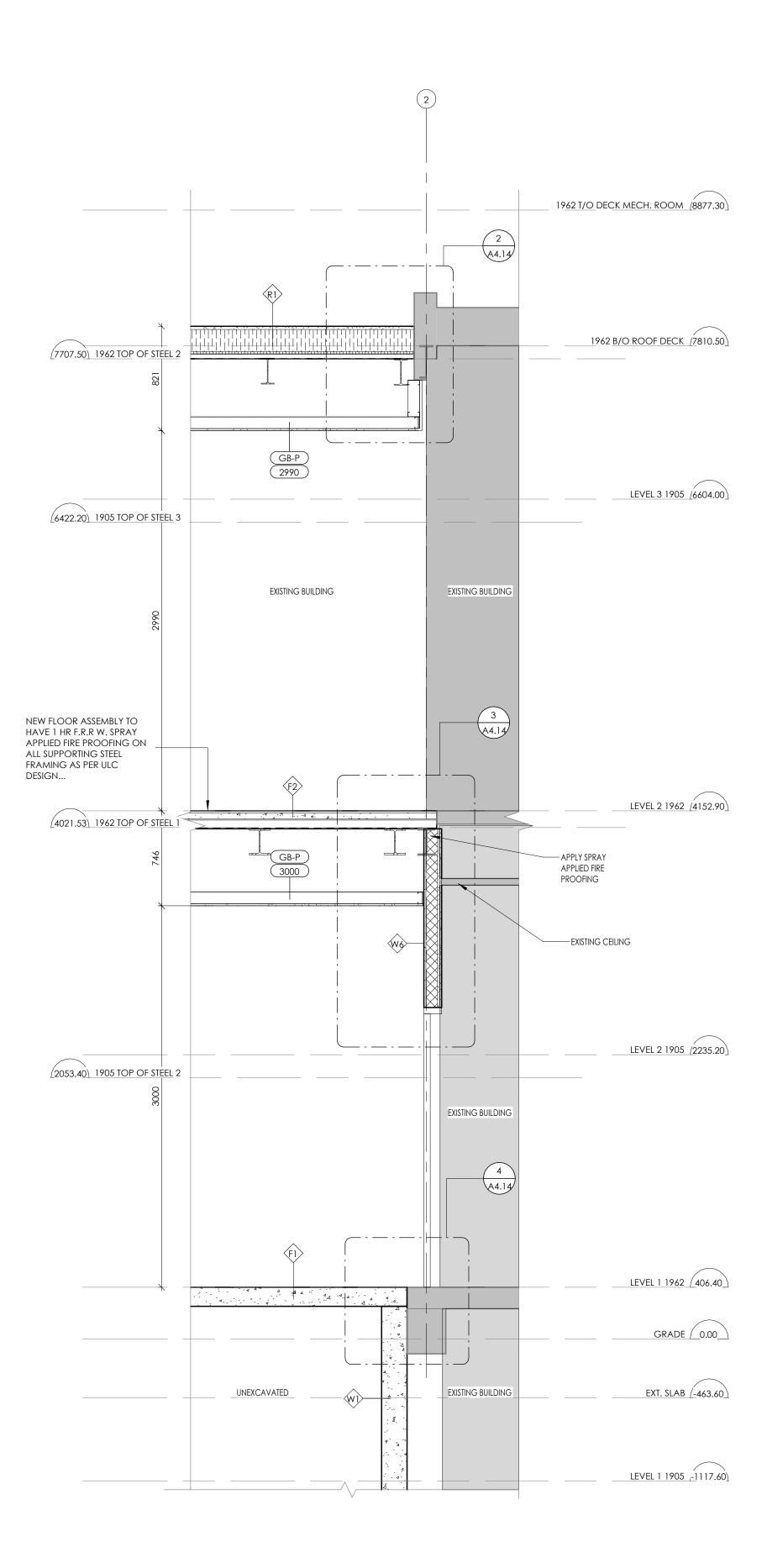


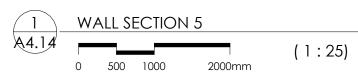




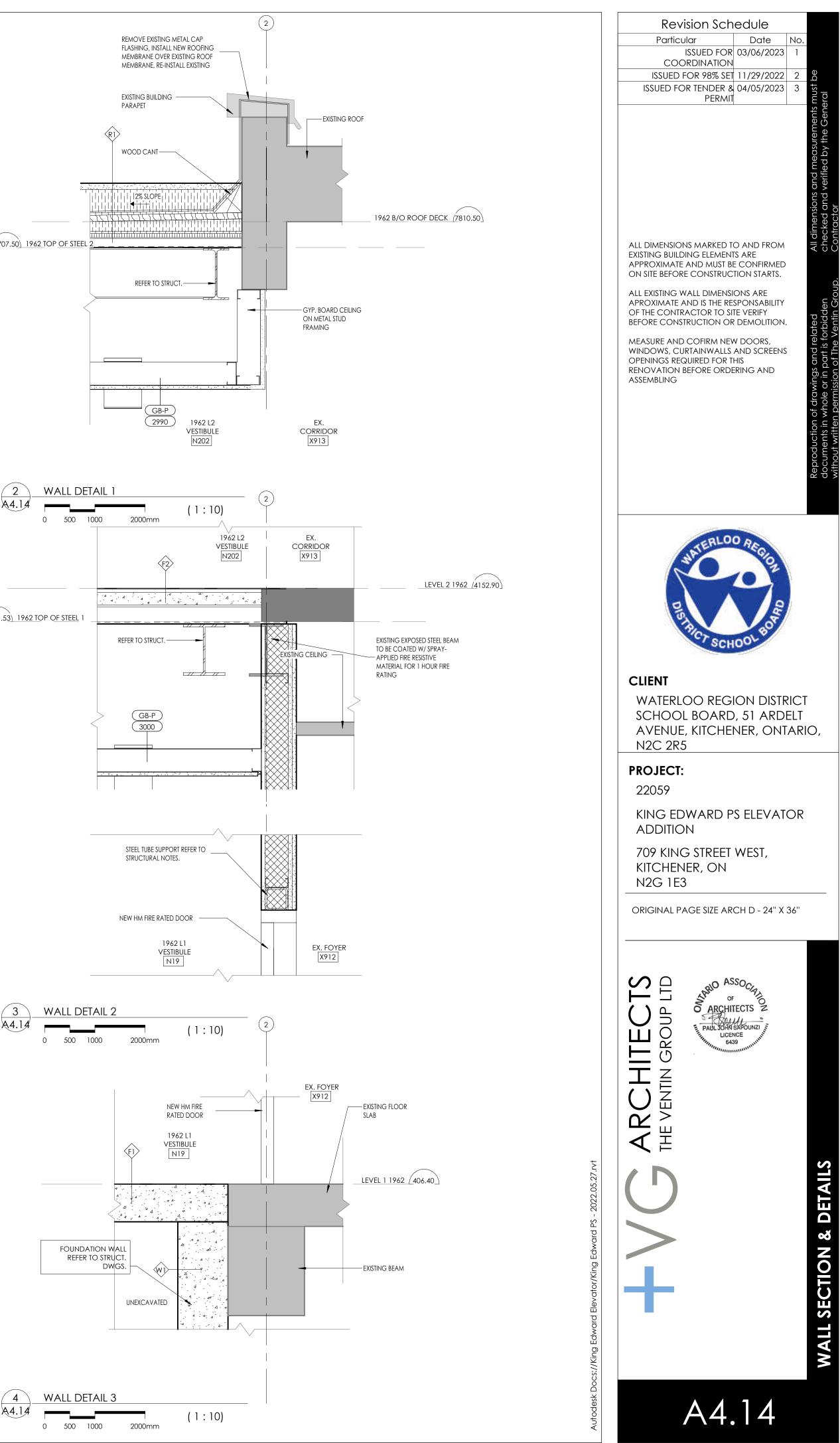


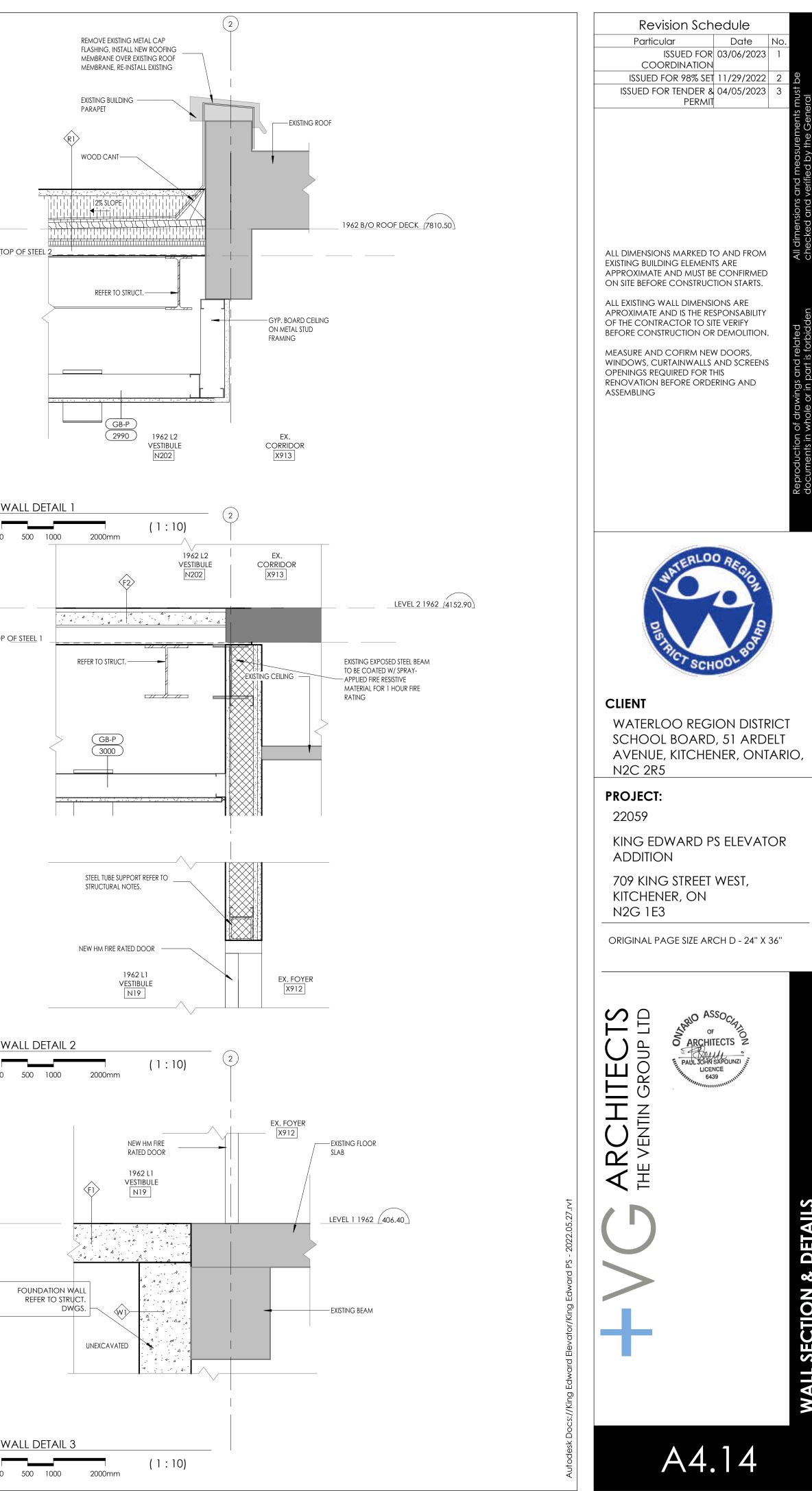
Revision ScheduleParticularDateNo.ISSUED FOR03/06/20231COORDINATION1ISSUED FOR 98% SET11/29/20222ISSUED FOR TENDER & 04/05/20233	þe
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MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING	Reproduction of drawings and related documents in whole or in part is forbidder without written permission of The Ventin G
DISTRICT SCHOOL BOX	
CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTAR N2C 2R5	
PROJECT: 22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 36"	
THE VERTICAL PARTICIPATION OF DATA OF	ALL SECTION & DETAILS
A4.13 Drawn by : AM/LJ Checked by : PV/KC Scale : A	8

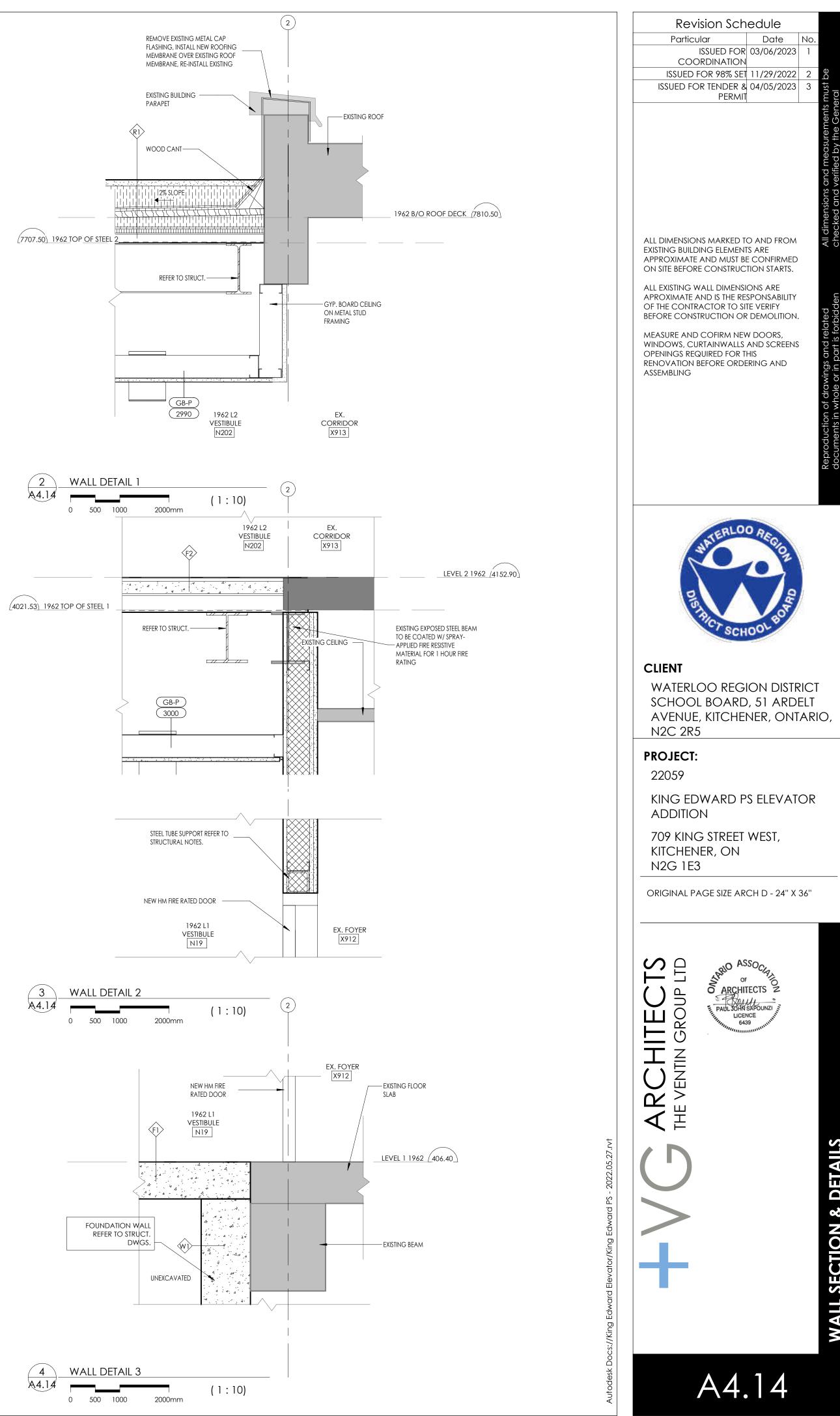


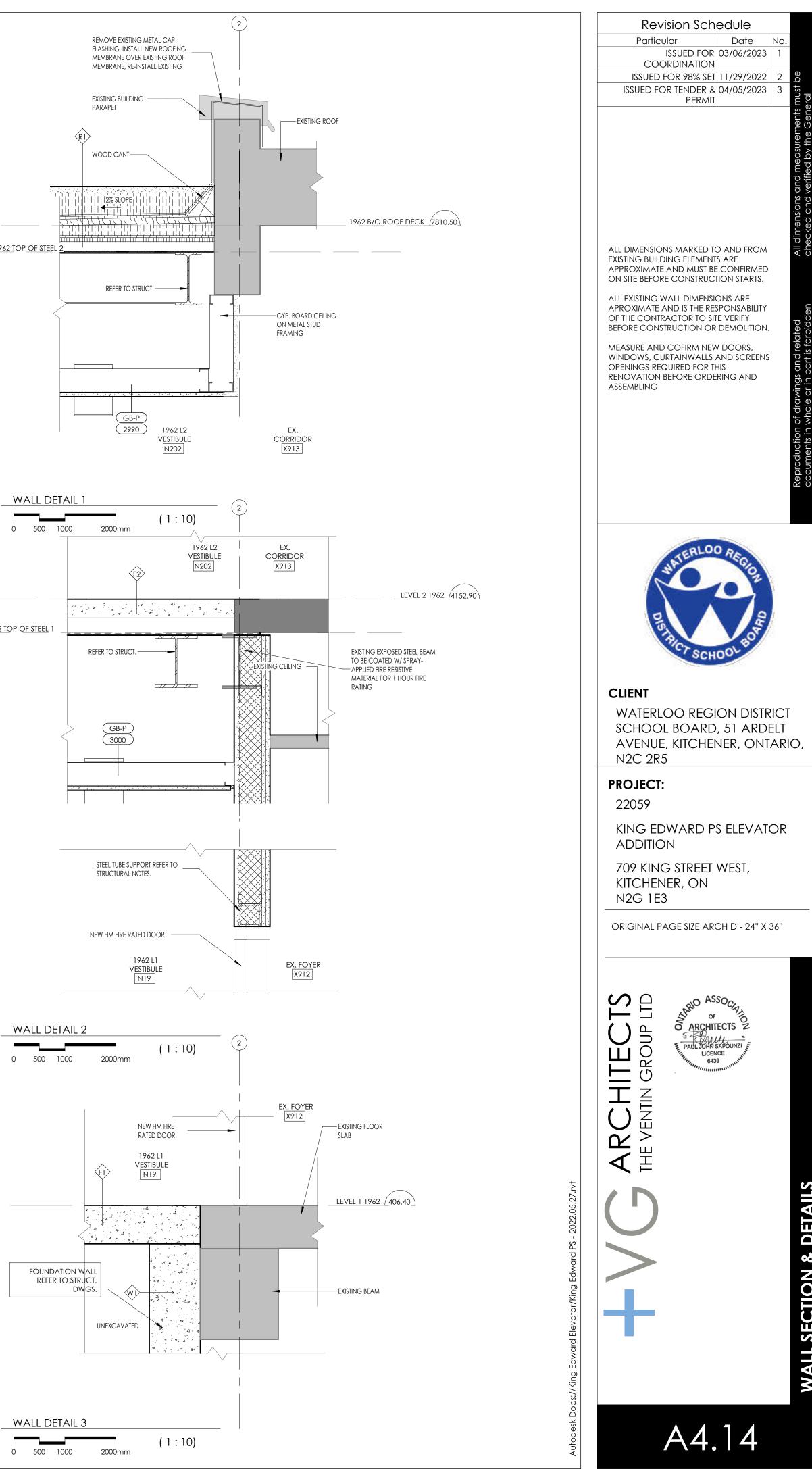




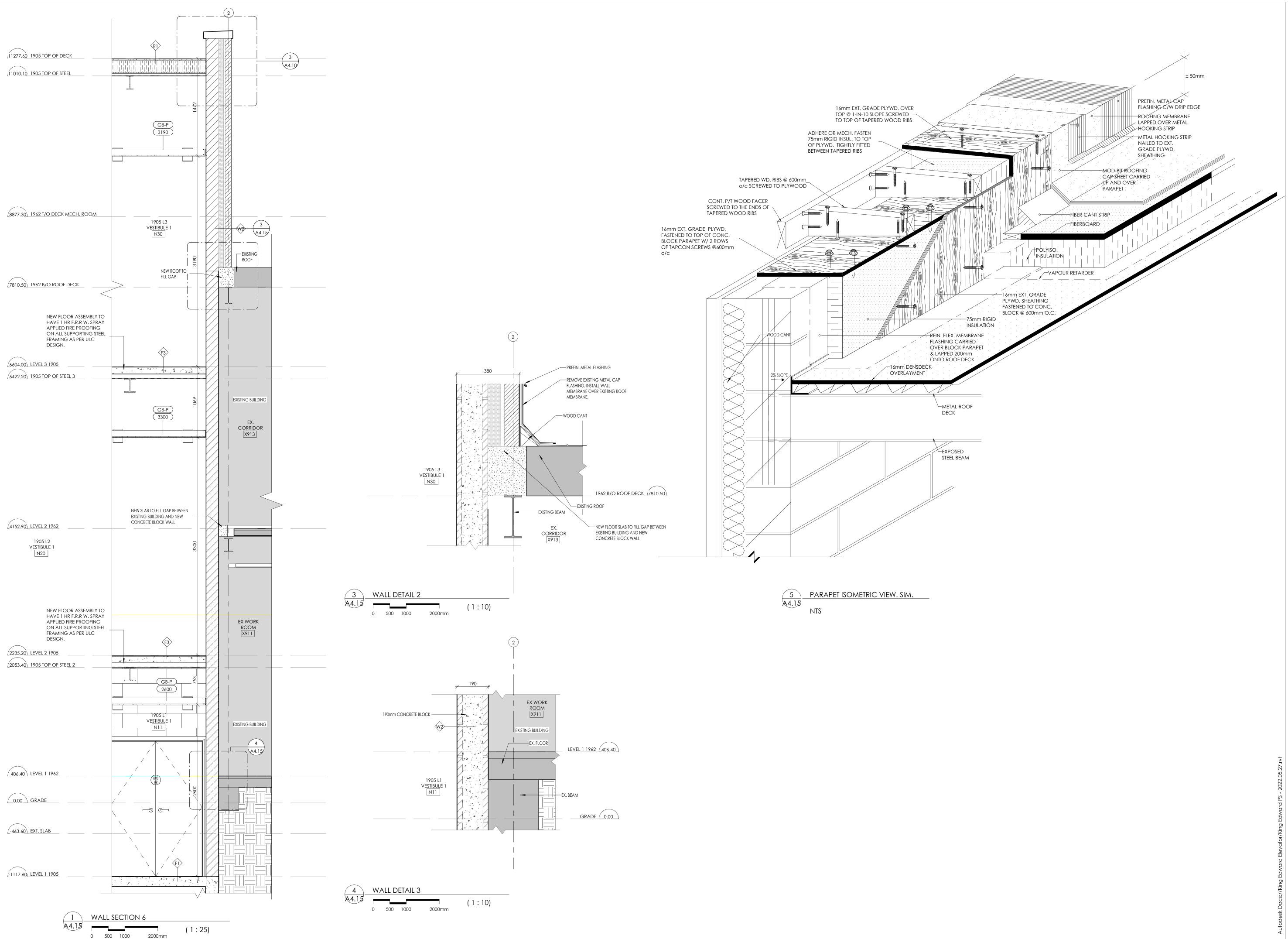




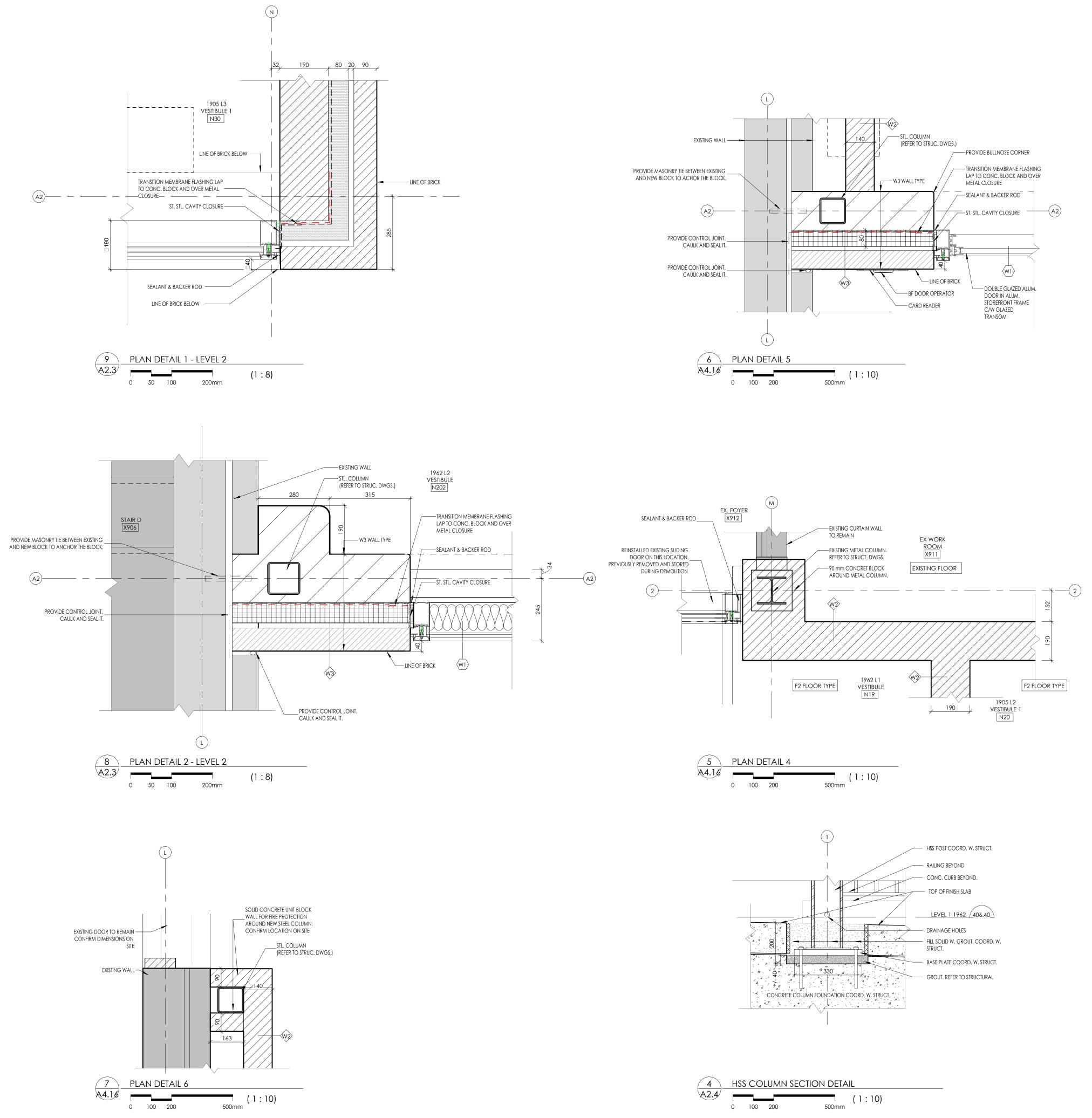


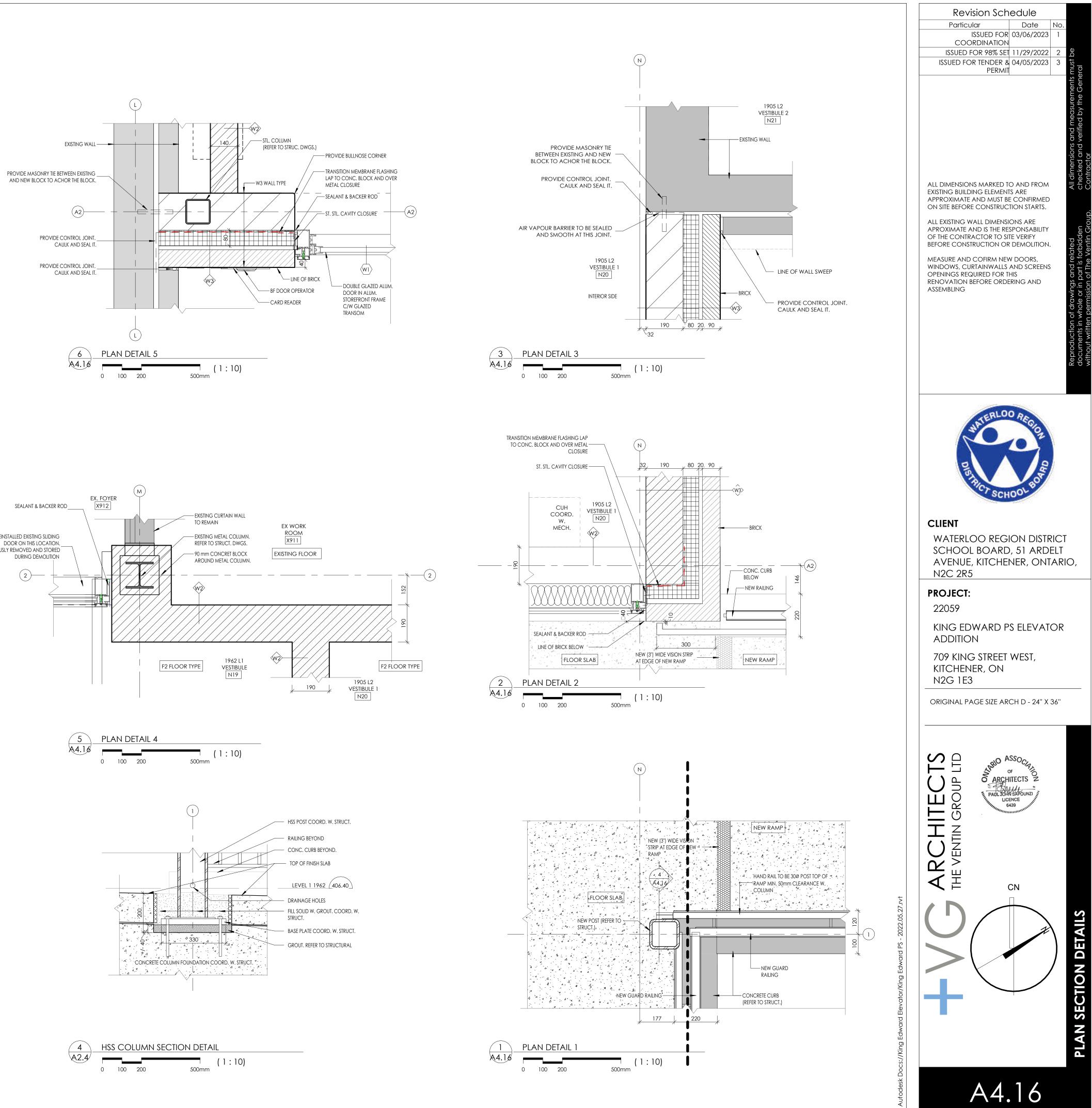


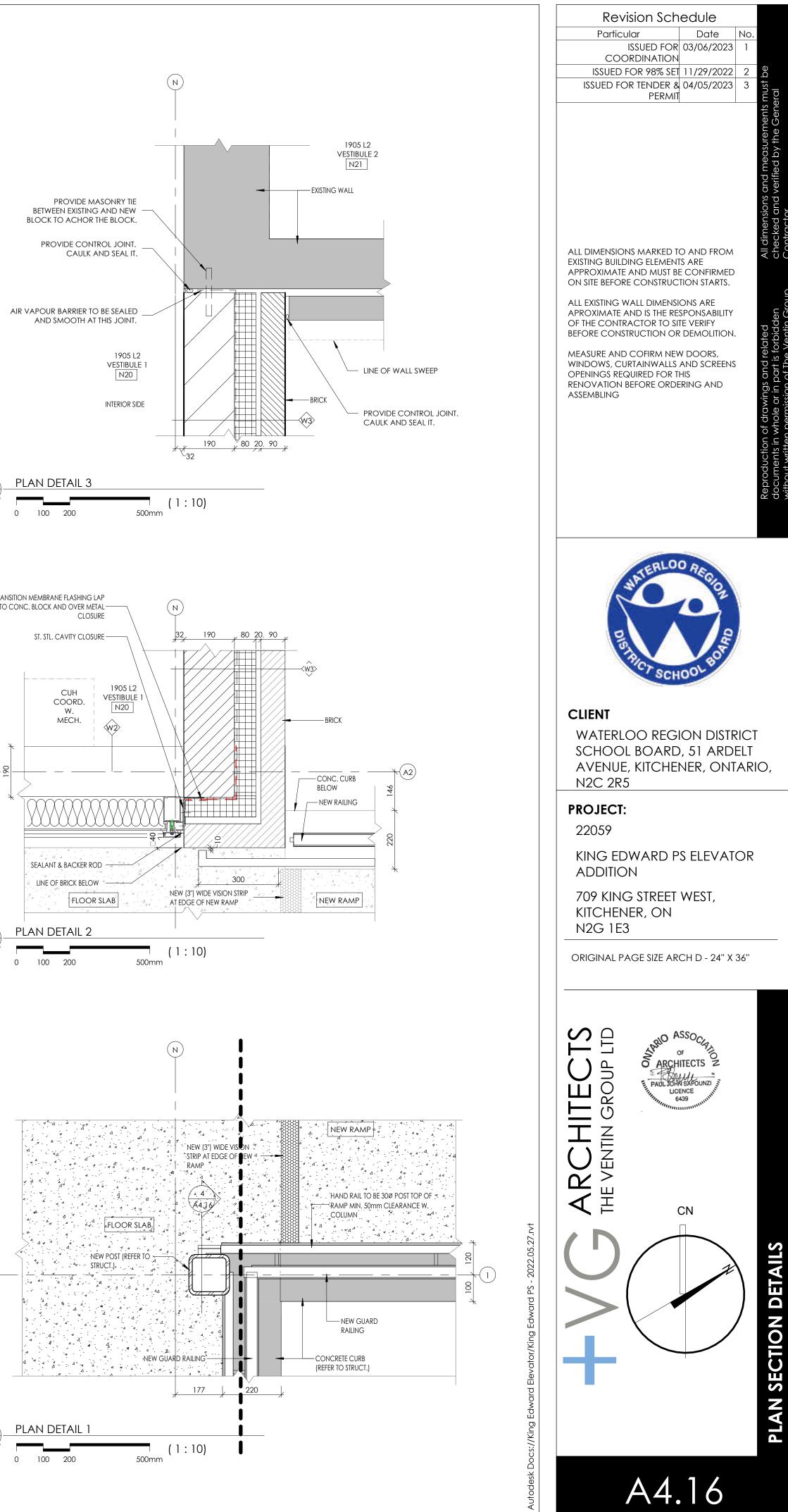
4	WALL DETAIL 3			
A4.14				
	0	500	1000	2000mm



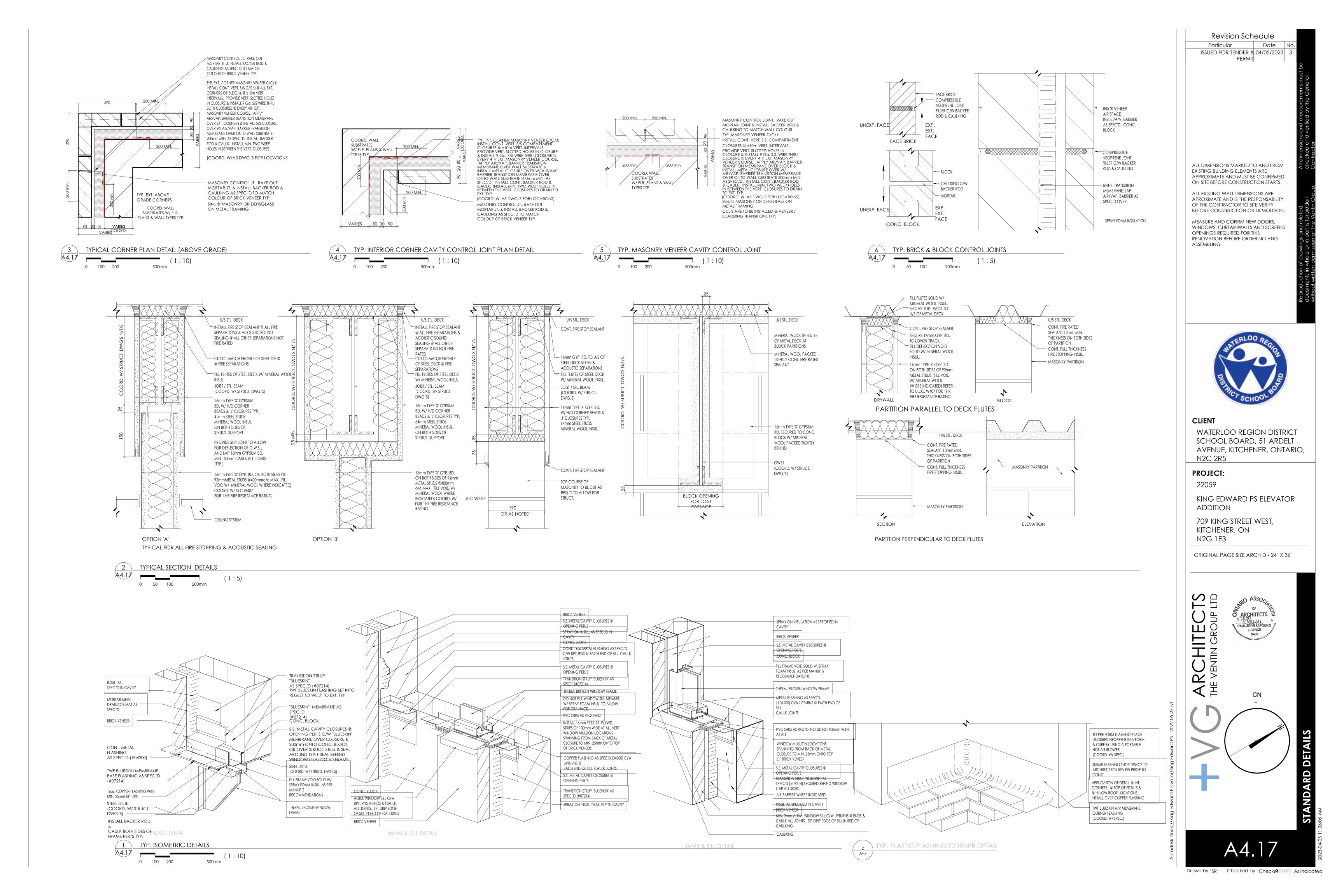
**Revision Schedule** Particular Date ISSUED FOR 03/06/2023 COORDINATION ISSUED FOR 98% SET 11/29/2022 ISSUED FOR TENDER & 04/05/2023 PERMIT ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS. ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING CLIENT WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5 **PROJECT:** 22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24" X 36" ARCHITECTS THE VENTIN GROUP LTD DAUL JOHN SAPOUN LICENCE 6439 DETAILS ంర SECTION A4.15

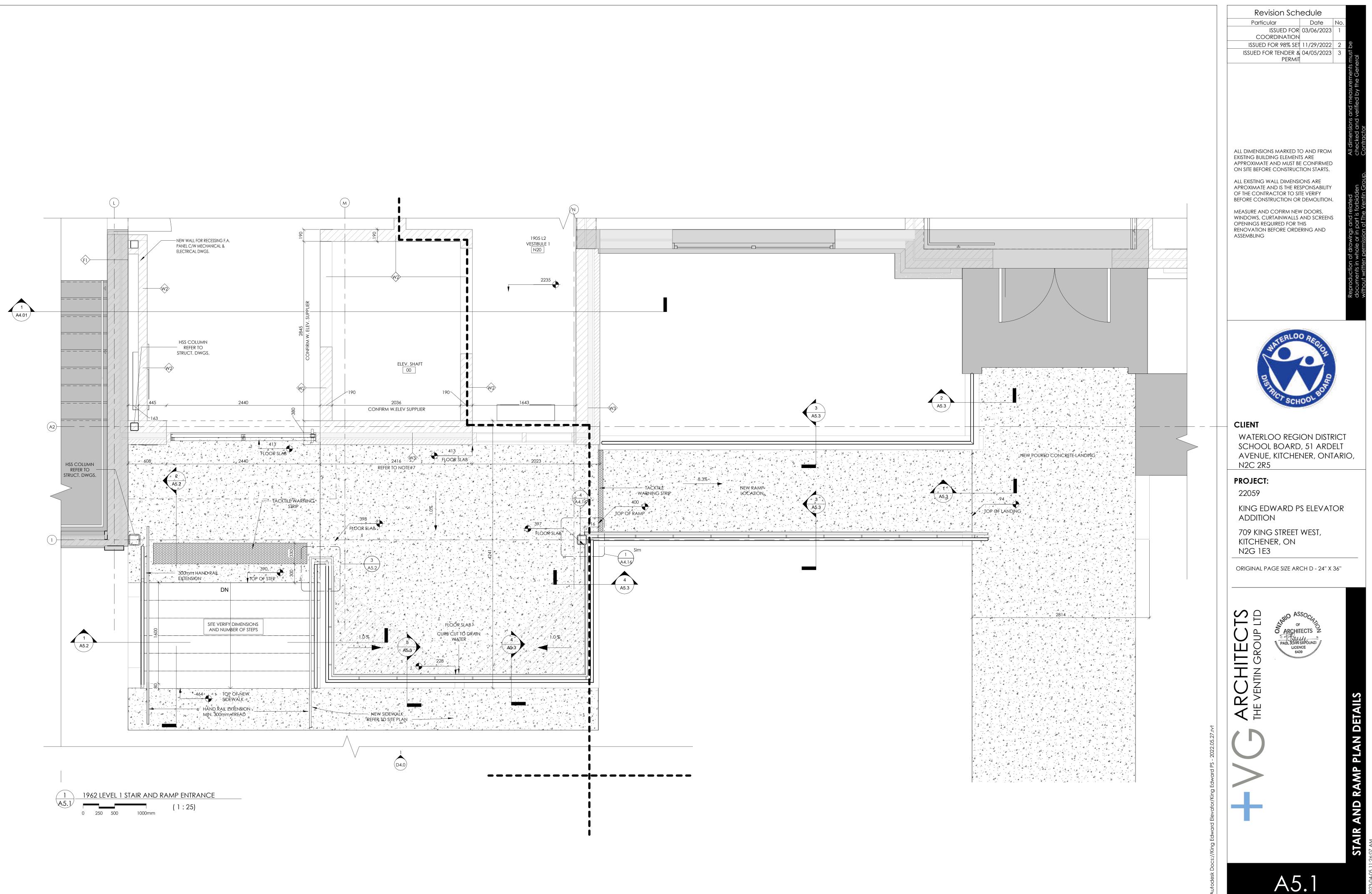


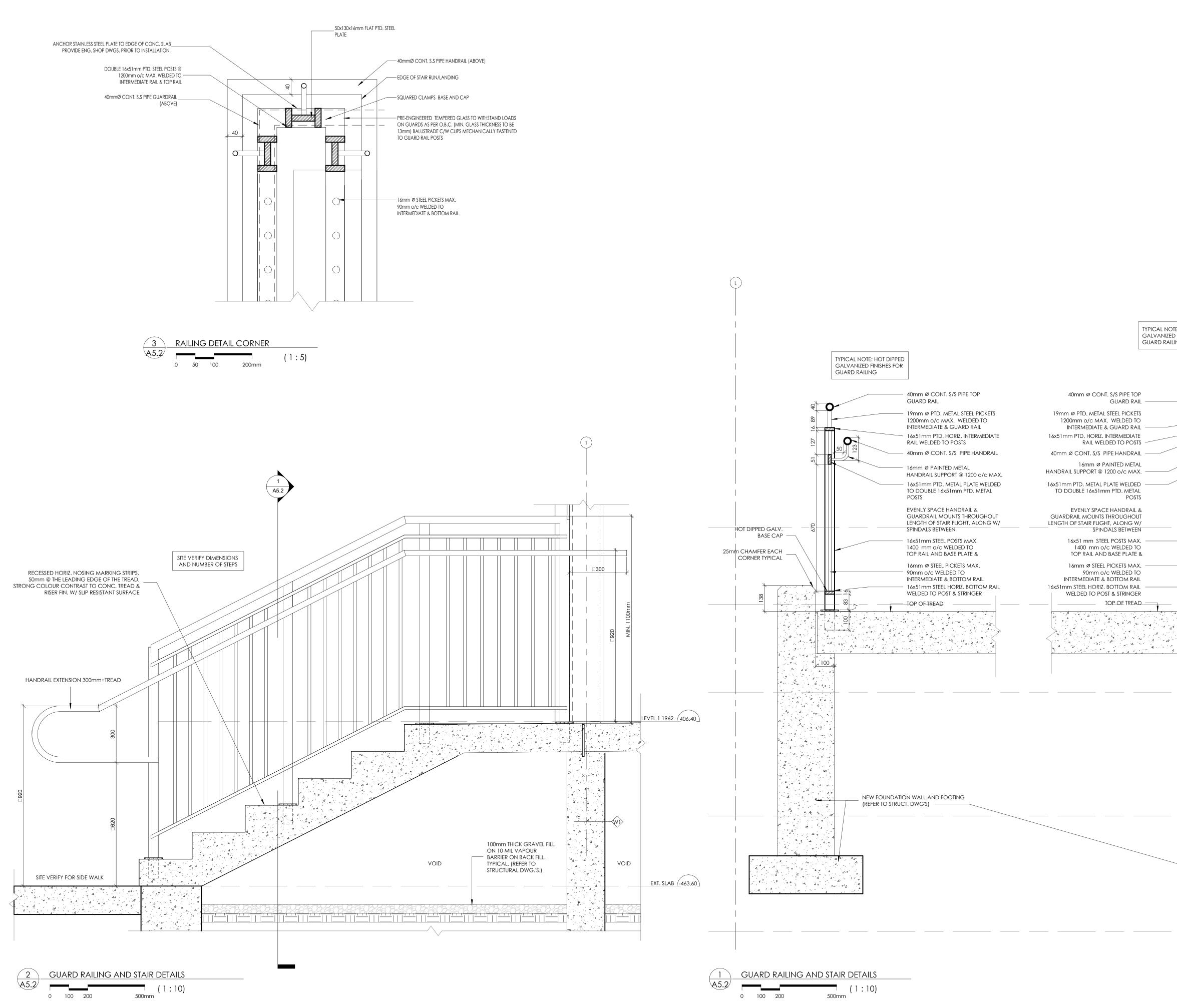


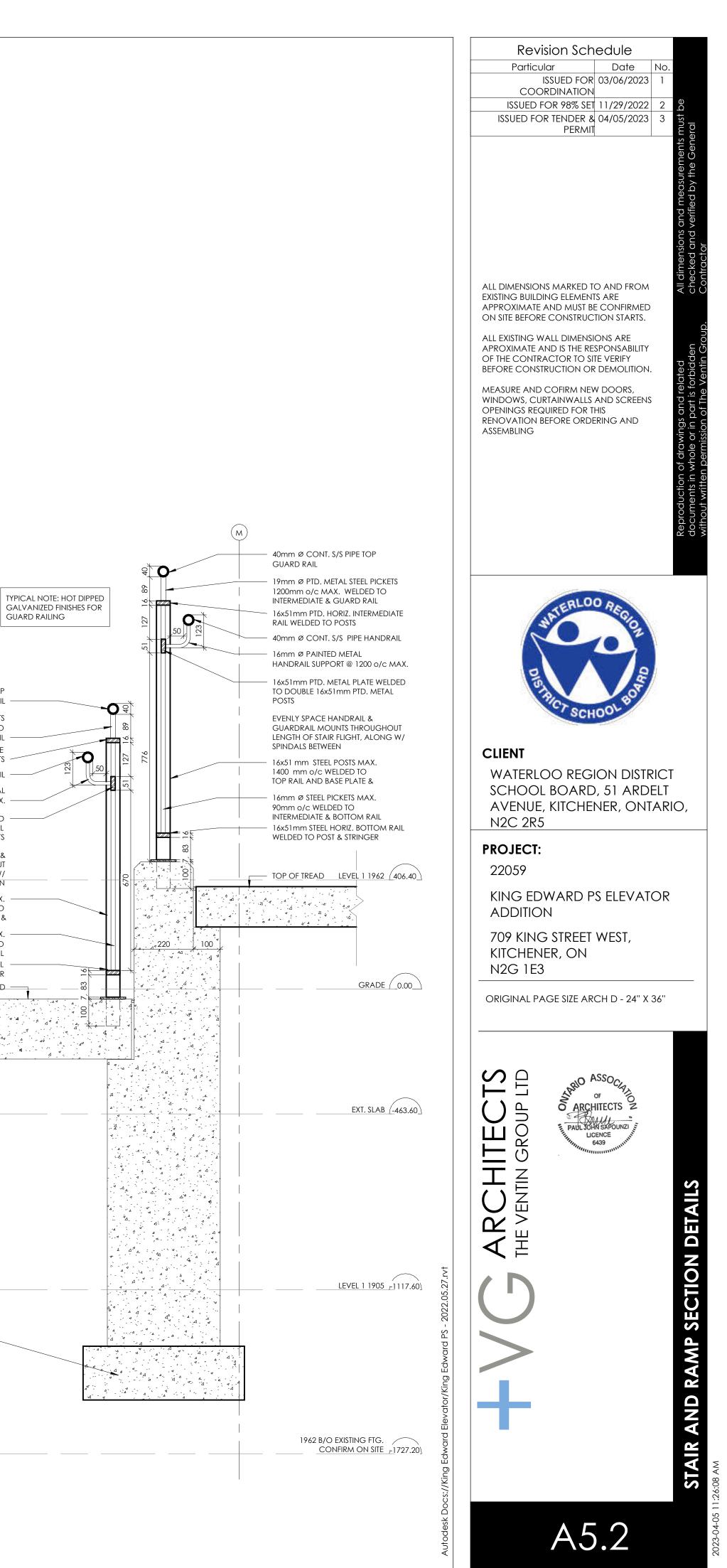




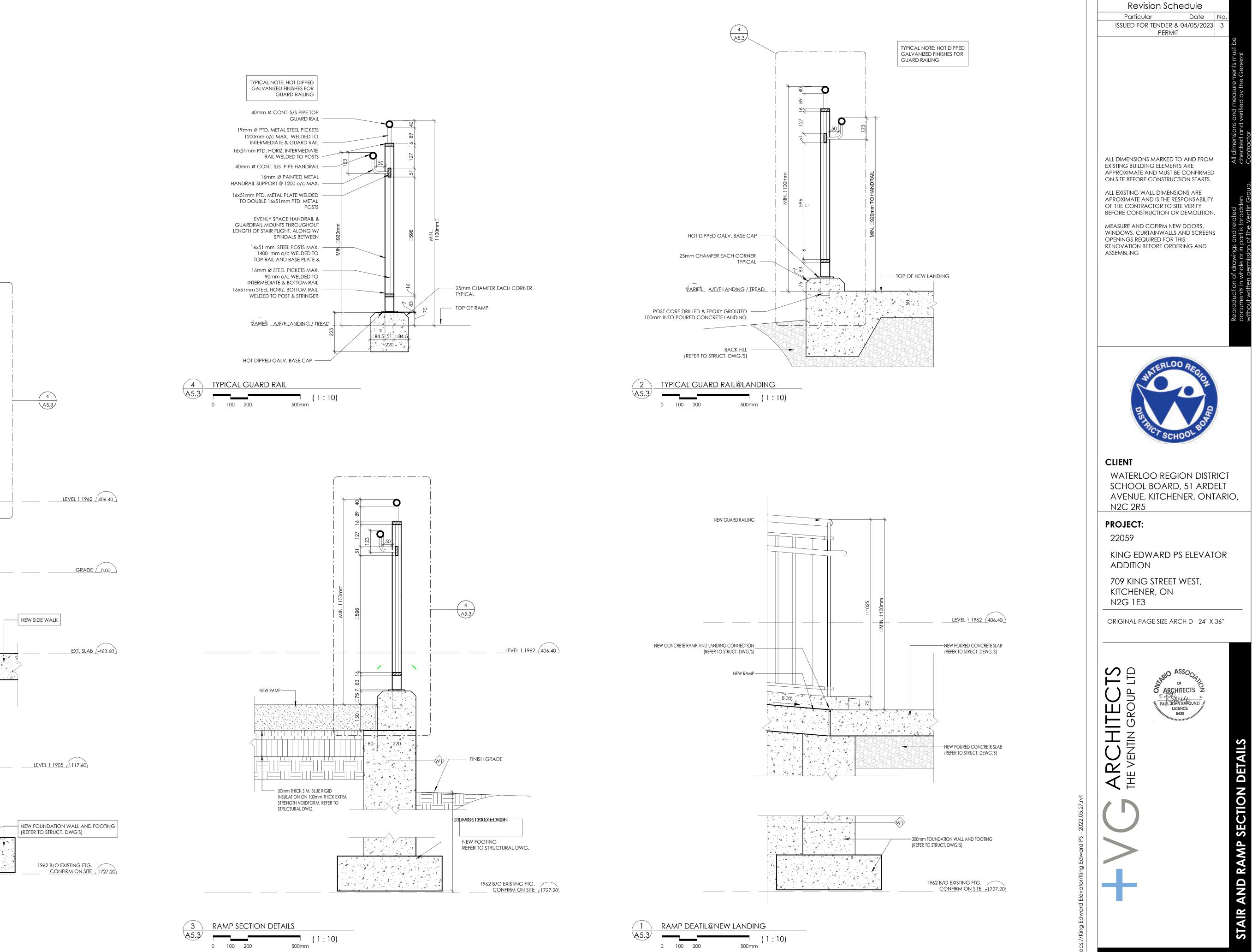


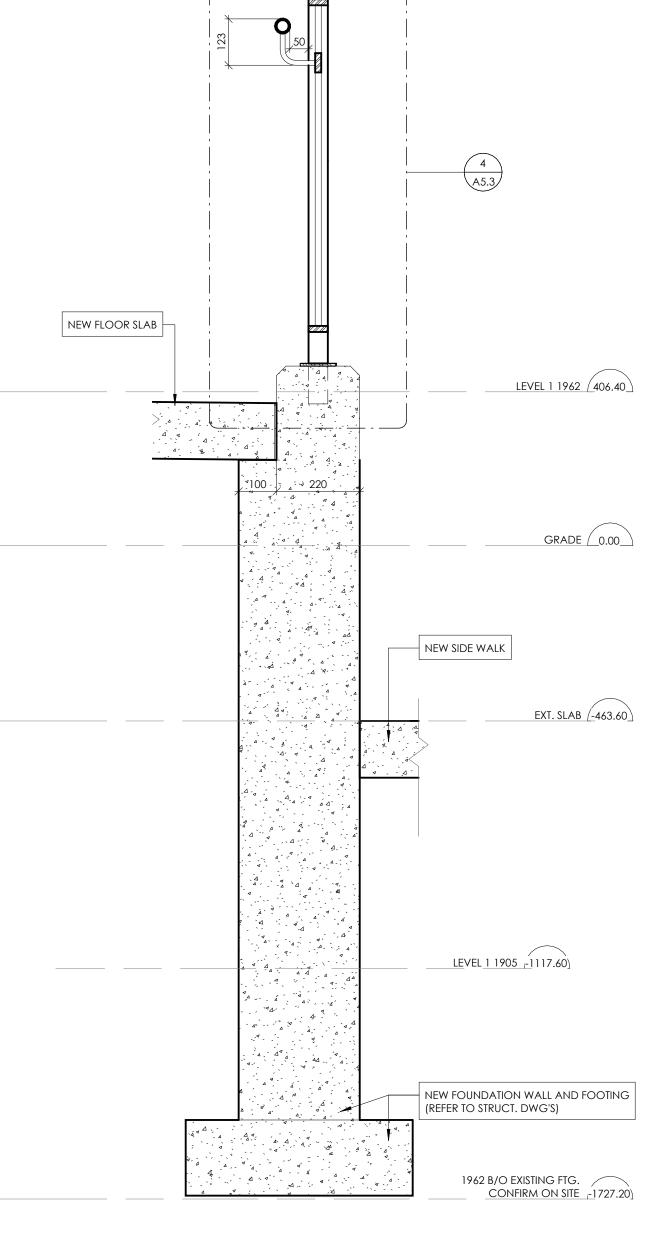






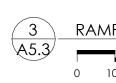
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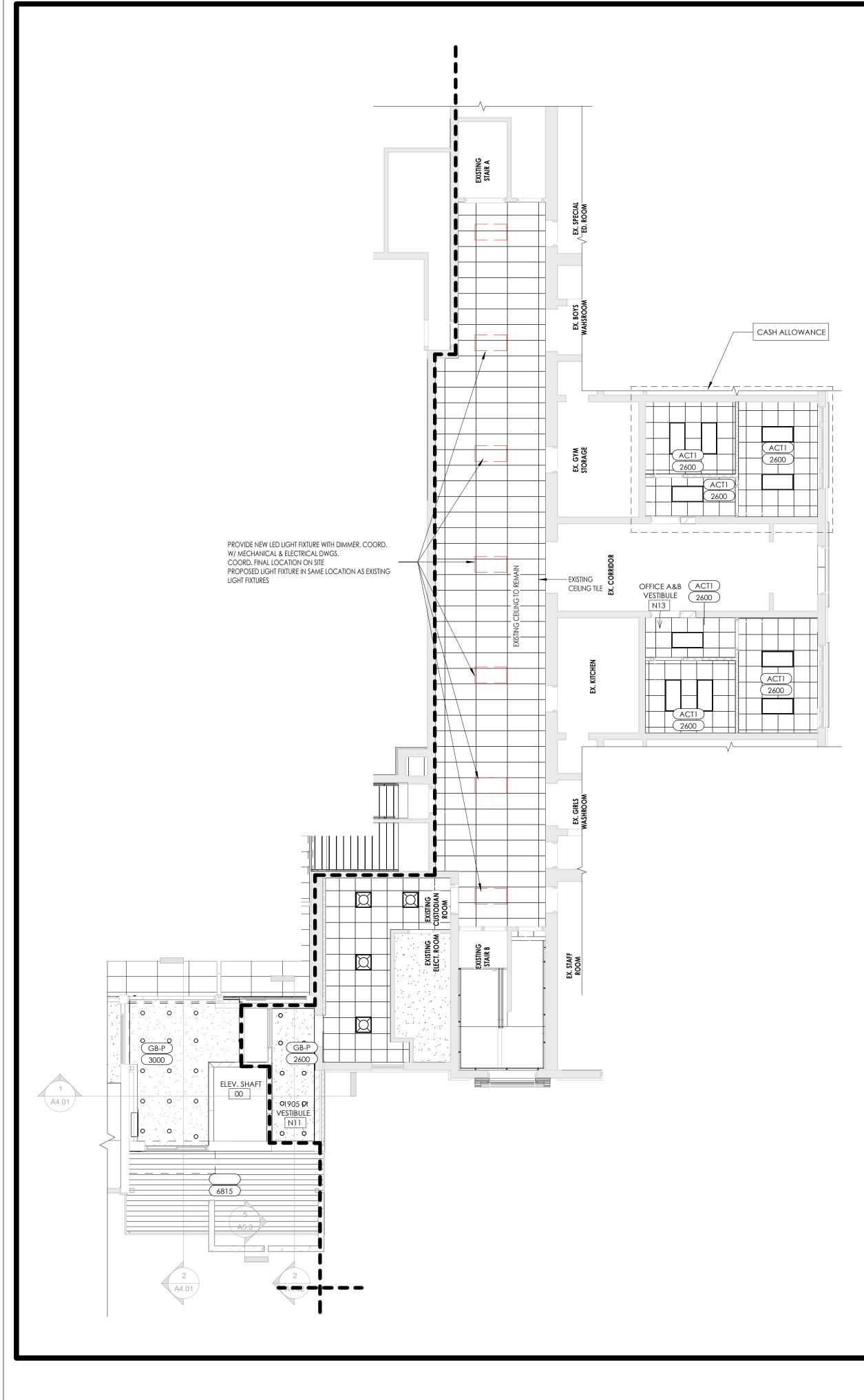


 $\mathbf{O}$ 

5 GUARD RAILING & SLAB SECTION DEATILS A5.3 0 100 200 (1:10) 500mm



A5.3



1 1905 LEVEL 1 & 1962 LEVEL 1 CEILING PLAN 0 1 2 5m (1:100)

A6.1

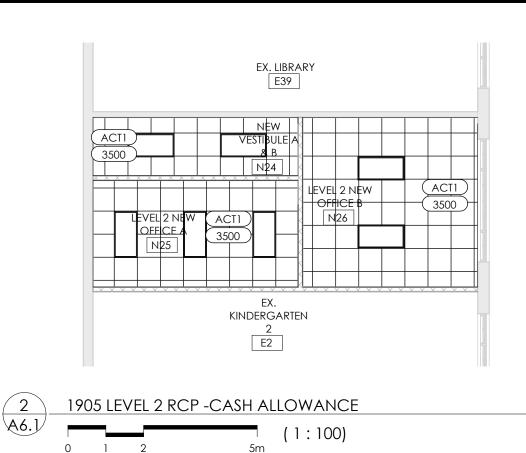
### **GENERAL NOTES**

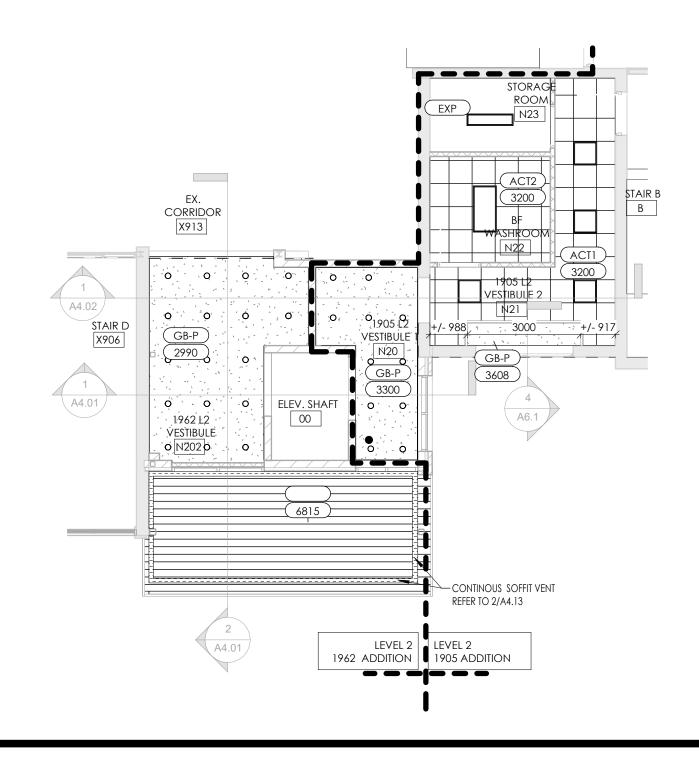
• COORD. W/ MECH. & ELEC. DWG.'S FOR RESPECTIVE CEILING MTD. OR RECESSED ITEMS

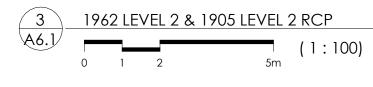
- FINAL LOCATION OF ALL MECH. & ELEC. FIXTURES TO BE CONFIRMED PRIOR TO INSTALL. COORD. ALL MECH. & ELEC. ITEMS W/ ARCH. DWGS. & REPORT ANY DISCREPANCIES PRIOR TO ANY WORK • UNLESS DIMENSIONED OTHERWISE, CEILING TILES TO BE STARTED AS SHOWN FROM THE CENTER POINT OF ROOMS TYP.
- ALL INT. CEILING BULKHEAD SYSTEMS TO BE CONSTRUCTED W/ METAL FRAMING TYP., NOT WD. • ALL GYP BD. CEILINGS ARE TO RECEIVE 13mm RESILIENT CHANNELLING @400mm o/c MAX. &
- ANY ASSOCIATED BLOCKING TO ACHIEVE A UNIFORM / FLAT CEILING SURFACE • SHOP DWG.'S TO BE IN DIMENSION UNITS AS ILLUSTRATED ON THIS DWG. OR THEY WILL BE REJECTED (IMPERIAL & METRIC BOTH SHOWN IS ACCEPTABLE); ALSO AIR GRILLES ARE TO
- REFERENCE THE RM. # THEY ARE INSTALLED (& ANY OTHER ITEMS TYP.) • NOT ALL EXP.'D MECH. EQUIP. / DUCTING IS SHOWN, ONLY LIGHTING OR OTHER IMPORTANT ITEM INFO., COORD. W/ MECH. DWG.'S FOR REMAINING TYP.
- REFER TO & COORD. W. MECH. DWG'S.FOR LOCATION OF DIFFUSERS AND DUCTWORK.
- REFER TO & COORD. W. ELECT. DWG.S' FOR LOCATION AND TYPES OF LIGHT FIXTURES.
- FOR LIGHTS IN EXPOSED AREAS REFER TO & COORDINATE W. ELECTRICAL DWG.S'

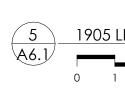


TYPE #	— CEILING TYPE — CEILING HEIGHT (MEASURED FROM )
EXP	ALL EXPOSED CEILI ALL EXP. SERVICE L ALL MASONRY OPE INSTALL ALL LIGHT F MEMBERS & TOP O STRUCT. TYP.
	2X4" RECESSED CEIL (COORD. W/ ELEC.
	2X2" RECESSED CEIL (COORD. W/ ELEC.
Ô	RECESSED POT LIGH





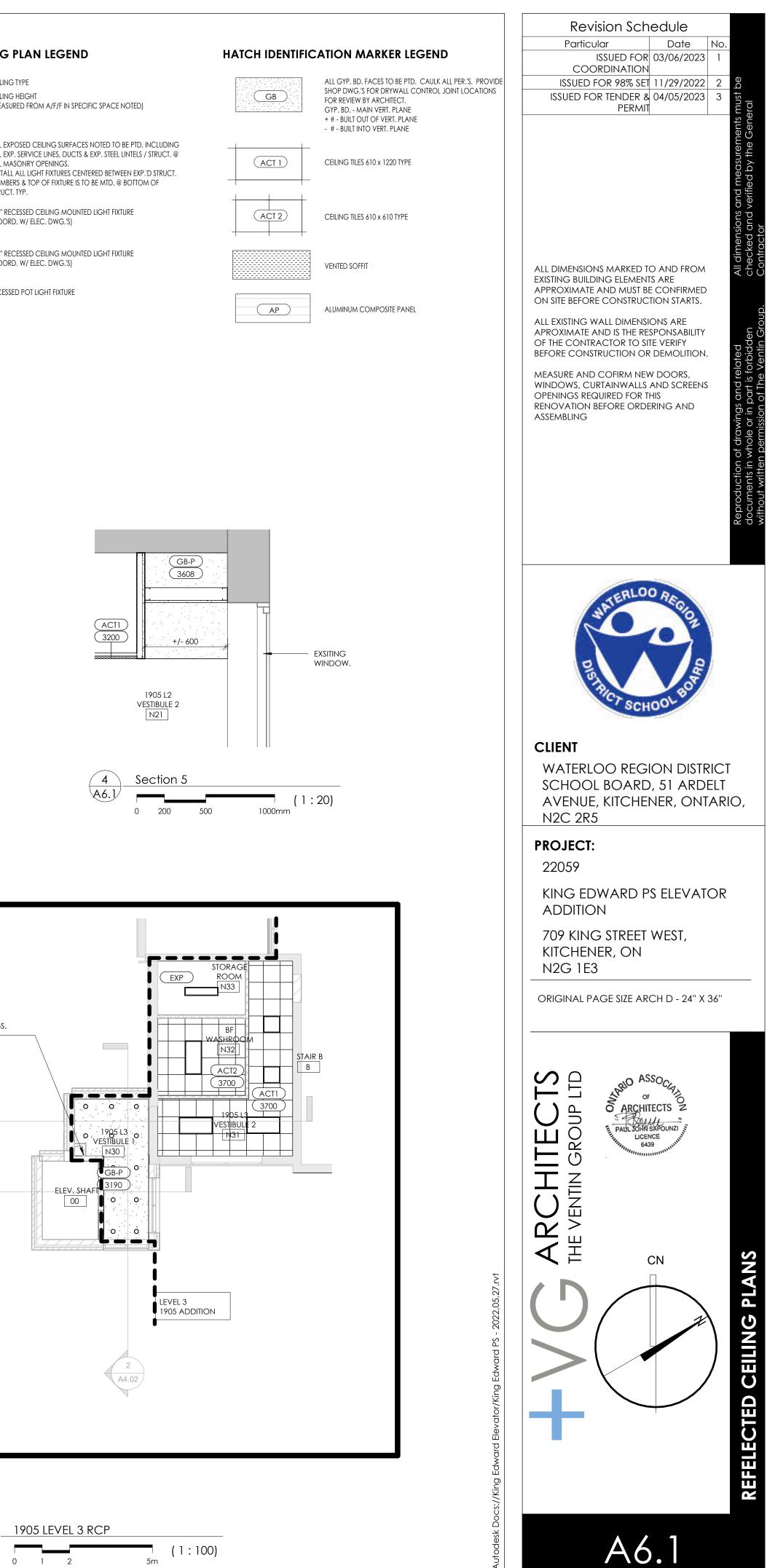




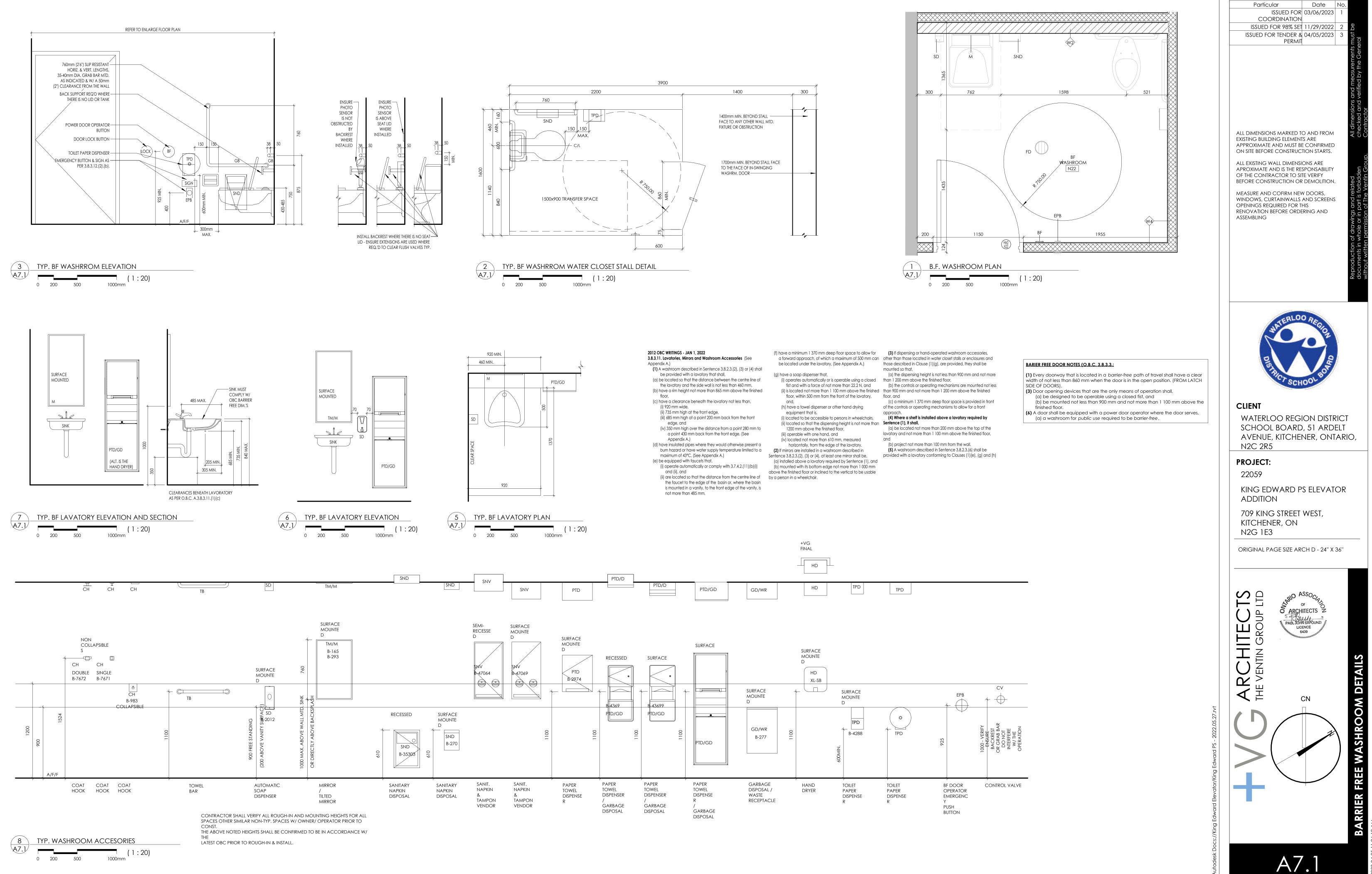
REFER TO MECH. DWGS. FOR CHASE.

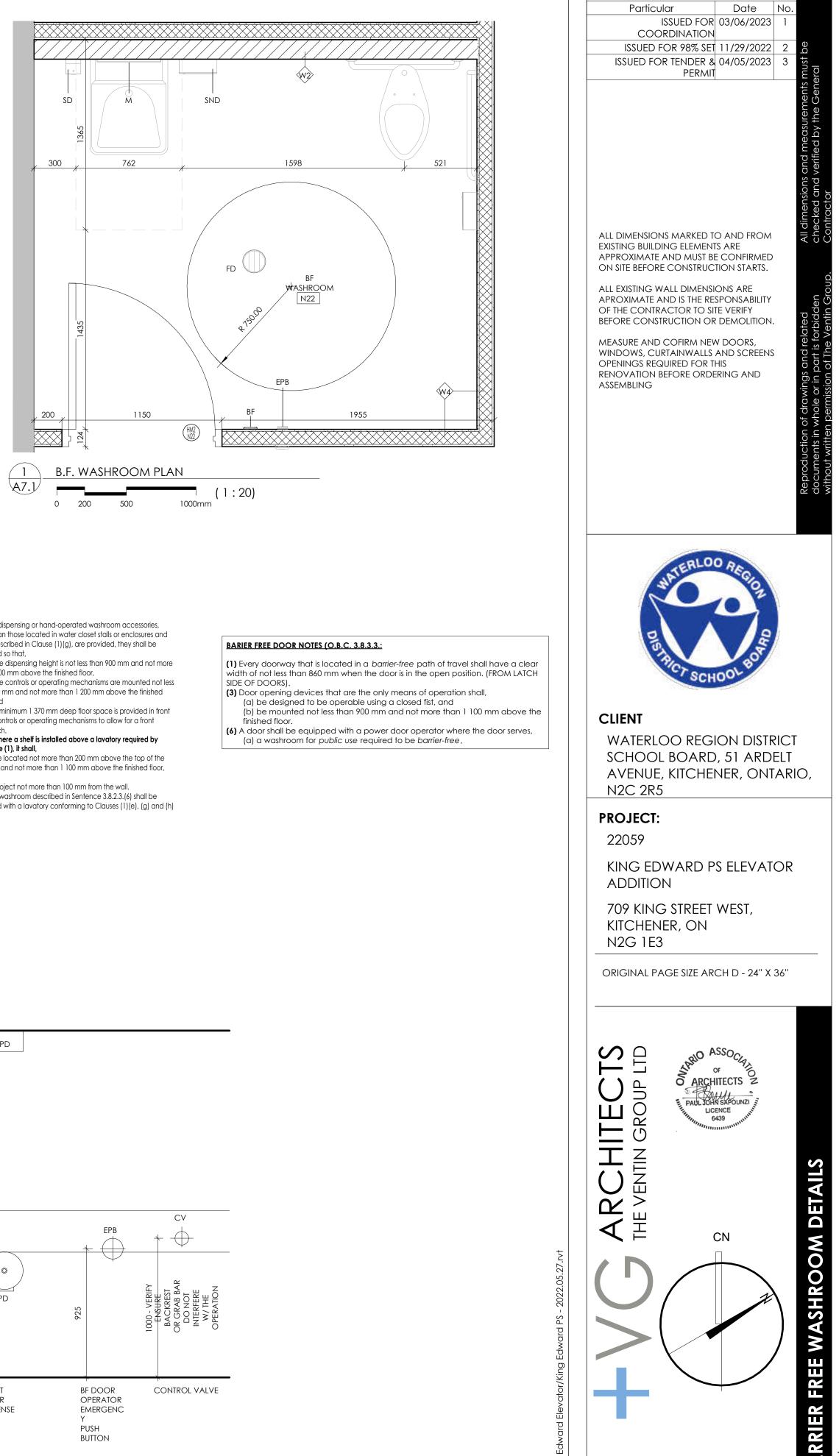
A4.02

(1) (A4.01)



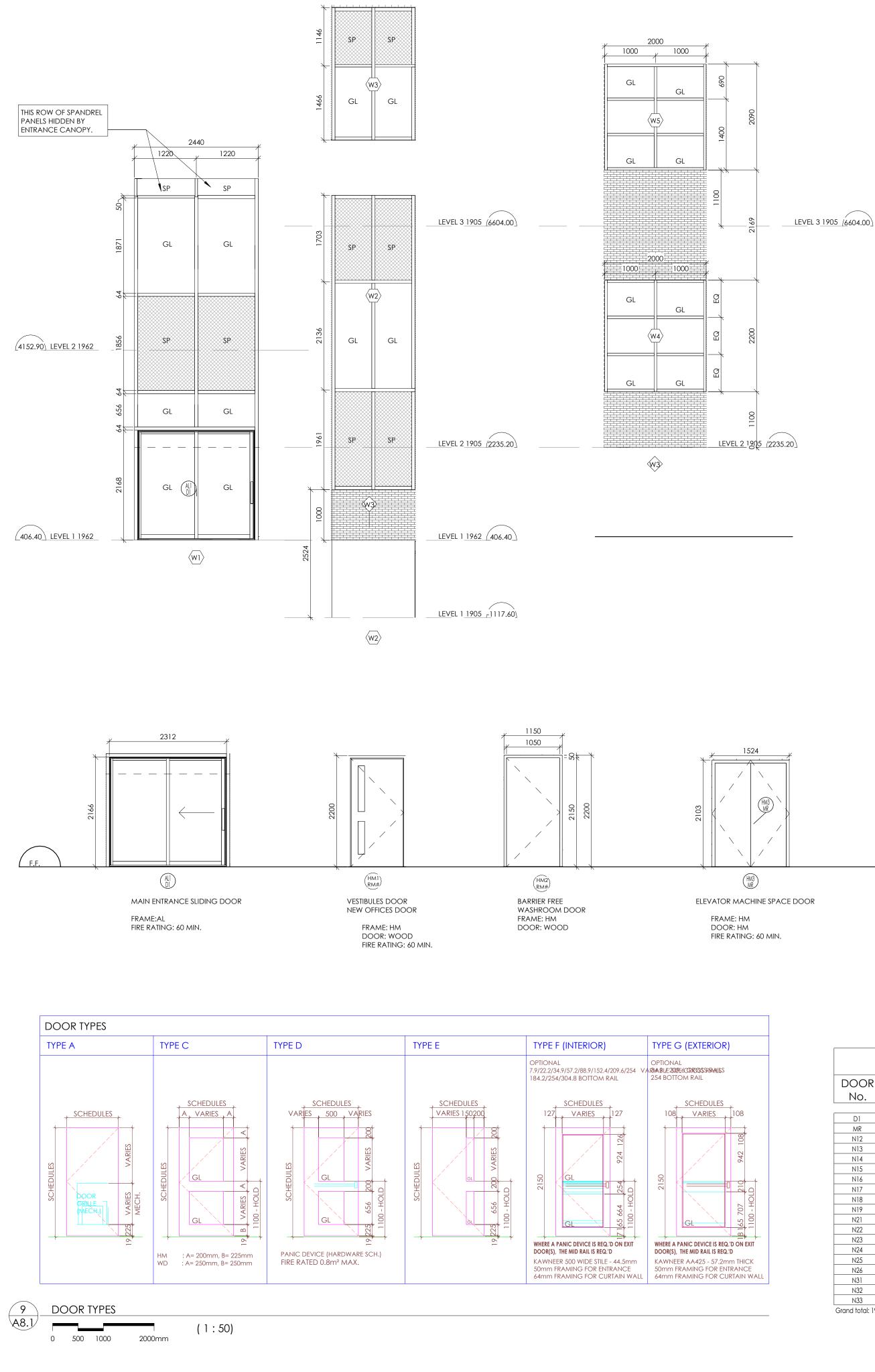
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Drawn by : LJ Checked by : Checke&cale : 1 : 20

**Revision Schedule** 



### **GENERAL NOTES**

PROVIDE SHOP DRAWINGS W/ PROF SIGNATURE FOR REVIEW & APPROVA
IT IS THE RESPONSIBILITY OF THE WIND HARDWARE MANUFACTURER TRADE THEIR WORK TOGETHER.
DIMENSIONS INDICATED ARE R.O DIMENSIONS ON SITE PRIOR TO FABR
ALUMINUM NOTES

1. INDICATED DIMENSIONS ARE APPROXIMATE ROUGH OPENINGS. CONTRACTOR TO VERIFY ALL OPENINGS & COLUMN LOCATIONS ON SITE PRIOR TO FABRICATION OF CURTAINWALLS & WINDOWS.

2. COORD. W/ BUILDING ELEVATIONS & FLOOR PLANS FOR LOCATIONS & QUANTITY OF CURTAIN WALLS & WINDOWS.

3. COORD. W/ BUILDING ELEVATIONS FOR LOCATIONS WHERE OPERATOR LOCATIONS ARE REVERSED & OR UNITS ARE MIRROR IMAGES OF UNITS SHOWN ON THIS SCHEDULE.

4. SHOP DWG.'S TO BE IN DIMENSION UNITS AS ILLUSTRATED ON THIS DWG. OR THEY WILL BE REJECTED (IMPERIAL & METRIC BOTH SHOWN IS ACCEPTABLE)

RESISTANCE RATINGS FOR EXPOSURE SITUATIONS; HM FRAMING TO BE IMPLEMENTED BEHIND OPENING FRAMING TO NEAREST VERT. &/OR HORIZ. FRAMING MEMBER. (DOOR & FRAME / SCREEN SCH. NOTES 1 & 2 APPLICABLE)

CLEAR ANODIZED FRAMING TYPICAL. BLACK ANODIZED CAPS AND OPERATORS TYPICAL.

### <u>GLAZING:</u> ALL VISION AND SPANDREL UNITS TO BE DOUBLE GLAZED SEALED UNITS.

VISION GLAZING: (REFER TO SPECS) - EXTERIOR FACE - TINTED TEMPERED GLASS AS SPECIFIED - INTERIOR FACE - CLEAR TEMPERED GLASS AS SPECIFIED

SPANDREL GLAZING: (REFER TO SPECS) - EXTERIOR FACE - CLEAR STARFIRE TEMPERED GLASS - INTERIOR FACE - GRAY BALCK PAINTED CLEAR STARFIRE TEMPERED GLASS

OPERATORS: INTEGRAL AWNING STYLE OPERATOR C/W FLY SCREEN TYPICAL. BLACK ANODIZED FINISH TYPICAL. REFER TO SPECIFICATIONS.

### DOORS: STYLE AS INDICATED. CLEAR ANODIZED FINISH W/ BLACK GLAZING STOPS.

TEMPERED ON INNER PANE AND AT INTERIOR SINGLE GLAZED LOCATIONS.

# HATCH IDENTIFICATION MARKER LEGEND

GL	VISION GLAZING AS SPECIFIE
SP	SPANDREL GLAZING AS SPEC COLOURS TO BE SELECTED B

# SHOP DRAWINGS

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE; DOOR(S), SCREEN(S), WINDOW(S), CURTAIN WALL(S), FRAME(S), & THEIR HARDWARE MANUF.'S TRADES COORD. & EXECUTE THEIR WORK TOGETHER & LABEL IDENTIFYING INFO. FOR ALL DOOR(S), SCREENS(S), WINDOW(S), CURTAIN WALL(S), FRAME(S) SCHEDULES TO MATCH THE IDENTIFICATION TAG LABELS HERE, NOT HAVING DIFF. LABELS & DIM. UNITS ON SHOP DWG.'S THAN TENDERED DOCUMENTS TYP. (REVISE & RESUBMIT SHOP DWG.'S WILL BE RETURNED IF THIS FORMAT IS NOT FOLLOWED W/ NO REVIEW UNDERTAKEN) UNIVERSAL WASHROOM DOOR PACKAGE TO INCLUDE:

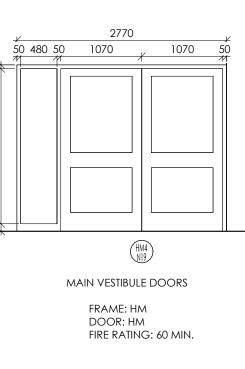
### POWER DOOR OPERATOR OCCUPIED LIGHT POWER DOOR OPENER BUTTONS

 PUSH LOCK PUSH UN-LOCK

 ELECTRIC STRIKE EMERGENCY CALL SYSTEM WITH AUDIBLE & VISUAL

SIGNAL DEVICES INSIDE & OUTSIDE OF WASHROOM EMERGENCY SIGN

	WINDOW SCHEDULE						
NO.	TYPE	MTL.	FIN	HEAD	JAMB	DEPTH	GLASS
W1	STOREFRONT	AL	ANO	64	64	150	T
W2	STOREFRONT	AL	ANO	64	64	150	T
W3	STOREFRONT	AL	ANO	64	64	150	T
W4	STOREFRONT	AL	ANO	50	50	150	T
W5	STOREFRONT	AL	ANO	50	50	150	T



					DOC	OR SCHEI	DULE					
DOOR	FROM	TO	DOOR			Door	Door	Llagd	lanab	Frame		
No.	FROM	TO	TYPE	WIDIH	HEIGHT	Material	Thickness	Head	Jamb	Depth	TYPE	
D1	EXTERIOR	1962 L1 VESTIBULE	AL1	2312.00	2168.00	AL	32.00	64	64	150	F	MAIN ENTR.
MR	1905 L1 VESTIBULE 1	ELEV. MACH ROOM	HM3	1524.00	2110.00	НМ	50.00	50	50	150	A	60 FIRE RAT
N12	EX. CORRIDOR	1905 L1 VESTIBULE 2	HM1	1050.00	2150.00	НМ	50.00	50	50	150	E	60 FIRE RAT
N13	EX. CORRIDOR	OFFICE A&B VESTIBULE	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	60 FIRE RAT
N14	OFFICE A&B VESTIBULE	NEW OFFICE A	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	
N15	OFFICE A&B VESTIBULE	NEW OFFICE B	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	
N16	EX. CORRIDOR	OFFICE C & D VESTIBULE	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N17	OFFICE C & D VESTIBULE	NEW OFFICE C	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N18	OFFICE C & D VESTIBULE	NEW OFFICE D	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N19	EX. FOYER	1962 L1 VESTIBULE	HM4	2140.00	2150.00	HM	50.00	50	50	150		60 FIRE RAT
N21	STAIR B	1905 L2 VESTIBULE 2	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	60 FIRE RAT
N22	1905 L2 VESTIBULE 2	BF WASHROOM	HM2	1050.00	2150.00	HM	50.00	50	50	150	A	VENT GRILL
N23	STORAGE ROOM	1905 L2 VESTIBULE 2	HM2	1050.00	2150.00	HM	50.00	50	50	150	A	
N24	EX. CORRIDOR	NEW VESTIBULE A & B	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N25	NEW VESTIBULE A & B	LEVEL 2 NEW OFFICE A	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N26	NEW VESTIBULE A & B	LEVEL 2 NEW OFFICE B	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	CASH ALLC
N31		1905 L3 VESTIBULE 2	HM1	1050.00	2150.00	HM	50.00	50	50	150	E	
N32	1905 L3 VESTIBULE 2	BF WASHROOM	HM2	1050.00	2150.00	HM	50.00	50	50	150	A	VENT GRILL
N33	1905 L3 VESTIBULE 2	STORAGE ROOM	HM2	1050.00	2150.00	HM	50.00	50	50	150	A	

NINWALL PANELS, LOCATED GRADE, WHERE BELOW LEVEL SHALL BE ENGINEERED REMENTS OF THE O.B.C
essional engineers seal &

NDOW, CURTAIN WALL & DES TO CO-ORDINATE & EXECUTE

- VERIFY ALL OPENING BRICATION & ORDERING

5. COORD. W/ FLR. PLANS ON LIFE SAFETY DWG.('S) FOR FIRE SEPARATIONS REQ.'G FIRE

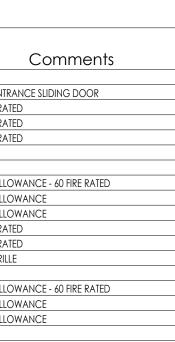
6. COORD. W/ TYP. DOOR & WINDOW DETAILS PROVIDED.

THERMALLY BROKEN, ALUMINUM CURTAIN WALL FRAMING. REFER TO SPECIFICATIONS.

DOOR GLAZING TO BE CLEAR LAMINATED SAFETY GLASS ON OUTER PANE AND CLEAR SINGLE

IED

ECIFIED ARCHITECT - ALLOW 3 COLOURS TOTAL



### GENERAL NOTES:

COORD. W/ FLOOR PLANS & ELEVATIONS FOR LOCATIONS, REQ.'D FRAME WIDTH, 170° DOOR SWINGS & QUANTITY OF REQ.'D DOORS, FRAMES & SCREENS.

ALL FINISH HARDWARE INFO. TO BE COORDINATED & VERIFIED W/ THE APPROVED HARDWARE SCHEDULE, INCLUDING BUT NOT LIMITED TO HOLD OPEN DEVICES, ELECTRIC STRIKES, SECURITY KEYPADS, AUTO DOOR OPENERS, CLOSERS, PANIC DEVICES, MAGNETIC HOLD-OPENS, OVERHEAD STOPS, PUSH PLATES, KICK PLATES & ANY OTHER DOOR HARDWARE REQ.'S.

COORD. W/ ELEC. DWG.'S FOR EXIT SIGN & ELEC. EQUIP. LOCATIONS.

ALL ALUM. DOORS TO HAVE CONT. HINGES. ALL, H.M. & PLAM COVERED WOOD DOORS TO HAVE 4 BALLBEARING HINGES. ALL EXTERIOR H.M. DOORS TO HAVE 4 BALLBEARING HINGES.

ALL VERTICAL GLASS BUTT JOINTS REQUIRE CONTINUOUS SILCONE BEAD.

THERMAL BROKEN FRAMES, FILL VOID SOLID W/ SPRAY-IN-PLACE INSUL. TYP. W/ WELDED 10mm TEE ANCHOR, SUPPLY 3 ANCHORS FOR EACH JAMB UP TO 2200mm HIGH, SUPPLY 4 IF JAMB EXCEEDS

IN ALL CORRIDOR DOORS & HIGH TRAFFIC AREAS, PROVIDE 16 GAUGE CONT. WELDED DOORS & HINGES.

ALL DOORS TO HAVE DOOR STOPS.

2200mm

DOORS TO HAVE PROVISION FOR ELECTRIC STRIKE & CARD READERS (EXCEPT WASHROOMS) & ONLY PROVIDE CARD READER WHERE ASKED ON DOOR HARDWARE SCHEDULE. (LOCATION OF CARD READER ON DOOR FRAME OR ADJACENT TO DOOR FRAME SHALL BE CONFIRMED BY ARCHITECT & CLIENT PRIOR TO INSTALLATION) COORDINATE WITH ELECTRICAL DRAWINGS.

ALL DOORS INDICATED W/ "HO" HOLD OPENS LOCATED IN FIRE SEPARATION SHOULD HAVE A MAGNETIC HOLD OPEN DEVICE TO RELEASE UPON ACTIVATION OF THE FIRE ALARM C/W CLOSER

ALL GLAZING LOWER THAN 1070mm A/F/F (MAIN FLR. LEVELS, STAIR LANDINGS, ETC.) THAT IS NOT PROTECTED BY SOME TYPE OF INTERIOR GUARD, TO BE DESIGNED TO WITHSTAND THE LOADING ON GUARDS AS PER OBC SB-13; WHERE THE DIFFERENCE IN ELEV. BETWEEN THE ADJACENT GROUND OR FLR. LEVEL IS MORE THAN 600mm TYP. (COORD. W/ GLASS & GLAZING 8800 SECTION)

ALL GLASS AND GLAZING LOCATED IN A FIRE RATED WALL SYSTEM / ASSEMBLY OR EXPOSURE SITUATIONS TO BE FIRE RATED GLASS / GLAZING.

ALL GLASS AND GLAZING, CONTRACTOR SHALL VERIFY AND PROVIDE THICKNESS TO BE CONFIRMED BY MANUFACTURER FOR THE ASSEMBLY IN WHICH THE GLAZING IS INSTALLED, TO BE SUBMITTED IN SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER BEFORE ANY MANUFACTURING. GLAZING TAPE AND METHODS TO BE AS PER MANUFACTURER'S WRITTEN

# HATCH IDENTIFICATION MARKER LEGEND

GL VISION GLAZING AS SPECIFIED 

RECOMMENDATIONS.

**VISION STRIP** 

doors/frames.

└─ ─ ─ ─ ─ VISION GLASS APPLIED TRANSLUCENT FILM AS SPECIFIED. ALL VISION PATTERN(S) TO BE COORDINATED W/ CLIENT. COLOURS TO BE SELECTED BY ARCHITECT - ALLOW 3 COLOURS TOTAL

DOOR & FRAME / SCREEN SCHEDULE NOTES

IT IS THE RESPONSIBILITY OF THE DOOR, FRAME, WINDOW, CURTAIN WALL & HARDWARE MANUFACTURER TRADES TO CO-ORDINATE & EXECUTE THEIR WORK TOGETHER.

DIMENSIONS INDICATED ARE R.O. - VERIFY ALL OPENING DIMENSIONS ON SITE PRIOR TO FABRICATION & ORDERING

COORD. W/ FLR. PLANS ON LIFE SAFETY DWG.('S) FOR FIRE SEPARATIONS REQUIRING FIRE RATED DOORS. 2HR. FIRE SEPARATION TO HAVE 1 1/2 HR. FIRE RATED doors/frames. 1 HR. FIRE SEPARATIONS TO HAVE 3/4 HR. FIRE RATED doors/frames. 1/2 HR. FIRE SEPARATIONS TO HAVE 20 MIN. FIRE RATED

2. ALL FIRE RATED DOORS & SCREENS W/ GLAZING "GL" TO HAVE "FIRELITE" GLAZING AS REQ.'D INCLUDING ALL EXPOSURE SITUATIONS

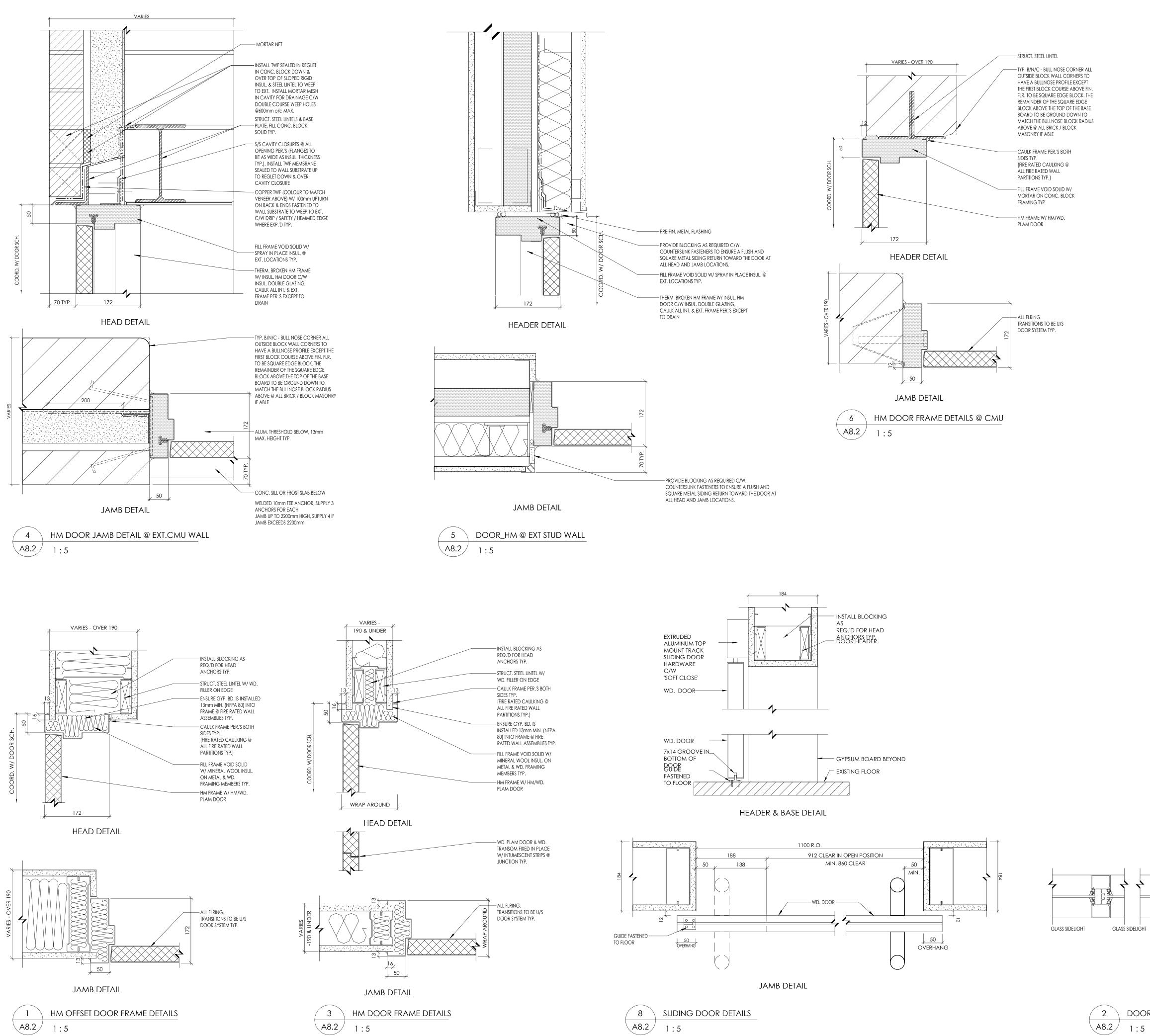
ALL NON RATED GLAZING TO BE TEMPERED TYP. ALL EXTERIOR DOOR GLAZING TO BE LAMINATED SAFETY GLASS. ALL EXT. DOORS & SCREENS TO HAVE INSULATED DOUBLE GLAZING.

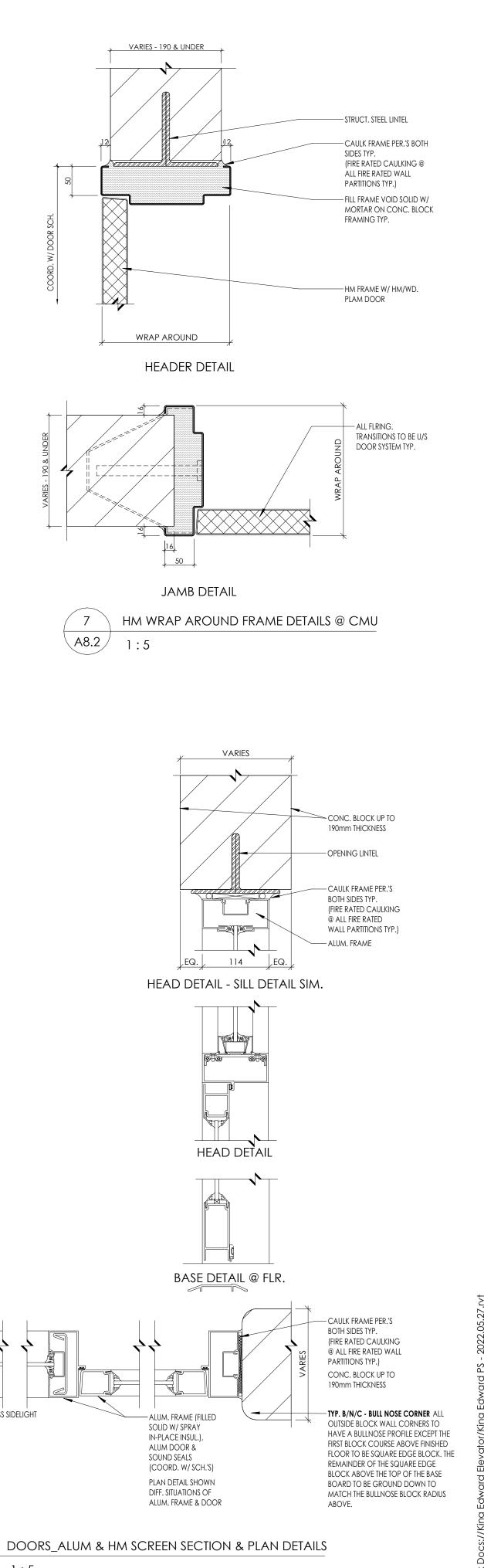
3. ALL FRAMES FOR CONC. BLOCK WALLS & GYP. BD. WALLS / PARTITIONS SHALL BE WRAP AROUND TYPE FOR WALL THICKNESS' UP TO 190mm (TO BE SNUG / TIGHT FIT ON WALL SYSTEM THAT THEY ARE INSTALLED ON / IN) OVER 190mm WALLS TO RECEIVE 172mm FRAMES.

(COORD. W/ FLR. PLANS FOR WALL THICKNESS & LOCATIONS) 4. PROVIDE VISION STRIPS AS PER ONTARIO BUILDING CODE DIV. 3.8.3.3. REQUIREMENTS AT FULL HEIGHT GLASS AREAS.

. REFER TO SPECIFICATIONS FOR ALL FRAME & GLASS DETAIL REQUIREMENTS.

Revision Schedule	
ParticularDateNoISSUED FOR03/06/20231COORDINATION1ISSUED FOR 98% SET11/29/20222ISSUED FOR TENDER & 04/05/20233PERMIT9	must be sral
ALL DIMENSIONS MARKED TO AND FROM EXISTING BUILDING ELEMENTS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE BEFORE CONSTRUCTION STARTS.	All dimensions and measurements m checked and verified by the Genero Contractor
ALL EXISTING WALL DIMENSIONS ARE APROXIMATE AND IS THE RESPONSABILITY OF THE CONTRACTOR TO SITE VERIFY BEFORE CONSTRUCTION OR DEMOLITION. MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING	Reproduction of drawings and related documents in whole or in part is forbidden without written permission of The Ventin Group.
DISTRICT SCHOOL BOX	
CLIENT WATERLOO REGION DISTRIC SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTAR N2C 2R5 PROJECT:	
22059 KING EDWARD PS ELEVATOR ADDITION 709 KING STREET WEST, KITCHENER, ON N2G 1E3 ORIGINAL PAGE SIZE ARCH D - 24'' X 36''	
THE VENTILICITY ACCHITECTS A	DOOR & CURTAINWALL SCHEDULE
A8.1	



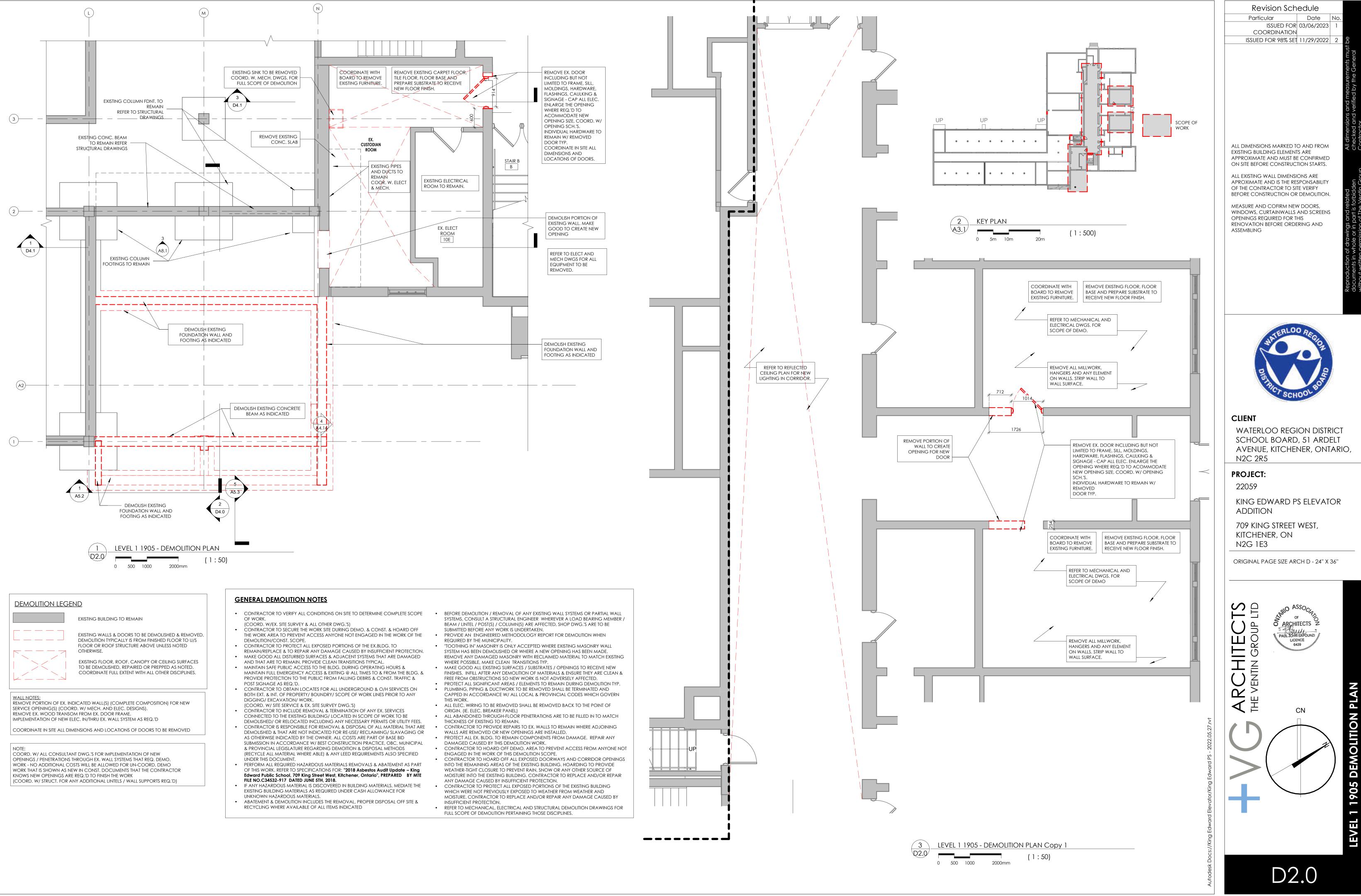


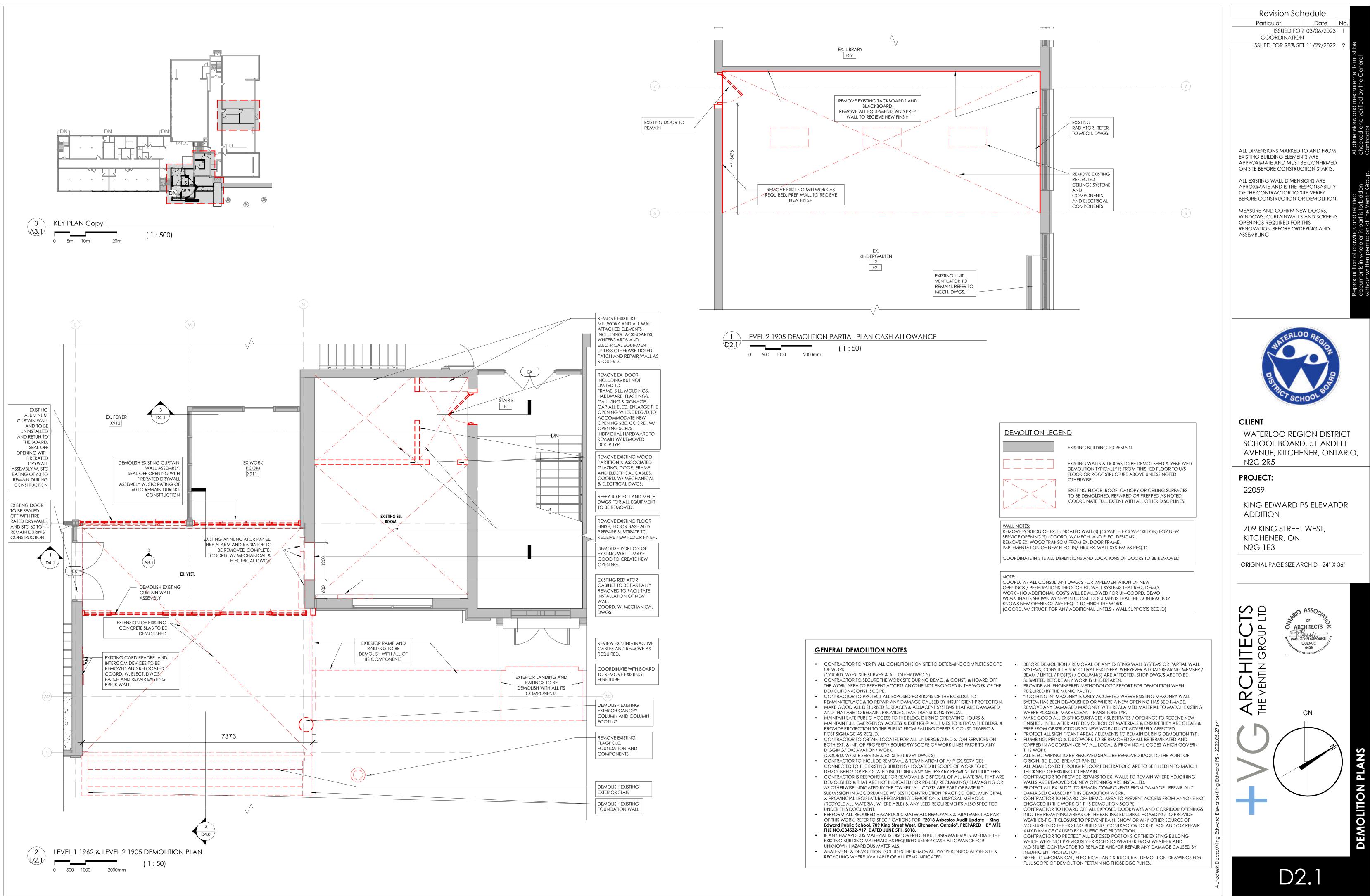


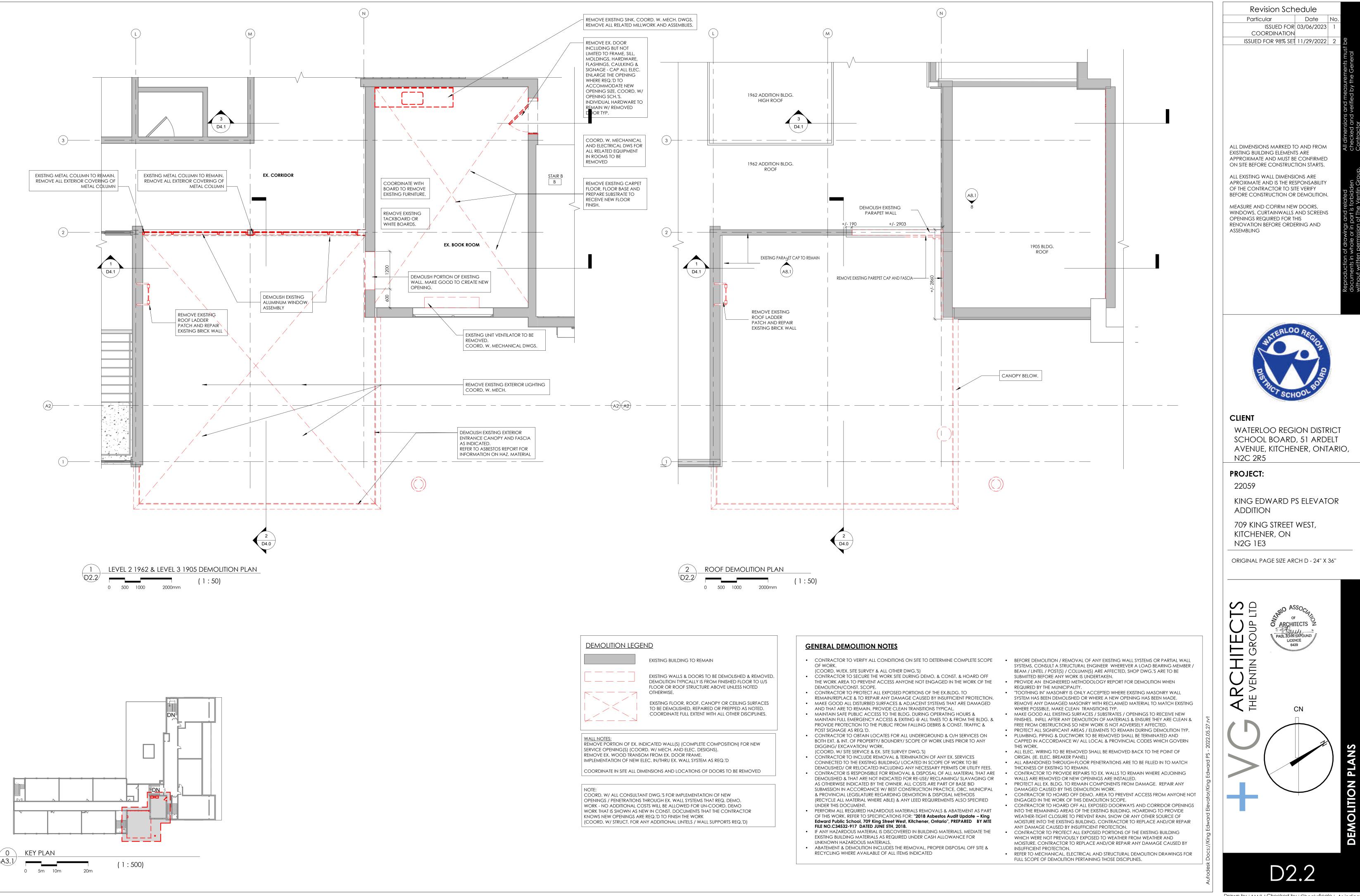
A8.2

Drawn by : AuthorChecked by : Checkescale : 1:5

1:5







11010.10 1905 TOP OF STEEL	
7810.50) 1962 B/O ROOF DECK	
7707.50\ 1962 TOP OF STEEL 2	
6422.20) 1905 TOP OF STEEL 3	
(4152.90) LEVEL 2 1962 (4021.53) 1962 TOP OF STEEL 1	
2053.40 <u>\ 1905 TOP OF STEEL 2</u>	
406.40 LEVEL 1 1962	
0.00 GRADE	
(-463.60) EXT. SLAB	

### DEMOLITION LEGEND


EXISTING WALLS & DOORS TO BE DEMOLISHED & REMOVED. DEMOLITION TYPICALLY IS FROM FINISHED FLOOR TO U/S FLOOR OR ROOF STRUCTURE ABOVE UNLESS NOTED OTHERWISE.

EXISTING FLOOR, ROOF. CANOPY OR CEILING SURFACES TO BE DEMOLISHED, REPAIRED OR PREPPED AS NOTED. COORDINATE FULL EXTENT WITH ALL OTHER DISCIPLINES.

WALL NOTES: REMOVE PORTION OF EX. INDICATED WALL(S) (COMPLETE COMPOSITION) FOR NEW SERVICE OPENING(S) (COORD. W/ MECH. AND ELEC. DESIGNS). REMOVE EX. WOOD TRANSOM FROM EX. DOOR FRAME. IMPLEMENTATION OF NEW ELEC. IN/THRU EX. WALL SYSTEM AS REQ.'D

EXISTING BUILDING TO REMAIN

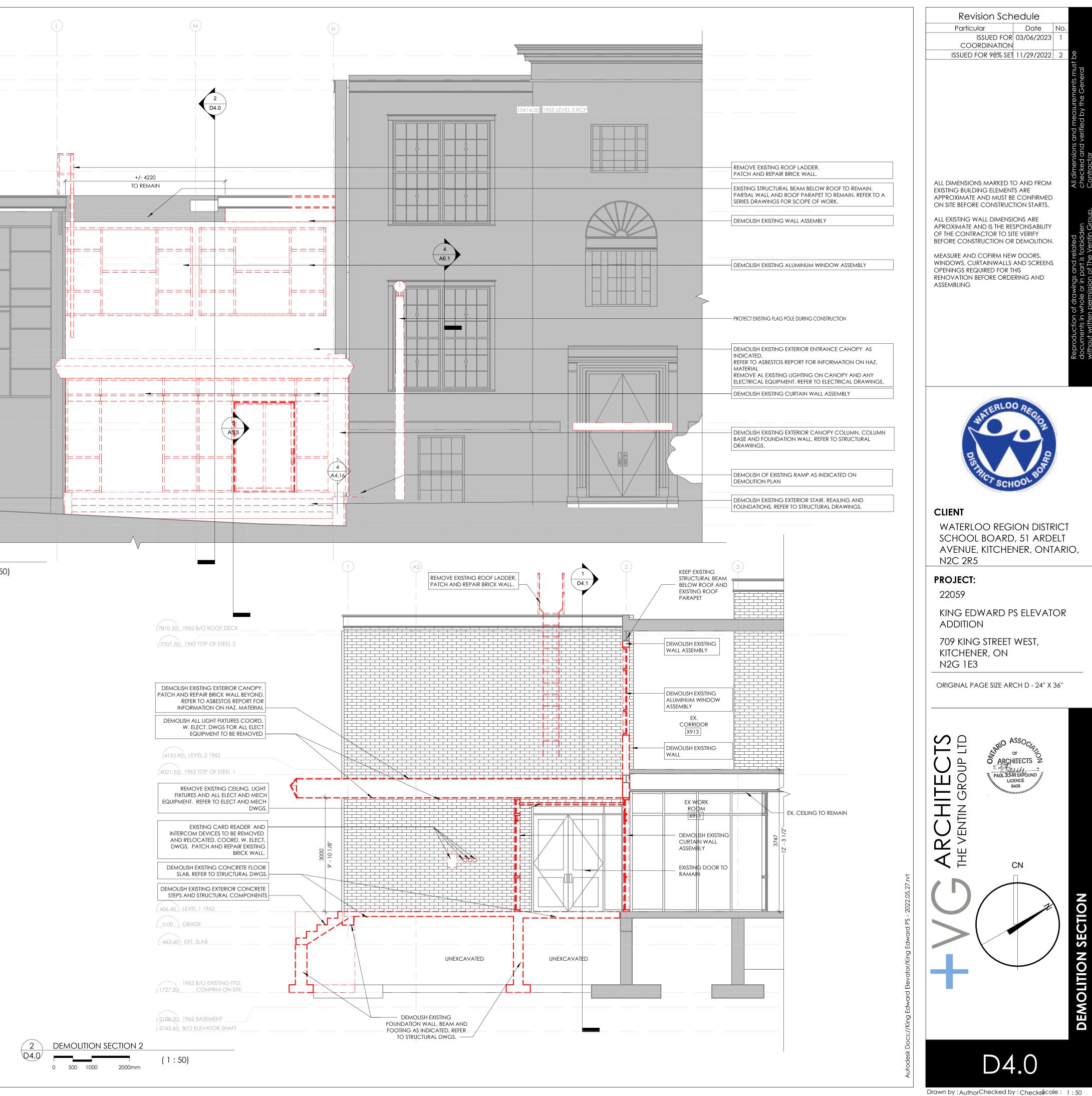
COORDINATE IN SITE ALL DIMENSIONS AND LOCATIONS OF DOORS TO BE REMOVED

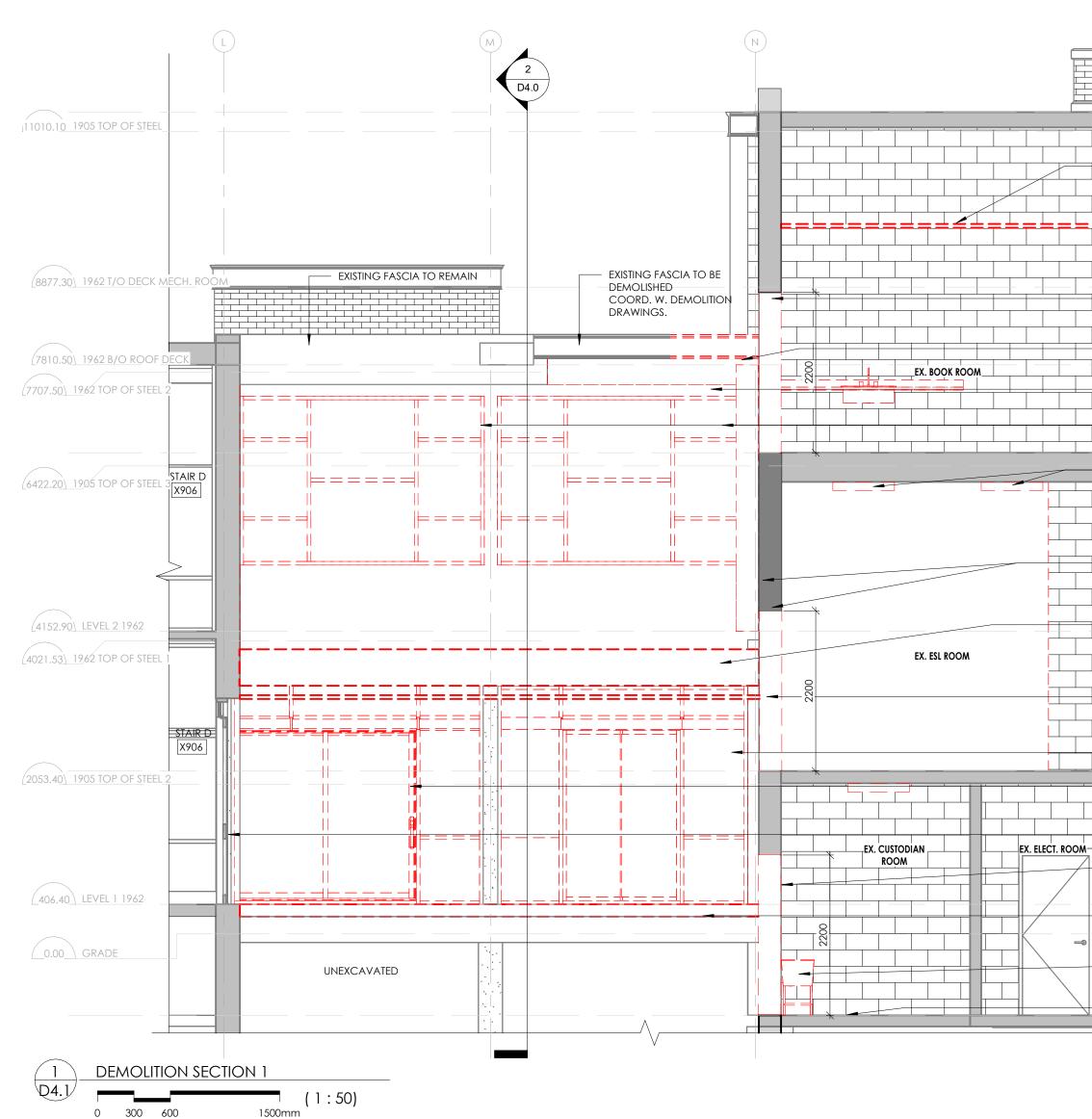
COORD. W/ ALL CONSULTANT DWG.'S FOR IMPLEMENTATION OF NEW OPENINGS / PENETRATIONS THROUGH EX. WALL SYSTEMS THAT REQ. DEMO. WORK - NO ADDITIONAL COSTS WILL BE ALLOWED FOR UN-COORD. DEMO WORK THAT IS SHOWN AS NEW IN CONST. DOCUMENTS THAT THE CONTRACTOR KNOWS NEW OPENINGS ARE REQ.'D TO FINISH THE WORK (COORD. W/ STRUCT. FOR ANY ADDITIONAL LINTELS / WALL SUPPORTS REQ.'D)

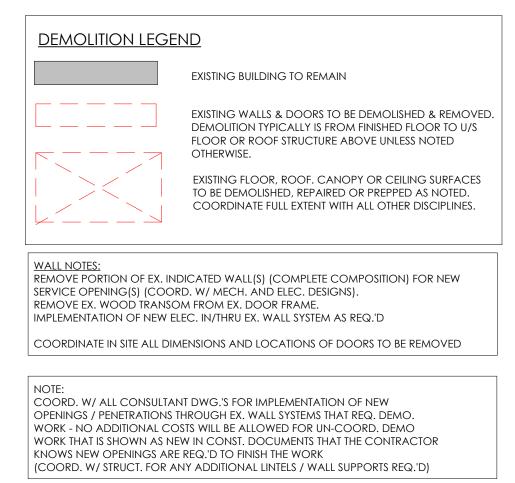
### **GENERAL DEMOLITION NOTES**

- CONTRACTOR TO VERIFY ALL CONDITIONS ON SITE TO DETERMINE COMPLETE SCOPE
   BEFORE DEMOLITION / REMOVAL OF ANY EXISTING WALL SYSTEMS OR PARTIAL WALL OF WORK. (COORD. W/EX. SITE SURVEY & ALL OTHER DWG.'S)
- CONTRACTOR TO SECURE THE WORK SITE DURING DEMO. & CONST. & HOARD OFF THE WORK AREA TO PREVENT ACCESS ANYONE NOT ENGAGED IN THE WORK OF THE DEMOLITION/CONST. SCOPE.
- CONTRACTOR TO PROTECT ALL EXPOSED PORTIONS OF THE EX.BLDG. TO REMAIN/REPLACE & TO REPAIR ANY DAMAGE CAUSED BY INSUFFICIENT PROTECTION.
- MAKE GOOD ALL DISTURBED SURFACES & ADJACENT SYSTEMS THAT ARE DAMAGED AND THAT ARE TO REMAIN. PROVIDE CLEAN TRANSITIONS TYPICAL. MAINTAIN SAFE PUBLIC ACCESS TO THE BLDG. DURING OPERATING HOURS & MAINTAIN FULL EMERGENCY ACCESS & EXITING @ ALL TIMES TO & FROM THE BLDG. &
- PROVIDE PROTECTION TO THE PUBLIC FROM FALLING DEBRIS & CONST. TRAFFIC & POST SIGNAGE AS REQ.'D. CONTRACTOR TO OBTAIN LOCATES FOR ALL UNDERGROUND & O/H SERVICES ON BOTH EXT. & INT. OF PROPERTY/ BOUNDRY/ SCOPE OF WORK LINES PRIOR TO ANY DIGGING/ EXCAVATION/ WORK.
- (COORD. W/ SITE SERVICE & EX. SITE SURVEY DWG.'S) • CONTRACTOR TO INCLUDE REMOVAL & TERMINATION OF ANY EX. SERVICES
- CONNECTED TO THE EXISTING BUILDING/ LOCATED IN SCOPE OF WORK TO BE DEMOLISHED/ OR RELOCATED INCLUDING ANY NECESSARY PERMITS OR UTILITY FEES. CONTRACTOR IS RESPONSIBLE FOR REMOVAL & DISPOSAL OF ALL MATERIAL THAT ARE • CONTRACTOR TO PROVIDE REPAIRS TO EX. WALLS TO REMAIN WHERE ADJOINING DEMOLISHED & THAT ARE NOT INDICATED FOR RE-USE/ RECLAIMING/ SLAVAGING OR AS OTHERWISE INDICATED BY THE OWNER. ALL COSTS ARE PART OF BASE BID SUBMISSION IN ACCORDANCE W/ BEST CONSTRUCTION PRACTICE, OBC, MUNICIPAL & PROVINCIAL LEGISLATURE REGARDING DEMOITION & DISPOSAL METHODS
- (RECYCLE ALL MATERIAL WHERE ABLE) & ANY LEED REQUIREMENTS ALSO SPECIFIED UNDER THIS DOCUMENT. PERFORM ALL REQUIRED HAZARDOUS MATERIALS REMOVALS & ABATEMENT AS PART OF THIS WORK. REFER TO SPECIFICATIONS FOR: "2018 Asbestos Audit Update - King Edward Public School, 709 King Street West, Kitchener, Ontario", PREPARED BY MTE FILE NO.C34532-917 DATED JUNE 5TH, 2018. IF ANY HAZARDOUS MATERIAL IS DISCOVERED IN BUILDING MATERIALS, MEDIATE THE
- EXISTING BUILDING MATERIALS AS REQUIRED UNDER CASH ALLOWANCE FOR UNKNOWN HAZARDOUS MATERIALS. ABATEMENT & DEMOLITION INCLUDES THE REMOVAL, PROPER DISPOSAL OFF SITE &
- RECYCLING WHERE AVAILABLE OF ALL ITEMS INDICATED

- SYSTEMS, CONSULT A STRUCTURAL ENGINEER WHEREVER A LOAD BEARING MEMBER / BEAM / LINTEL / POST(S) / COLUMN(S) ARE AFFECTED, SHOP DWG.'S ARE TO BE SUBMITTED BEFORE ANY WORK IS UNDERTAKEN.
- PROVIDE AN ENGINEERED METHODOLOGY REPORT FOR DEMOLITION WHEN REQUIRED BY THE MUNICIPALITY. "TOOTHING IN" MASONRY IS ONLY ACCEPTED WHERE EXISTING MASONRY WALL SYSTEM HAS BEEN DEMOLISHED OR WHERE A NEW OPENING HAS BEEN MADE.
- REMOVE ANY DAMAGED MASONRY WITH RECLAIMED MATERIAL TO MATCH EXISTING WHERE POSSIBLE, MAKE CLEAN TRANSITIONS TYP. MAKE GOOD ALL EXISTING SURFACES / SUBSTRATES / OPENINGS TO RECEIVE NEW FINISHES. INFILL AFTER ANY DEMOLITION OF MATERIALS & ENSURE THEY ARE CLEAN &
- FREE FROM OBSTRUCTIONS SO NEW WORK IS NOT ADVERSELY AFFECTED. • PROTECT ALL SIGNIFICANT AREAS / ELEMENTS TO REMAIN DURING DEMOLITION TYP. PLUMBING, PIPING & DUCTWORK TO BE REMOVED SHALL BE TERMINATED AND CAPPED IN ACCORDANCE W/ ALL LOCAL & PROVINCIAL CODES WHICH GOVERN
- THIS WORK. ALL ELEC. WIRING TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF ORIGIN. (IE. ELEC. BREAKER PANEL)
- ALL ABANDONED THROUGH-FLOOR PENETRATIONS ARE TO BE FILLED IN TO MATCH THICKNESS OF EXISTING TO REMAIN.
- WALLS ARE REMOVED OR NEW OPENINGS ARE INSTALLED. PROTECT ALL EX. BLDG. TO REMAIN COMPONENTS FROM DAMAGE. REPAIR ANY DAMAGED CAUSED BY THIS DEMOLITION WORK.
- CONTRACTOR TO HOARD OFF DEMO. AREA TO PREVENT ACCESS FROM ANYONE NOT ENGAGED IN THE WORK OF THIS DEMOLITION SCOPE. CONTRACTOR TO HOARD OFF ALL EXPOSED DOORWAYS AND CORRIDOR OPENINGS INTO THE REMAINING AREAS OF THE EXISTING BUILDING. HOARDING TO PROVIDE WEATHER-TIGHT CLOSURE TO PREVENT RAIN, SNOW OR ANY OTHER SOURCE OF
- MOISTURE INTO THE EXISTING BUILDING. CONTRACTOR TO REPLACE AND/OR REPAIR ANY DAMAGE CAUSED BY INSUFFICIENT PROTECTION. CONTRACTOR TO PROTECT ALL EXPOSED PORTIONS OF THE EXISTING BUILDING WHICH WERE NOT PREVIOUSLY EXPOSED TO WEATHER FROM WEATHER AND MOISTURE. CONTRACTOR TO REPLACE AND/OR REPAIR ANY DAMAGE CAUSED BY
- INSUFFICIENT PROTECTION. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DEMOLITION DRAWINGS FOR FULL SCOPE OF DEMOLITION PERTAINING THOSE DISCIPLINES.







### **GENERAL DEMOLITION NOTES**

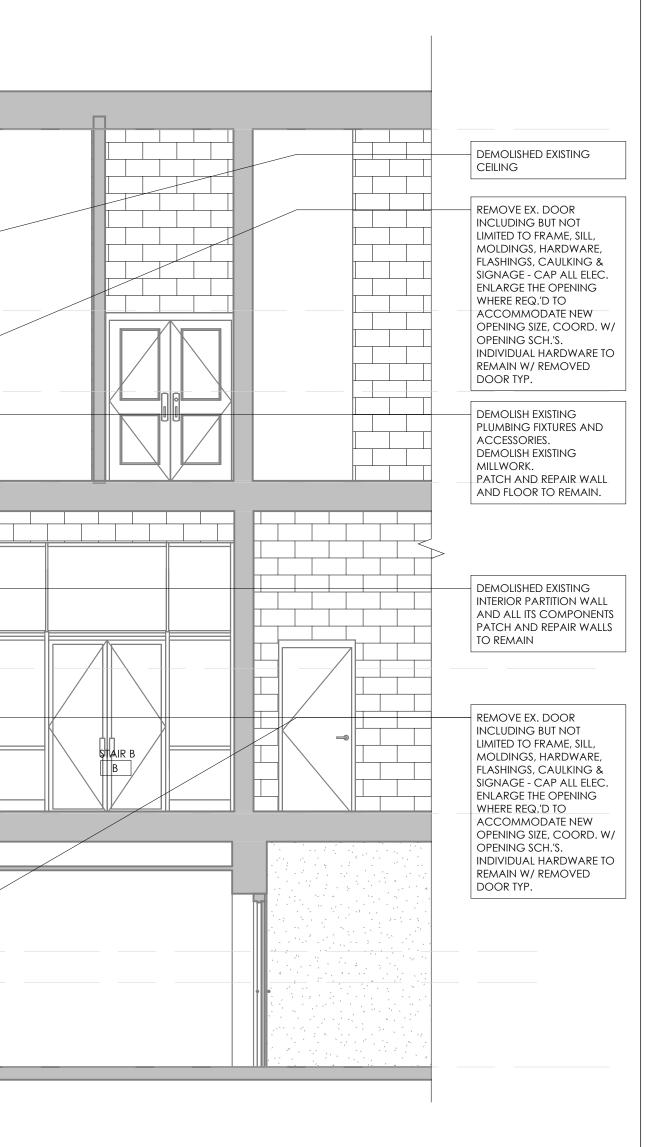
- CONTRACTOR TO VERIFY ALL CONDITIONS ON SITE TO DETERMINE COMPLETE SCOPE
   BEFORE DEMOLITION / REMOVAL OF ANY EXISTING WALL SYSTEMS OR PARTIAL WALL OF WORK. (COORD. W/EX. SITE SURVEY & ALL OTHER DWG.'S)
- CONTRACTOR TO SECURE THE WORK SITE DURING DEMO. & CONST. & HOARD OFF THE WORK AREA TO PREVENT ACCESS ANYONE NOT ENGAGED IN THE WORK OF THE DEMOLITION/CONST. SCOPE.
- CONTRACTOR TO PROTECT ALL EXPOSED PORTIONS OF THE EX.BLDG. TO REMAIN/REPLACE & TO REPAIR ANY DAMAGE CAUSED BY INSUFFICIENT PROTECTION. MAKE GOOD ALL DISTURBED SURFACES & ADJACENT SYSTEMS THAT ARE DAMAGED
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- CONTRACTOR TO OBTAIN LOCATES FOR ALL UNDERGROUND & O/H SERVICES ON BOTH EXT. & INT. OF PROPERTY/ BOUNDRY/ SCOPE OF WORK LINES PRIOR TO ANY DIGGING/ EXCAVATION/ WORK. (COORD. W/ SITE SERVICE & EX. SITE SURVEY DWG.'S)
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		11277.60 1905 TOP OF DECK		
.00 1905 LEVEL 3 RG	EXISTING LIGHT FIXTURES TO BE REMOVED. REFER TO ELECT. AND MECHANICAL DWGS FOR ALL FIXTURES TO BE REMOVED.			
	EXISTING ACOUSTIC TILE CEILING TO BE REMOVED, SAVED AND STORED TO BE REUSED.			
	DEMOLISH PORTION OF EXISTING WALL. MAKE GOOD TO CREATE NEW OPENING	<u>(8877.30) 1962 T/O DECK MECH. ROOM</u>		
	KEEP EXISTING STRUCTURAL BEAM BELOW ROOF	7810.50) 1962 B/O ROOF DECK		
	DEMOLISH EXISTING WALL ASSEMBLY			
	DEMOLISH EXISTING ALUMINUM WINDOW ASSEMBLY	6604.00\ LEVEL 3 1905		
	EXISTING LIGHT FIXTURES TO BE REMOVED. REFER TO ELECT. AND MECHANICAL DWGS FOR ALL EXISTING MECH & ELECT EQUIPEMENT TO BE REMOVED.	L0004.001 LL + LL 0 1700	EX. CORRIDOR	
	DEMOLISH PORTTION OF BRICK ON WALL TOWARDS . REFER TO FLOOR PLANS FOR EXTENSION.			
	DEMOLISH EXISTING EXTERIOR ENTRANCE CANOPY AS INDICATED. REFER TO ASBESTOS REPORT FOR INFORMATION ON HAZ. MATERIAL	4152.90\ LEVEL 2 1962		
	DEMOLISH PORTION OF EXISTING WALL. MAKE GOOD TO CREATE NEW OPENING		EX WORK	
	DEMOLISH EXISTING CURTAIN WALL ASSEMBLY	2235.20\ LEVEL 2 1905	ROOM [X911]	
	DISMOUNT EXISTING CURTAIN WALL AND DOOR FRAME. SAVE AND STORE TO REINSTALL.			
	EXISTING DOOR TO REMAIN. DEMOLISH PORTION OF EXISTING WALL. MAKE GOOD TO CREATE NEW OPENING			
	DEMOLISH CONCRETE SLAB AND COMPONENTS	406.40 LEVEL 1 1962		
	DEMOLISH EXISTING SINK AN ALL ITS COMPONENTS. REFER TO MECH. DRAWINGS.			•     
	REMOVE EXISTING CARPET FLOOR, TILE FLOOR, FLOOR BASE AND PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISH.	(-1117.60, LEVEL 1 1905		

(1:50)

0 500 1000 2000mm

SYSTEMS, CONSULT A STRUCTURAL ENGINEER WHEREVER A LOAD BEARING MEMBER / BEAM / LINTEL / POST(S) / COLUMN(S) ARE AFFECTED, SHOP DWG.'S ARE TO BE SUBMITTED BEFORE ANY WORK IS UNDERTAKEN. PROVIDE AN ENGINEERED METHODOLOGY REPORT FOR DEMOLITION WHEN REQUIRED BY THE MUNICIPALITY. "TOOTHING IN" MASONRY IS ONLY ACCEPTED WHERE EXISTING MASONRY WALL SYSTEM HAS BEEN DEMOLISHED OR WHERE A NEW OPENING HAS BEEN MADE. REMOVE ANY DAMAGED MASONRY WITH RECLAIMED MATERIAL TO MATCH EXISTING WHERE POSSIBLE, MAKE CLEAN TRANSITIONS TYP. MAKE GOOD ALL EXISTING SURFACES / SUBSTRATES / OPENINGS TO RECEIVE NEW FINISHES. INFILL AFTER ANY DEMOLITION OF MATERIALS & ENSURE THEY ARE CLEAN & FREE FROM OBSTRUCTIONS SO NEW WORK IS NOT ADVERSELY AFFECTED. • PROTECT ALL SIGNIFICANT AREAS / ELEMENTS TO REMAIN DURING DEMOLITION TYP. PLUMBING, PIPING & DUCTWORK TO BE REMOVED SHALL BE TERMINATED AND CAPPED IN ACCORDANCE W/ ALL LOCAL & PROVINCIAL CODES WHICH GOVERN THIS WORK. ALL ELEC. WIRING TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF ORIGIN. (IE. ELEC. BREAKER PANEL) ALL ABANDONED THROUGH-FLOOR PENETRATIONS ARE TO BE FILLED IN TO MATCH THICKNESS OF EXISTING TO REMAIN. WALLS ARE REMOVED OR NEW OPENINGS ARE INSTALLED. PROTECT ALL EX. BLDG. TO REMAIN COMPONENTS FROM DAMAGE. REPAIR ANY DAMAGED CAUSED BY THIS DEMOLITION WORK. CONTRACTOR TO HOARD OFF DEMO. AREA TO PREVENT ACCESS FROM ANYONE NOT ENGAGED IN THE WORK OF THIS DEMOLITION SCOPE. CONTRACTOR TO HOARD OFF ALL EXPOSED DOORWAYS AND CORRIDOR OPENINGS INTO THE REMAINING AREAS OF THE EXISTING BUILDING. HOARDING TO PROVIDE WEATHER-TIGHT CLOSURE TO PREVENT RAIN, SNOW OR ANY OTHER SOURCE OF MOISTURE INTO THE EXISTING BUILDING. CONTRACTOR TO REPLACE AND/OR REPAIR ANY DAMAGE CAUSED BY INSUFFICIENT PROTECTION. CONTRACTOR TO PROTECT ALL EXPOSED PORTIONS OF THE EXISTING BUILDING WHICH WERE NOT PREVIOUSLY EXPOSED TO WEATHER FROM WEATHER AND MOISTURE. CONTRACTOR TO REPLACE AND/OR REPAIR ANY DAMAGE CAUSED BY INSUFFICIENT PROTECTION. REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DEMOLITION DRAWINGS FOR FULL SCOPE OF DEMOLITION PERTAINING THOSE DISCIPLINES.



MEASURE AND COFIRM NEW DOORS, WINDOWS, CURTAINWALLS AND SCREENS OPENINGS REQUIRED FOR THIS RENOVATION BEFORE ORDERING AND ASSEMBLING

**Revision Schedule** 

COORDINATION

ISSUED FOR 03/06/2023

ISSUED FOR 98% SET 11/29/2022

ALL DIMENSIONS MARKED TO AND FROM

APPROXIMATE AND MUST BE CONFIRMED

ON SITE BEFORE CONSTRUCTION STARTS.

APROXIMATE AND IS THE RESPONSABILITY

BEFORE CONSTRUCTION OR DEMOLITION.

ALL EXISTING WALL DIMENSIONS ARE

OF THE CONTRACTOR TO SITE VERIFY

EXISTING BUILDING ELEMENTS ARE

Particular

Date

CLIENT

WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

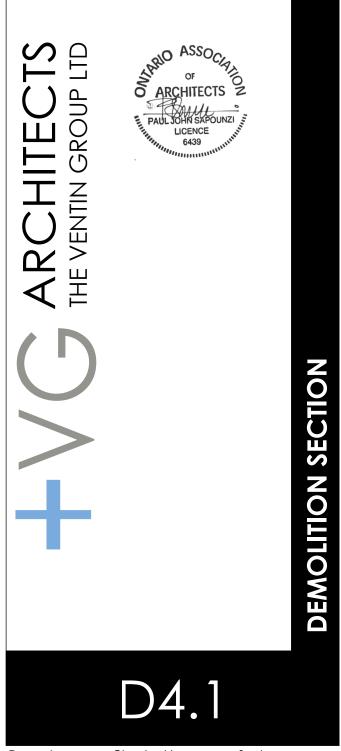
PROJECT:

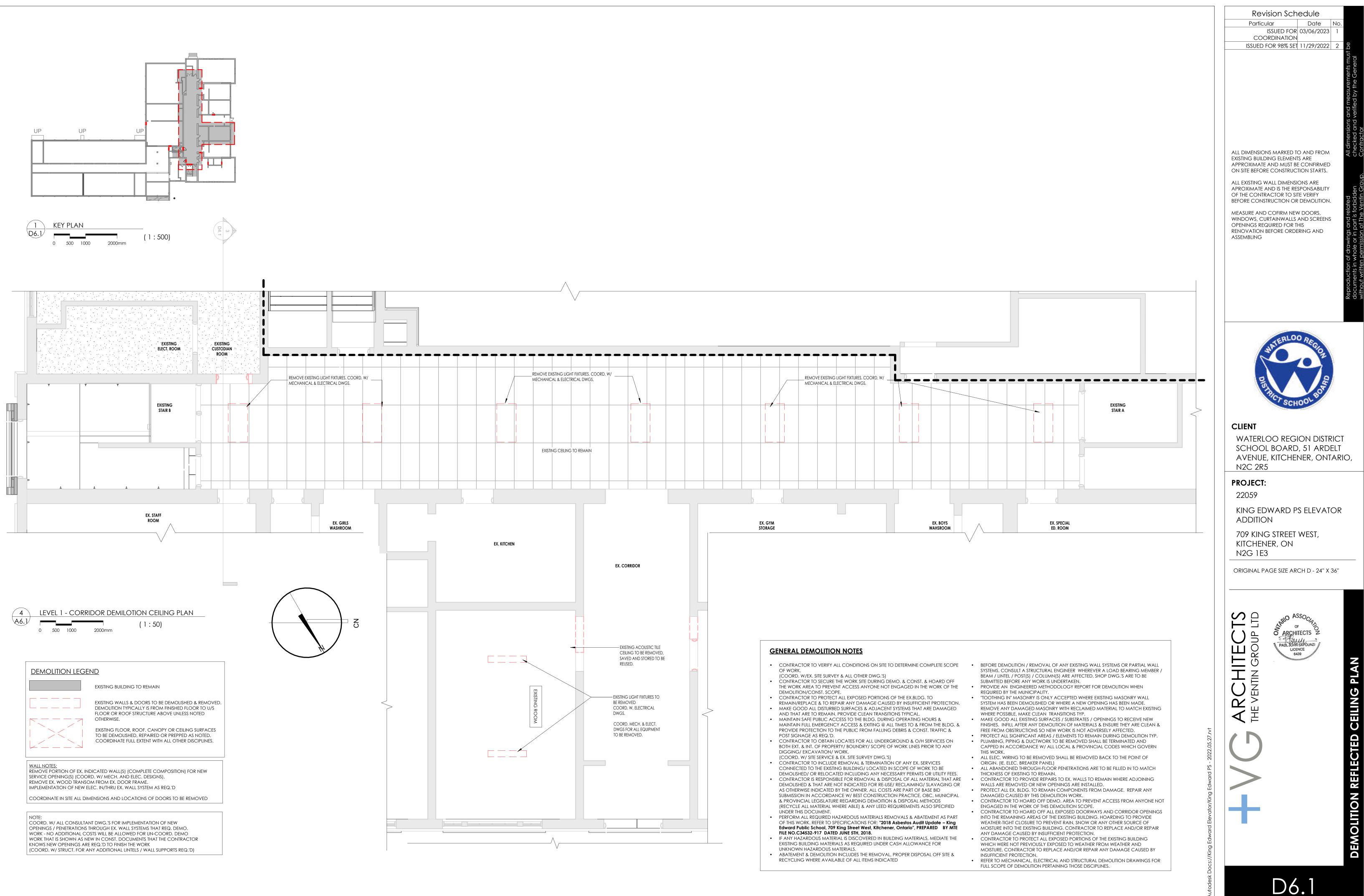
22059 KING EDWARD PS ELEVATOR

ADDITION 709 KING STREET WEST,

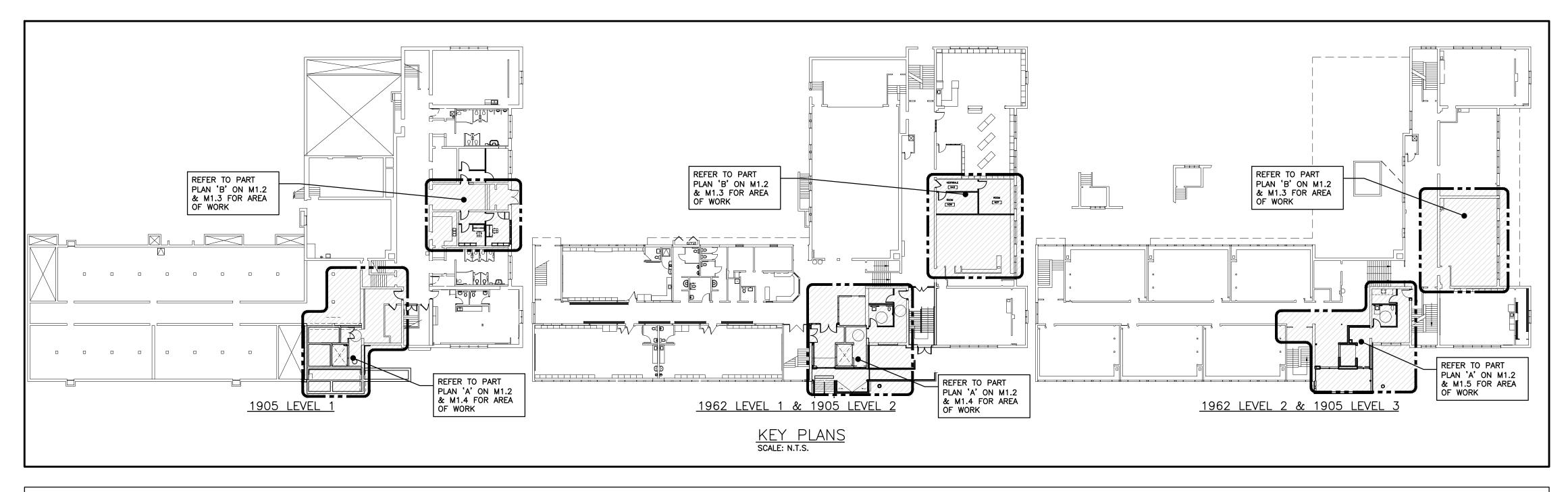
KITCHENER, ON N2G 1E3

ORIGINAL PAGE SIZE ARCH D - 24" X 36"





Drawn by : AM/LJ Checked by : Checkescale : As indicated



ltem	Туре	Connectio	n Sizes		Fixture		Trim		Accessories
item	Туре	HW CW TW	Drain Vent	Acceptable Manufacturer	Fixture Description	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessory Description
WC-1	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH, HANDS FREE	25		AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 1319 ZURN ECO VANTAGE Z5665-BWL	BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.5 gal) PER FLUSH.	DELTA 81T201–6–WMSHWA ZURN SLOAN	EXPOSED, POLISHED CHROME PLATTED, DIAPHRAGM TYPE FLUSH VALVE WITH SEAT BUMPER, 25mm (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE 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 CONVERTER, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH	SEAT: BEMIS 7850TDG CENTOCO AM820STS	SEAT: BLACK, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.
L-1	BARRIER FREE WALL MOUNTED LAV ELECTRONIC FAUCET	15 15		AMERICAN STANDARD MURRO 0954 000 KOHLER ZURN	WALL-HUNG SINK, VITREOUS CHINA, WITH SPLASH LIP, SUPPLY OPENINGS ON 100 MM (4") CENTRES, OVERFLOW. SIZE: 550 MM X 455 MM (21 7/16" X 17 3/4").		HARDWIRED ELECTRONIC FAUCET. CAST BRASS ONE PIECE BODY WITH INTEGRAL 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. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER. SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY. C/W PLUG-IN TRANSFORMER.	INSULATION: MCGUIRE PROWRAP PWV8902 TRUEBRO LAV GUARD	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1¼") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER MECHANICAL MIXING VALVE (SET TO 105°F) IN RECESSED CONTROL BOX #591T. PROVIDE ACCESS DOOR ADJACENT TO LAVATORY TO ACCOMMODATE JUNCTION BOX & MIXING VALVE CONTROL BOX INTERFERING WITH SHROUD/COVER SHROUD/KNEE CONTACT GUARD 0059-020
FD-1	FLOOR DRAIN	1		ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A	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				
FD-2	ELEVATOR PIT DRAIN	1		ZURN Z—629 WATTS DRAINAGE MIFAB CONTOUR C2900NB	GENERAL DUTY VERTICAL WALL DRAIN, CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE STRAINER. C/W INTEGRAL BACKWATER VALVE				
RD-1	ROOF DRAIN (FLOW CONTROL)	1		ZURN ZACF121-CR MIFAB R1200-FBU CONTOUR C1000DMPX WATTS RD-100-ABDK SMITH 1016-C-R-AD	CONTROLLED FLOW; CAST IRON BODY, UNDER DECK CLAMP AND SUMP RECEIVER TO SUIT ROOF CONSTRUCTION, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, BEARING PAN, FLOW CONTROL WEIR ASSEMBLY, ALUMINUM DOME.				

							EDULE		<u> </u>	SCHEE								
Item	Service	Capacity (Tons)	Refrig. W	Jnit eight M Ibs		> Voltag	e Manufactu & Mode	er Remarks	ltem	Туре		Service	Ext Capacity cfm	<u>haust Air D</u> y Size hp	SP Voltage	Manufacturer	Model	
AC-20 190	5 L3 TIBULE 2	1.0	R410A	40± 0	.25 15	208/1/	60 LG LCN128HV4	INTERLOCK TO CU-20. PROVIDE POWER FROM CU-20, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT	EF-7	CEILING MOU	ITED EL M	LEVATOR IACHINE ROOM	400	1/3	0.25 120/1/60	PENN BARRY	Z10H	C/W VIBRATION ISOLATION H THERMOSTAT BY ELECTRICAL
AC-21 OFFI	ICE N14	0.75	R410A	40± 0	.25 15	208/1/	60 LG LMCN078H	INTERLOCK TO CU-21. PROVIDE POWER FROM CU-21, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT	EF-8	CEILING MOU		OCAL EXHAUST	100	Fhp	0.125 120/1/60	) PENN BARRY	Z5H	C/W VIBRATION ISOLATION F GRILLE. FOR NUMBER & LO
AC-22 190	5 L2 TIBULE 2	1.0	R410A	40± 0	.25 15	208/1/	60 LG LCN128HV4	INTERLOCK TO CU-22. PROVIDE POWER FROM CU-22, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT										
AC-23 OFFI	ICE N15	0.75	R410A	40± 0	.25 15	208/1/	60 LG LMCN078H	INTERLOCK TO CU-21. PROVIDE POWER FROM CU-21. C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT	1. ACCEP	TABLE MANUFA	CTURERS:	BROAN-NUTON	NE/PANA	SONIC				
1. ACCEPTAB	LE MANUFACI	IURERS:	DAIKIN/C	ARRIER,	LG/LENN	IOX/MITSU	BISHI		<u>HEA</u>	TING C		NENT SC	CHEC	DULE				
					G III		CHEDU	F	ltem	Туре		Size	Cape	acity BH	EWT LWT F F		facturer & Model	

	_			Capacity	Com	pressor	•			No. of	Ele	ectrical		Unit			
ltem	Туре	Service	Tons	MBH	Туре	No.	No. Stages	Refrig.	Suction Temp <b>*</b> F		Voltage	MCA	MOCP	Weight Ibs	Manufacturer	Model	Remarks
CU-20	OUTDOOR ROOF MOUNTED	1905 L3 VESTBULE 2	1.0	12.0	SCROLL	1	1	R410A	52	1	208/1/60	19.0	30	170±	LG	LMU120HHV	PROVIDE CONTINUOUS SUPPORT AS F DETAIL. CONNECT TO AC-20
CU-21	OUTDOOR ROOF MOUNTED	OFFICE N14 & OFFICE N15	1.5	18.0	SCROLL	1	1	R410A	52	1	208/1/60	18.6	30	160±	LG	LMU180HHV	PROVIDE CONTINUOUS SUPPORT AS P DETAIL. CONNECT TO AC-21 & AC-2
CU-22	OUTDOOR ROOF MOUNTED	1905 L2 VESTIBULE 2	1.0	12.0	SCROLL	1	1	R410A	52	1	208/1/60	19.0	30	170±	LG	LMU120HHV	PROVIDE CONTINUOUS SUPPORT AS F DETAIL. CONNECT TO AC-22
	MOUNTED																DETAIL, CONNECT TO AC-2

<u>HEA</u>	TING COMPONE	NT SC	HEDULI	<u>E</u>				
Item	Туре	Size	Capacity MBH	EWT *F	LWT *F	EAT •F	Manufacturer & Model	
H—1	RADIATION	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-1A	2 ROW, 1
H–2	RADIATION FREE STANDING	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-2A-FS	2 ROW, 1
H-3	RADIATION (MOUNTED HIGH)	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-1B	1 ROW, 1 FOR MOU
н_4	CABINET UNIT	AS NOTED		150	130	70	ENG AIR	SEMI-REC

 H-3
 RADIATION (MOUNTED HIGH)
 AS NOTED
 AS NOTED
 150
 130
 70
 ENG AIR WF-1B
 1 ROW, 14" HIGH CABIN FOR MOUNTING HIGH ON FOR MOUNTING HIGH ON HIGH ON HIGH ON H-4

 H-4
 CABINET UNIT HEATER
 AS NOTED
 AS NOTED
 150
 130
 70
 ENG AIR CUH-SERIES
 SEMI-RECESSED WALL M 120/1/60, Fhp, C/W R

 H-5
 RADIATION CABINET ONLY (CASH ALLOWANCE)
 N/A
 N/A
 N/A
 N/A
 N/A
 N/A
 CABINET ONLY. CONTRAC STYLE PRIOR TO SHOP

 1. ACCEPTABLE MANUFACTURERS:
 TYPE H-1, H-2, H-3 - ENGINEERED AIR/SLANT FIN/SIGMA/DUNHAM-BUSH/ROSEMEX/RITTLING. TYPE H-4 - ENGINEERED AIR/SLANT FIN/SIGMA/DUNHAM-BUSH
 CABINET ONLY. CONTRAC STYLE PRIOR TO SHOP

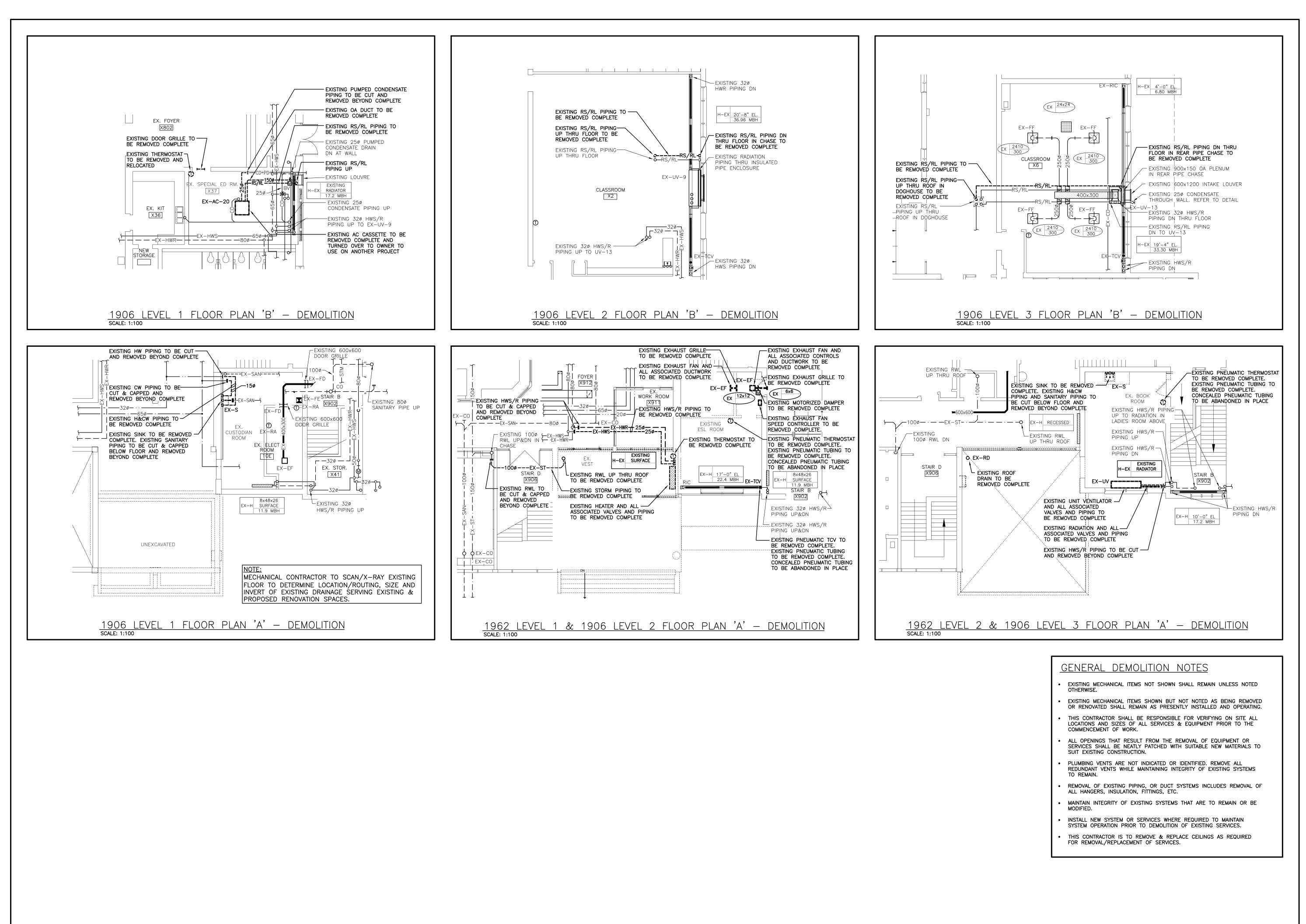
 2. CABINET FINISHES ARE TO BE FACTORY FINISH PAINTED SELECTED FROM STANDARD MANUFACTURER'S COLOURS UNLESS OTHERWISE NO

1	Item	Description	Item	Description
		CUT EXISTING & CONNECT		BALL VALVE
		NEW PIPING           FLOW DIRECTION	<b>*</b> C	RISER VALVE
	·	DOMESTIC COLD WATER	<b>ia</b> BV	BALANCING VALVE
		· DOMESTIC HOT WATER PIPING	TCV	TEMPERATURE CONTROL VALVE
	— —EX—SAN—	ABOVE FLOOR	FEC	RECESSED CABINET MOUNTED FIRE EXTINGUISHER
	— —EX—SAN—	BELUW FLOOR	FE FE	WALL MOUNTED FIRE EXTINGUISHER
	— — SAN — —	SANITARY PIPING ABOVE FLOOR SANITARY PIPING BELOW	@	WATER METER
	— — SAN — —	FLOOR EXISTING STORM PIPING	<b>o</b> co	FLOOR CLEANOUT
	-EX-ST ·	ABOVE FLOOR EXISTING STORM PIPING		LINE CLEANOUT THERMOSTAT (WITH OR
	-EX-ST ·	BELOW FLOOR STORM PIPING ABOVE FLOOR	•••••	WITHOUT GUARD) MOTORIZED DAMPER
		• STORM PIPING BELOW FLOOR		(OPPOSED BLADE) FIRE DAMPER
	CD	· CONDENSATE PIPING		FLEXIBLE ROUND DUCT
		HEATING WATER SUPPLY PIPING	— — — —	ACOUSTICAL, FLEXIBLE ROUND DUCT
	— —HWR— —	HEATING WATER RETURN		RIGID ROUND DUCT
	G	· NATURAL GAS PIPING	AL	ALUMINUM DUCT
		REFRIGERANT LIQUID PIPING	SS	STAINLESS STEEL DUCT
		REFRIGERANT SUCTION PIPING	Type Size Cap.	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
	<sup>FD</sup> <b>ور - خ</b>	FLOOR DRAIN	Type Size 1 Size 2	HYDRONIC HEATING SIZE,
		TRAP PRIMER		TYPE & CAPACITY EXPANSION
				COMPENSATOR/JOINT
	с— о—	PIPE DOWN PIPE UP	AFF	ABOVE FINISHED FLOOR
			EX-	EXISTING DUCT (SIZE AS
		SCREWED OR WELDED PIPE	PD	INDICATED) PUMPED DISCHARGE
		RAL NOTES		
	ALL DRA     SPECIFIC	WINGS ARE TO BE READ IN COI ATION.	NJUNCTION WITH	IHE PREPARED
		AND FTIAN OF THE DRAIFAT AF	UPON COMPLET	SHALL PROVIDE THE
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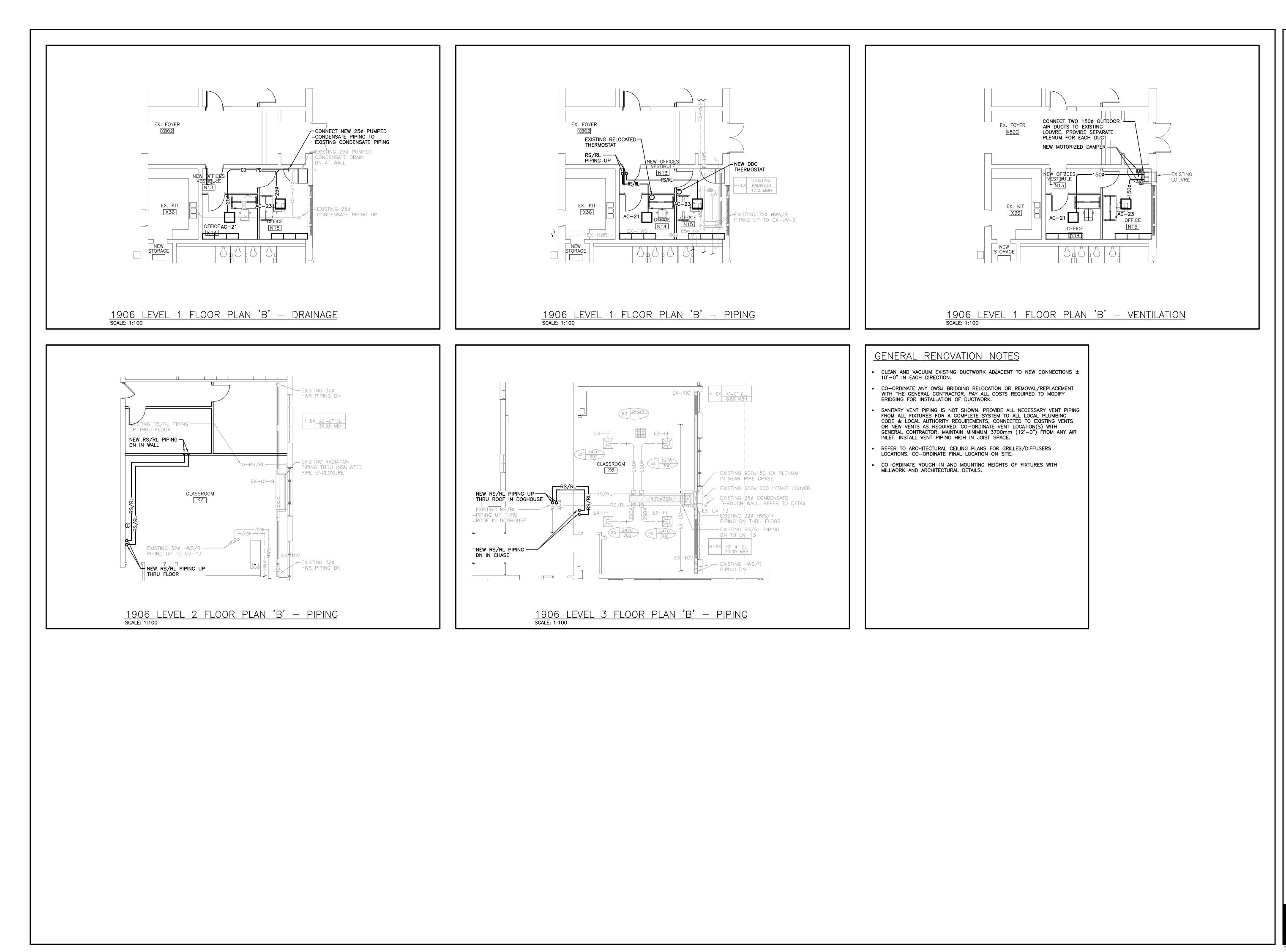
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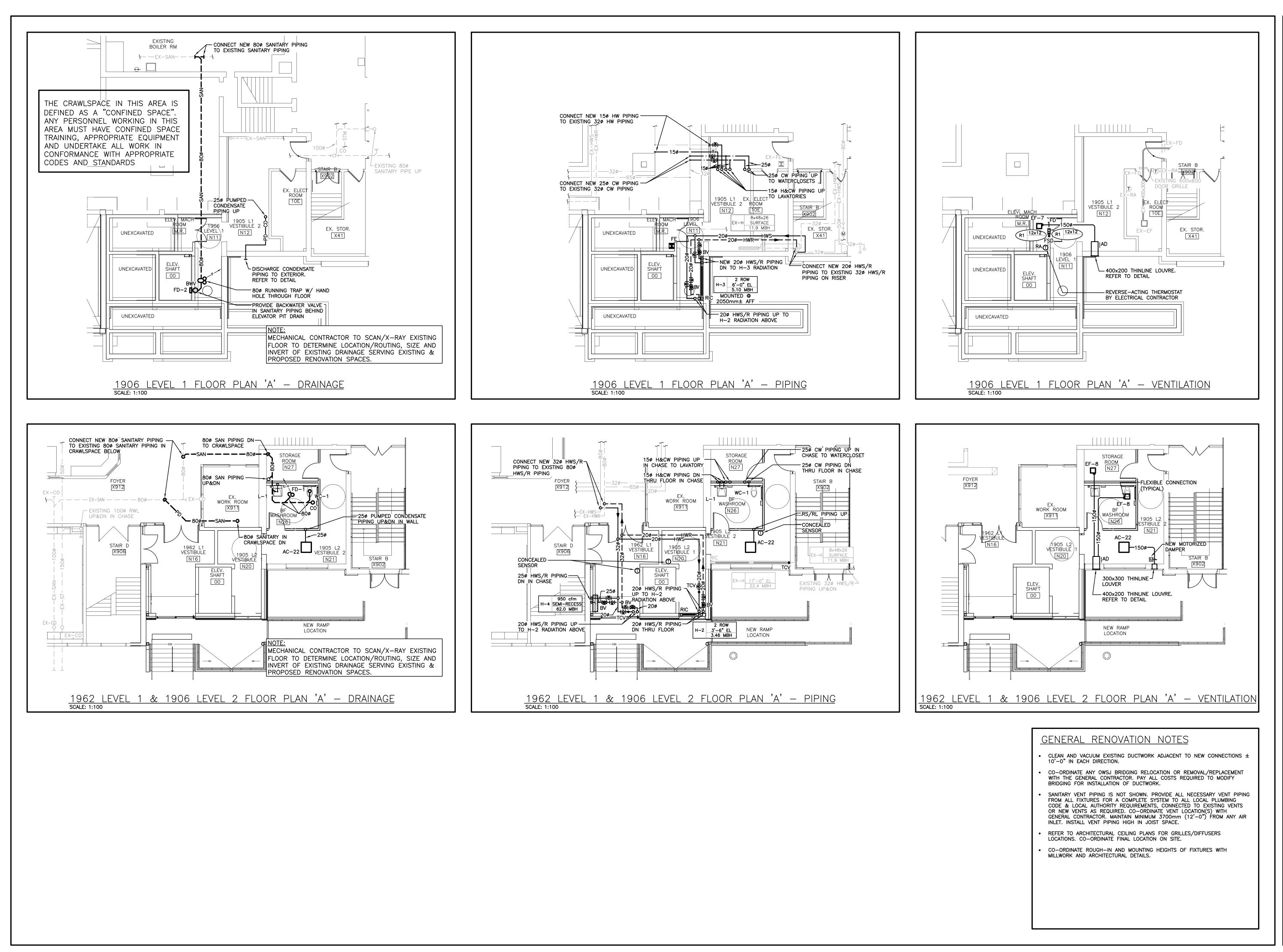
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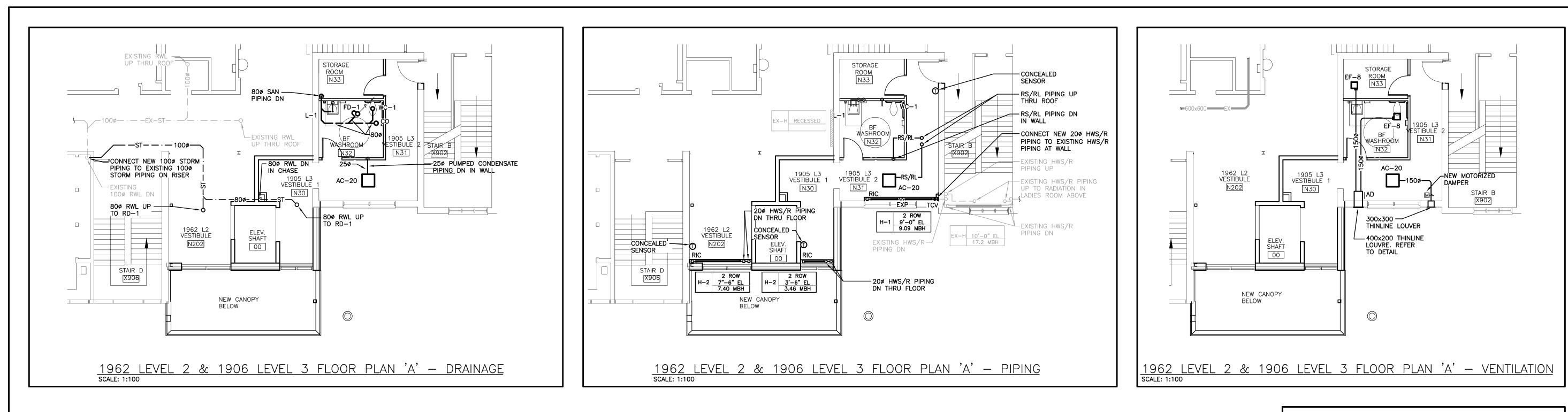
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as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.	vings or in p
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.	draw ole c ermis
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must	n of n wh
be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.	uctio ents i writte
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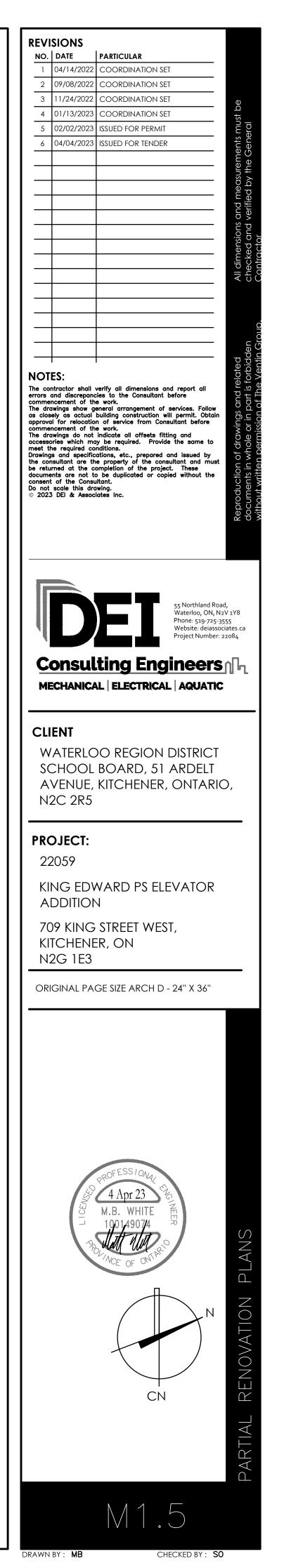


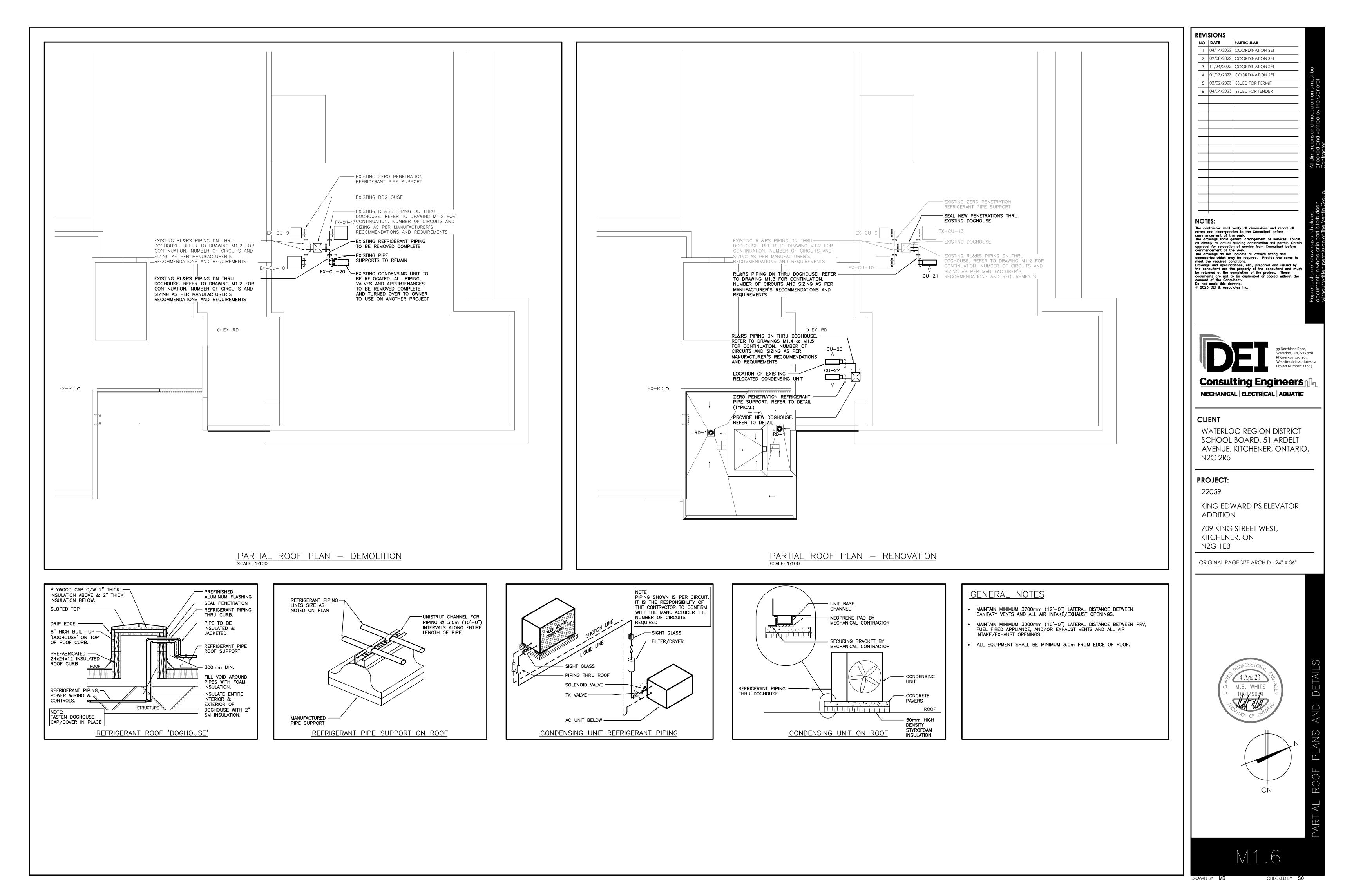
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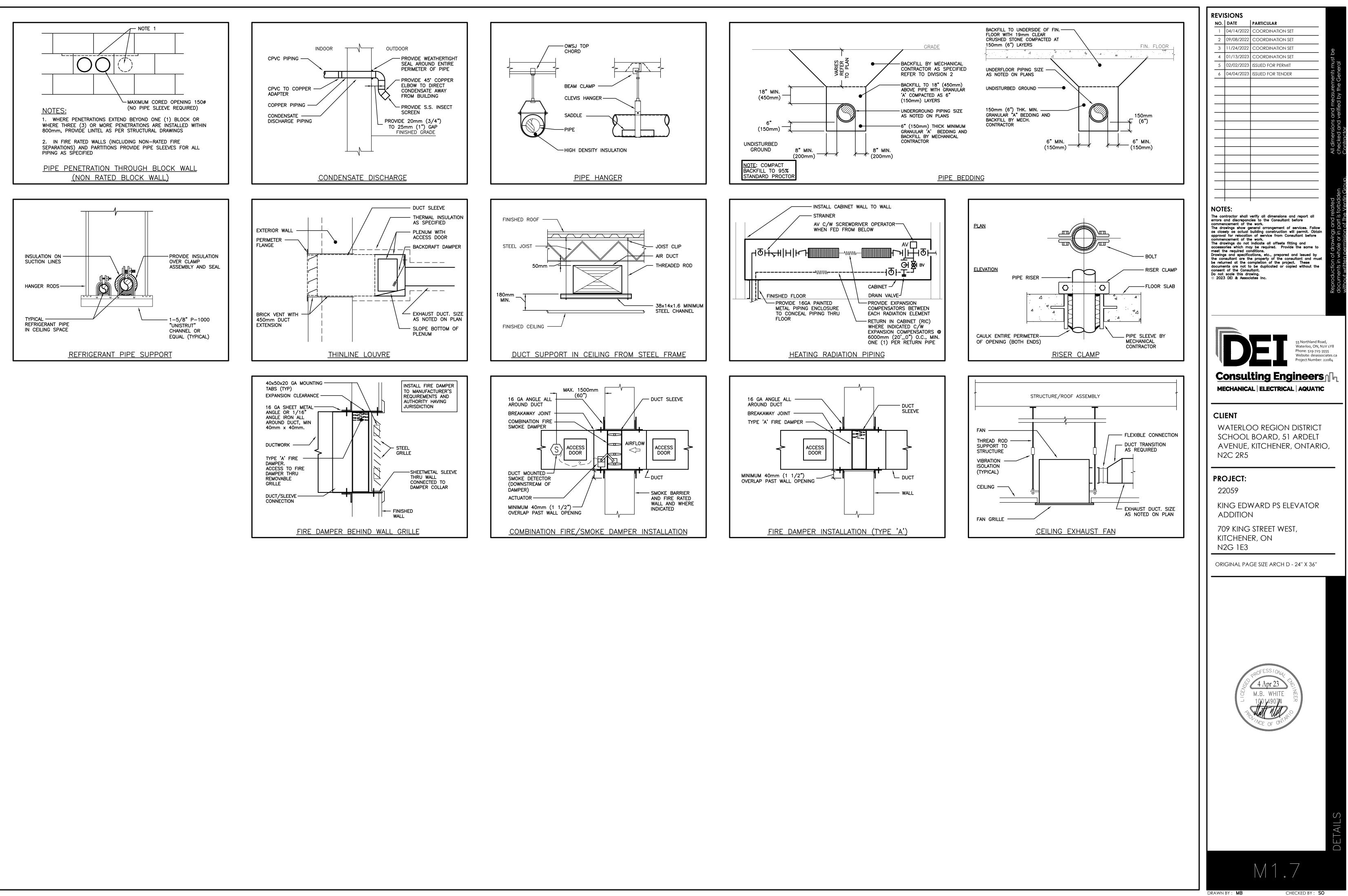


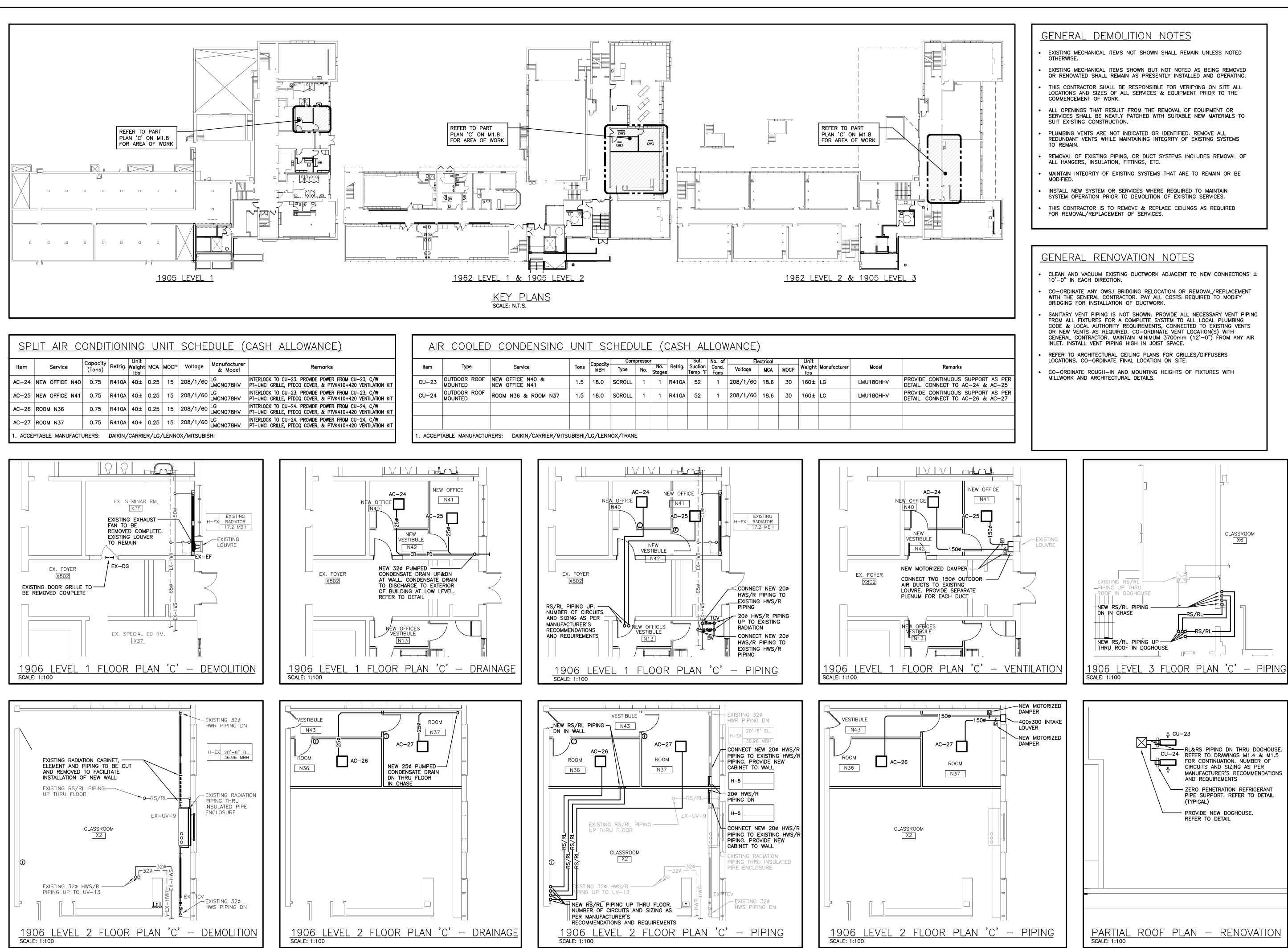
# GENERAL RENOVATION NOTES

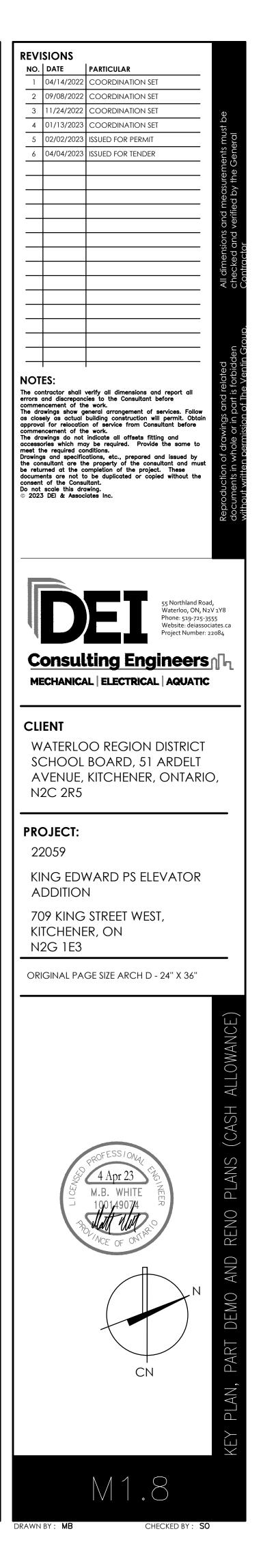
- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS  $\pm$  10'-0" IN EACH DIRECTION.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- SANITARY VENT PIPING IS NOT SHOWN.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

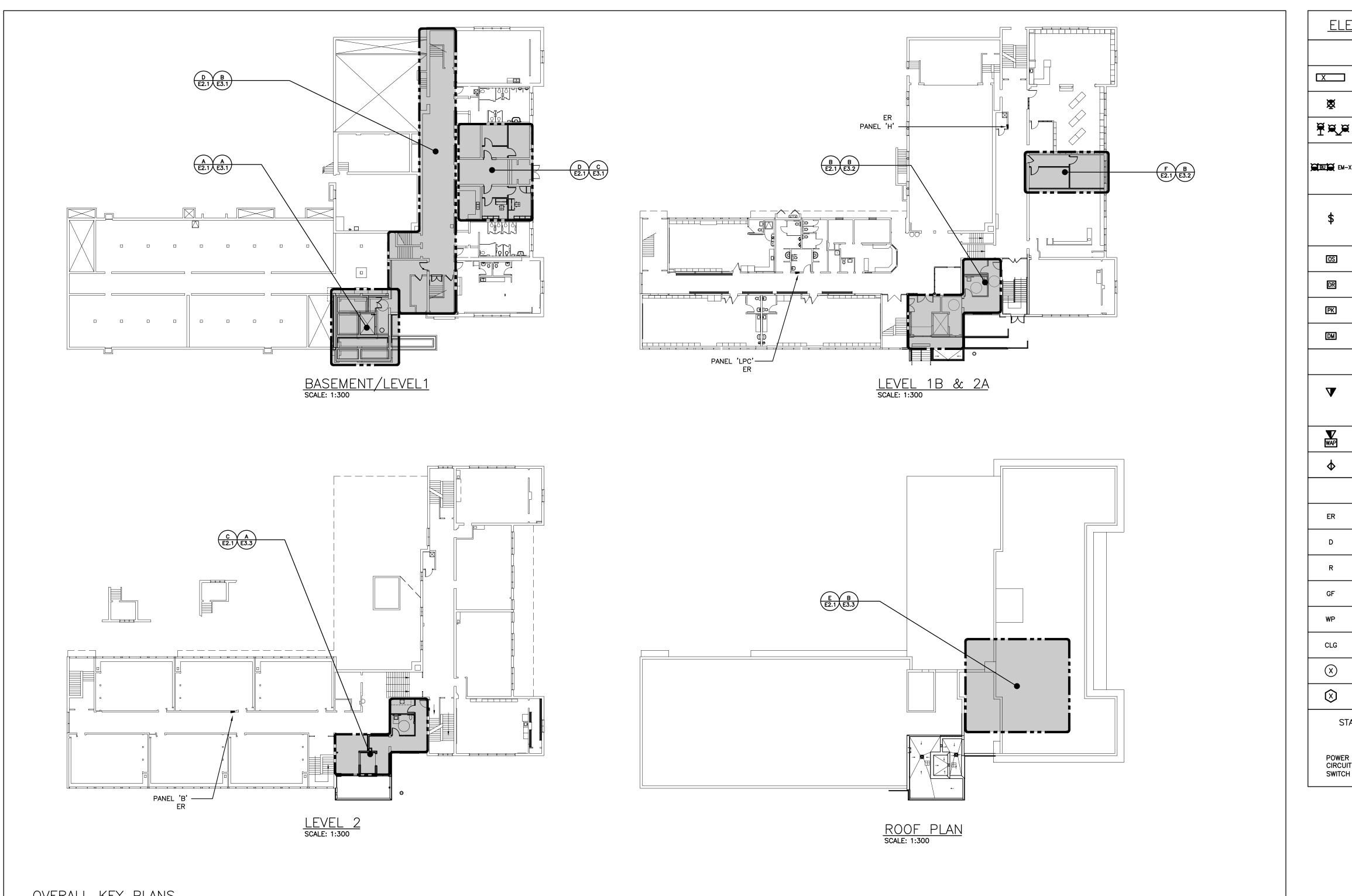










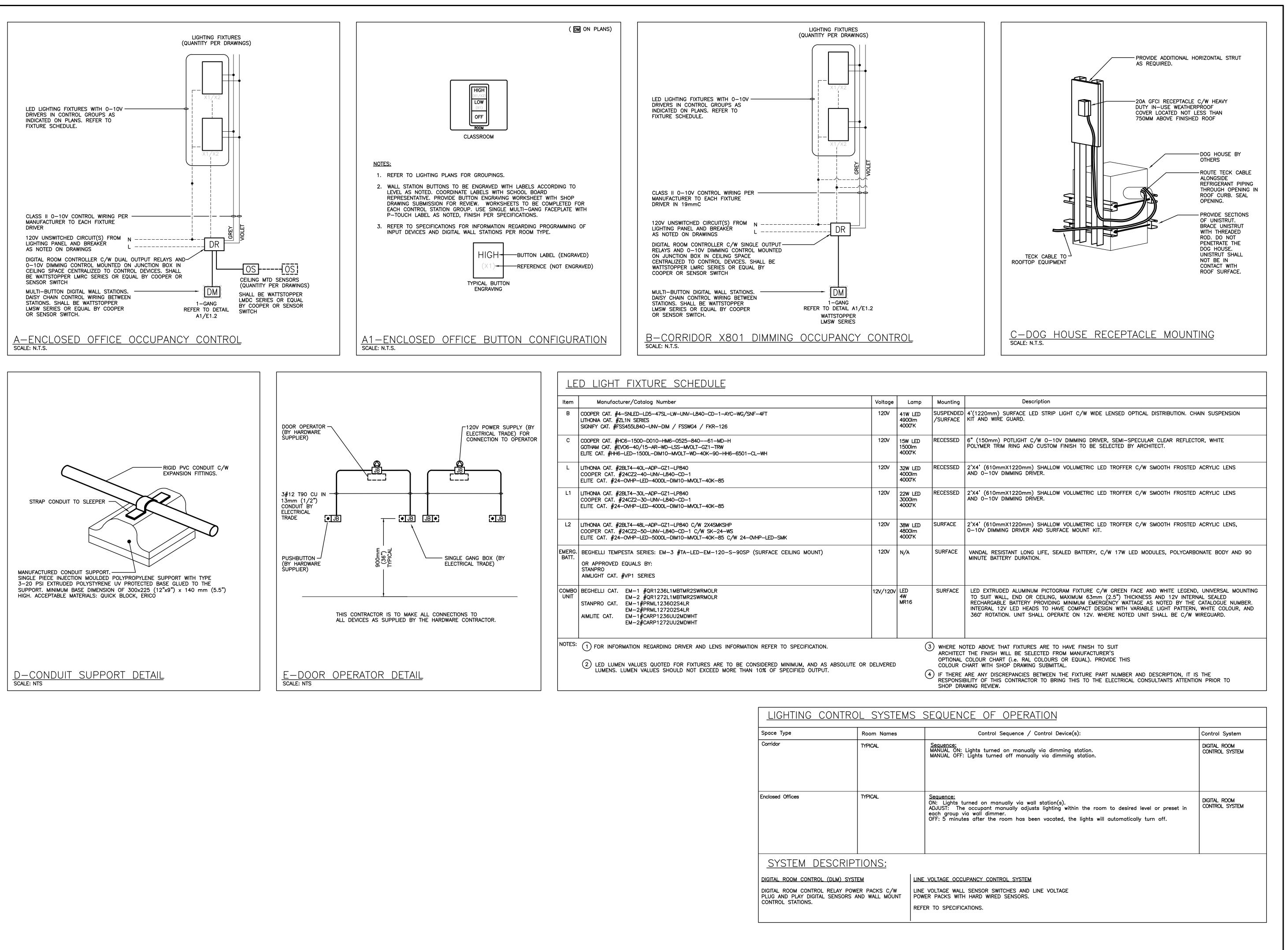


OVERALL KEY PLANS scale: 1:300

EQUIPMEN	T WIRING	<u>SCHEDUL</u>	<u> </u>										E=ELECTRICAL M=MECHANICAL O=OTHERS		EQUIPMEN	r wiring	SCHE	DULE											E=ELEC M=MECI O=OTHE
Description	Data	Starter	Co	ntrol Device		lsolating Device	)		Remote	tems		Interlock	Remarks		Description	Data	Sta	rter	Control De	evice	lsolat Devi	ting ice		Remote	Items			Interlock	Remarks
Description	Provided by Voltage Size hp/kW/Amps Phase Magnetic	Manual Contactor Combination	Variable Frequency Drive Hand/Off/Auto	On/Off Selector Start/Stop PB. High/Low/Off	Pilot Light Disconnect	WP Disconnect	Brkr/Fuse Starter/Device Wired By	Thermostat RA Thermostat	Interval Timer Var.Speed Cntri Motor Rated Sw.	c/w Pilot Light Dual Voltage Relay Control Panel	Wired by Bldg Auto System Wired by	Interlock To Interlock By	Description	Electrical Item	Description	Provided by Voltage Size hp/kW/Amps Phase	Magnetic Manual Contactor	Combination Variable Frequency Drive	Hand/Off/Auto On/Off Selector Start/Stop	HB. High/Low/Off Pilot Light	Disconnect	Disconnect Brkr/Fuse	Starter/Device Wired By Thermostat RA Thermostat	val Timer Speed	motor house Jan. c/w Pilot Light Dual Voltage Relay Control Panel	Wired by Bldg Auto Svstem	Wired by	Interlock To Interlock By	Description
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EF-7	M 120 1/3 1				E		E E	E			ЕММ		ELEVATOR MACHINE ROOM	16		M 208 18.6 1					E	E	E			м	м	AC-26 AC-27	
FORCE FLOW HEATER	M 120 FHP 1				E		E E	м			ммм																		
EF-8	M 120 FHP 1				E		ΕE		E				LOCAL EXHAUST																

LIGHTING		POWER
J LIGHT FIXTURE	φ	WALL MOUNTED RECEPTACLE (15A-120V)
WALL MOUNTED EXIT LIGHT SHADING	•	WALL MOUNTED T-SLOT RECEPTACLE (20A-120V)
SINGLE OR TWIN EMERGENCY LIGHTING FIXTURE	<b>A</b>	T-SLOT RECEPTACLE MTD. ABOVE COUNTER (20A-120V)
BATTERY UNIT WITH INTEGRAL	₽₽s	RECEPTACLE MTD. ABOVE COUNTER S=SPLIT (15A-120V)
(EM-X INDICATES BATTERY UNIT TYPE)	٥	DIRECT CONNECTION
SINGLE POLE SWITCH (3=3 WAY, 4=4 WAY, P=PILOT LIGHT, K=KEYED, DM=DIMMER, M=MOTOR RATED,		PANEL AS INDICATED
F=FAN SWITCH)	ď	FUSED DISCONNECT
CEILING MOUNTED MOTION SENSOR	●	PUSH–BUTTON STATION (QUANTITY OF BUTTONS AS PER PLANS)
DIGITAL ROOM CONTROLLER	$\square$	TRANSFORMER
ANALOG POWER PACK	S	SPEED CONTROLLER
DIGITAL WALL DIMMER STATION		THERMOSTAT (RA=REVERSE ACTING) HONEYWELL CAT. #T6051 SERIES
COMMUNICATIONS	Ø	INTERVAL TIMER (EQUAL TO LEVITON CAT. #LTB15–1L)
COMBINATION SINGLE VOICE/ SINGLE COMPUTER OUTLET UNLESS OTHERWISE NOTED C/W 1" (27mm) C TO CABLE		SECURITY
MANAGEMENT SYSTEM.		SECURITY DETECTOR (SURFACE MOUNTED)
WIRELESS ACCESS POINT. PROVIDE ¾" (21mm) C TO CABLE MANAGEMENT SYSTEM	R	CEILING MOUNTED CAMERA
HANDSET (ND = NON-DIAL STYLE)		ACCESS CONTROL
GENERAL	DC	DOOR CONTACT C/W 19mmC TO NEAREST SECURITY JUNCTION BOX (REFER TO DETAIL)
INDICATED EXISTING ITEM TO REMAIN	ES	ELECTRIC STRIKE. CONFIRM ROUGHIN WITH DOOR HARDWARE.
INDICATES EXISTING ITEM TO BE DELETED INDICATES EXISTING ITEM TO BE RELOCATED/IN RELOCATED POSITION	- <u>C</u> R	CARD/FOB READER ROUGH-IN AS A SINGLE GANG BOX AT 1100mn AFF C/W 13mmC TO ELECTRIC STRIKE IN ADJACENT DOOR FRAME. CONFIRM ROUGH-IN WITH DOOR
GROUND FAULT		HARDWARE.
WEATHERPROOF	КР	KEYPAD
CEILING MOUNTED		FIRE ALARM
NOTE INDICATOR	•	HEAT DETECTOR (135 DEGREE RATE OF RISE AND FIXED TEMPERATURE)
MECHANICAL ITEM NO.	6	SMOKE DETECTOR (RL=RELAY BASE)
TANDARD CIRCUIT LABELING		PULLSTATION
A-1-1		ALARM BELL
H LEG (IF APPLICABLE)		ALARM STROBE
	DH	DOOR HOLD OPEN DEVICE

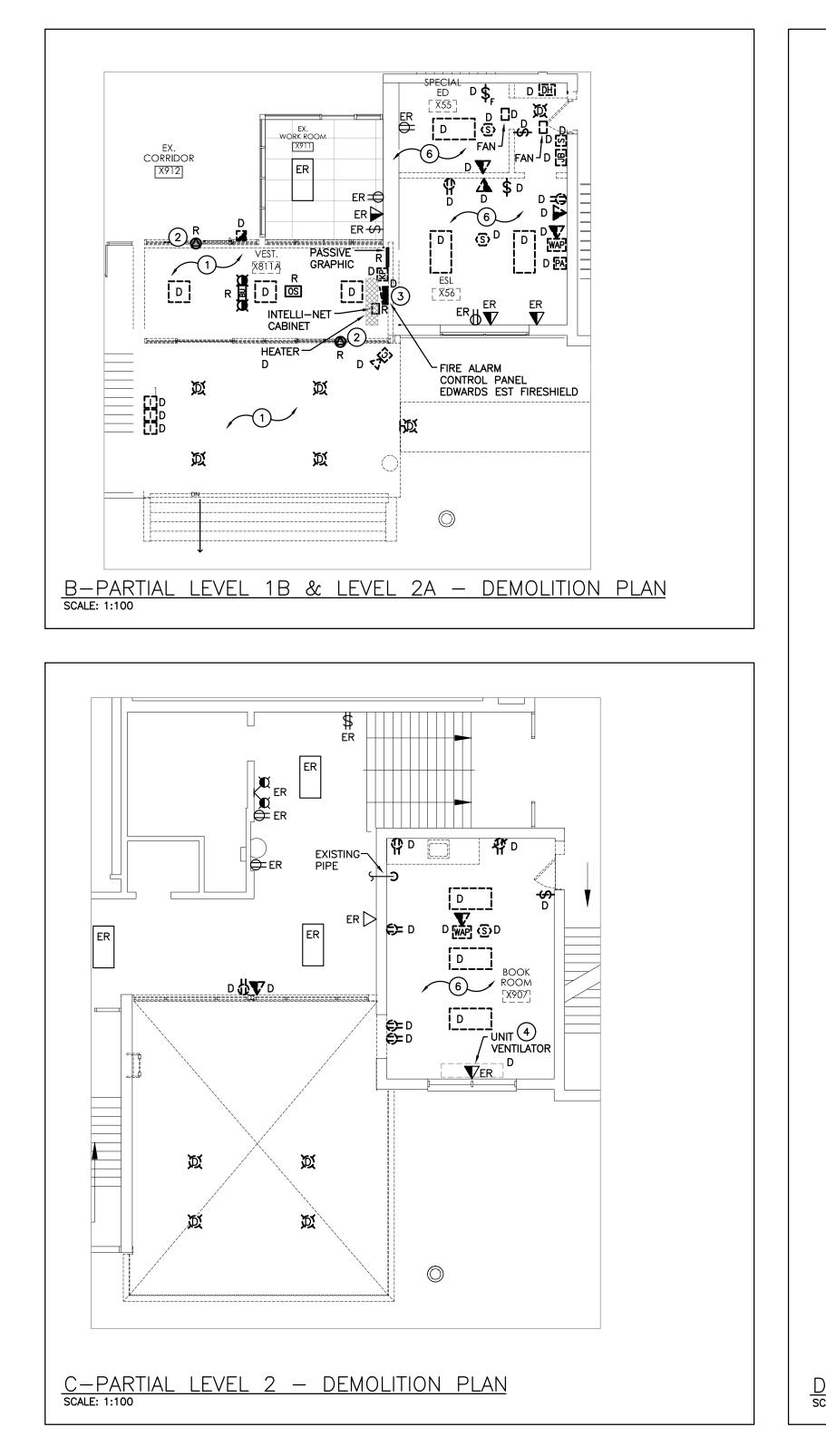
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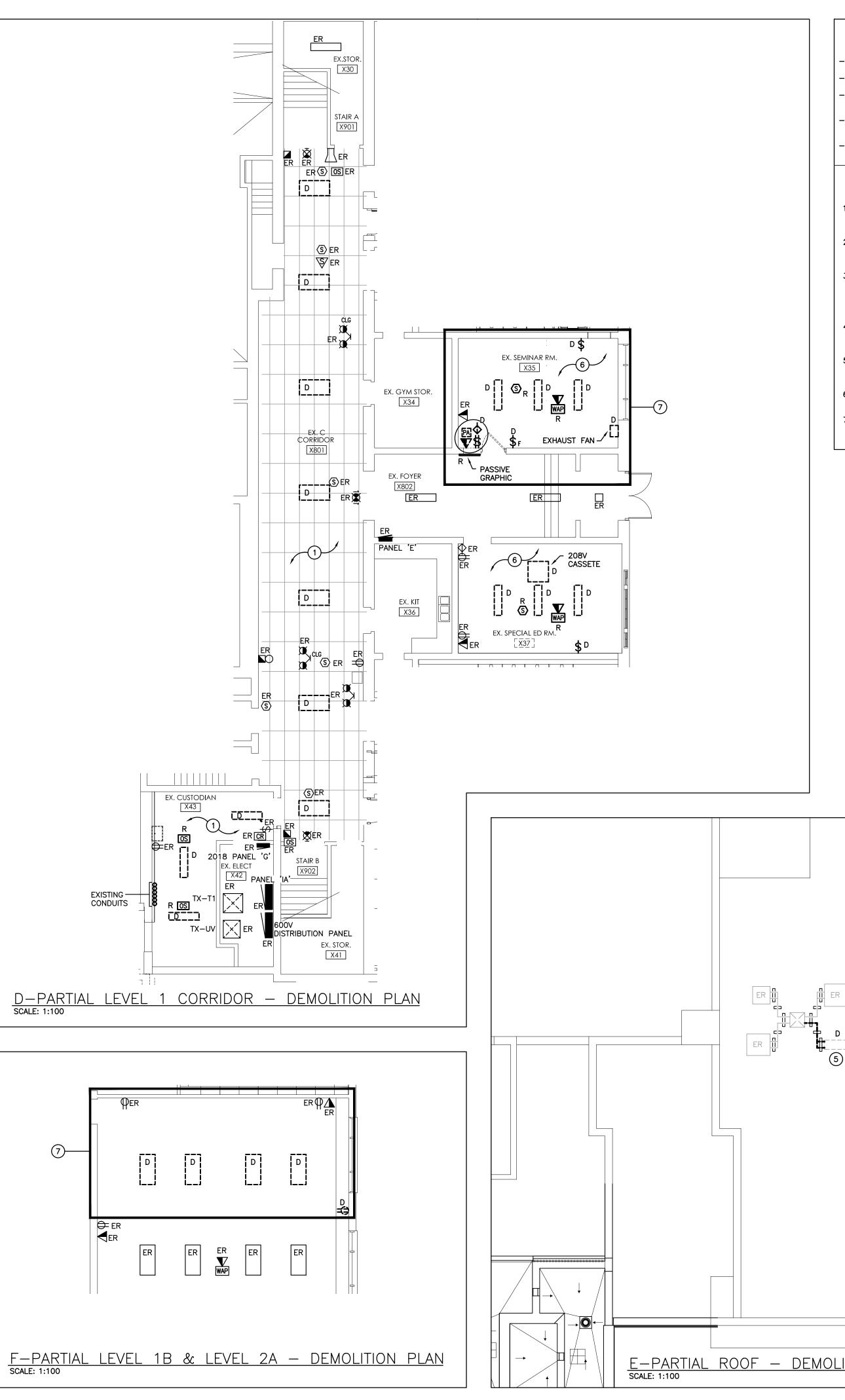
	-	ED LIGHT FIXTURE SCHEDULE				
	Ite	m Manufacturer/Catalog Number	Voltage	Lamp	Mounting	
POWER SUPPLY (BY TRICAL TRADE) FOR	I	COOPER CAT. #4-SNLED-LD5-47SL-LW-UNV-L840-CD-1-AYC-WG/SNF-4FT LITHONIA CAT. #ZL1N SERIES SIGNIFY CAT. #FSS455L840-UNV-DIM / FSSWG4 / FKR-126	120V	41W LED 4900lm 4000°K	SUSPENDED /SURFACE	4'(1220mm) SURFA KIT AND WIRE GUAF
ECTION TO OPERATOR		COOPER CAT. #HC6-1500-D010-HM6-0525-84061-MD-H GOTHAM CAT. #EV06-40/15-AR-WD-LSS-MVOLT-GZ1-TRW ELITE CAT. #HH6-LED-1500L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH	120V	15W LED 1500lm 4000°K	RECESSED	6" (150mm) POTLI POLYMER TRIM RING
		LITHONIA CAT. #2BLT4-40L-ADP-GZ1-LP840 COOPER CAT. #24CZ2-40-UNV-L840-CD-1 ELITE CAT. #24-OVHP-LED-4000L-DIM10-MVOLT-40K-85	120V	32W LED 4000lm 4000°K	RECESSED	2'X4' (610mmX122 AND 0-10V DIMMIN
	L	LITHONIA CAT. #2BLT4-30L-ADP-GZ1-LP840 COOPER CAT. #24CZ2-30-UNV-L840-CD-1 ELITE CAT. #24-OVHP-LED-4000L-DIM10-MV0LT-40K-85	120V	22W LED 3000lm 4000°K	RECESSED	2'X4' (610mmX122 AND 0-10V DIMMIN
<b>●</b> JB	L	2 LITHONIA CAT. #2BLT4-48L-ADP-GZ1-LP840 C/W 2X4SMKSHP COOPER CAT. #24CZ2-50-UNV-L840-CD-1 C/W SK-24-WS ELITE CAT. #24-OVHP-LED-5000L-DIM10-MV0LT-40K-85 C/W 24-0VHP-LED-SMK	120V	38W LED 4800lm 4000°K	SURFACE	2'X4' (610mmX122 0-10V DIMMING DR
BOX (BY RADE)	EME BA		120V	N/A	SURFACE	VANDAL RESISTANT MINUTE BATTERY D
ACTOR.		BO BEGHELLI CAT. EM-1 #QR1236L1MBTMR2SWRMOLR EM-2 #QR1272L1MBTMR2SWRMOLR STANPRO CAT. EM-1#PRML123602S4LR EM-2#PRML127202S4LR AIMLITE CAT. EM-1#CARP1236UU2MDWHT EM-2#CARP1272UU2MDWHT	12V/120V	LED 4W MR16	SURFACE	LED EXTRUDED AL TO SUIT WALL, EN RECHARGABLE BAT INTEGRAL 12V LEE 360° ROTATION. U
	NO"	ES: 1 FOR INFORMATION REGARDING DRIVER AND LENS INFORMATION REFER TO SPECIFICATION. 2 LED LUMEN VALUES QUOTED FOR FIXTURES ARE TO BE CONSIDERED MINIMUM, AND AS ABSOLUTE OR LUMENS. LUMEN VALUES SHOULD NOT EXCEED MORE THAN 10% OF SPECIFIED OUTPUT.	DELIVERED		ARCHITECT OPTIONAL COLOUR ( IF THERE RESPONSI	L DTED ABOVE THAT FI THE FINISH WILL B COLOUR CHART (i.e. CHART WITH SHOP DI ARE ANY DISCREPAN BILITY OF THIS CONT AWING REVIEW.

Space Type	Room Names		Control Sequ
Corridor	TYPICAL		<u>Sequence:</u> MANUAL ON: Lights turned on MANUAL OFF: Lights turned of
Enclosed Offices	TYPICAL		<u>Sequence:</u> ON: Lights turned on manuall ADJUST: The occupant manual each group via wall dimmer. OFF: 5 minutes after the room
SYSTEM DESCRIF	TIONS:		
DIGITAL ROOM CONTROL (DLM) SYS	TEM	LINE	VOLTAGE OCCUPANCY CONTROL
DIGITAL ROOM CONTROL RELAY POUPLUG AND PLAY DIGITAL SENSORS CONTROL STATIONS.			VOLTAGE WALL SENSOR SWITCH ER PACKS WITH HARD WIRED SE

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# GENERAL DEMOLITION NOTES

- 'ER' DENOTES EXISTING ITEM TO REMAIN.
- 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 BEING REINSTALLED.

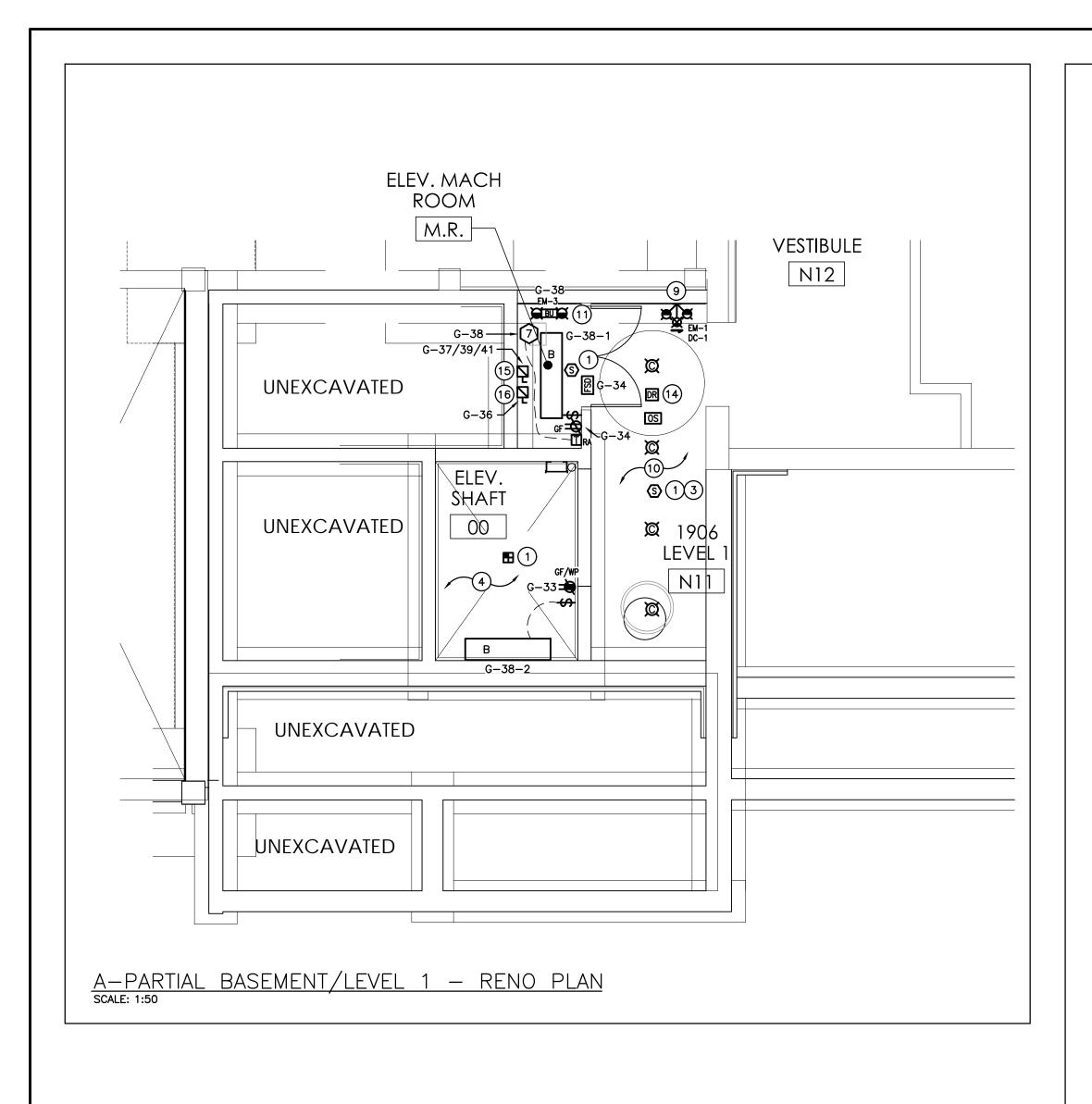
### SPECIFIC DEMOLITION NOTES

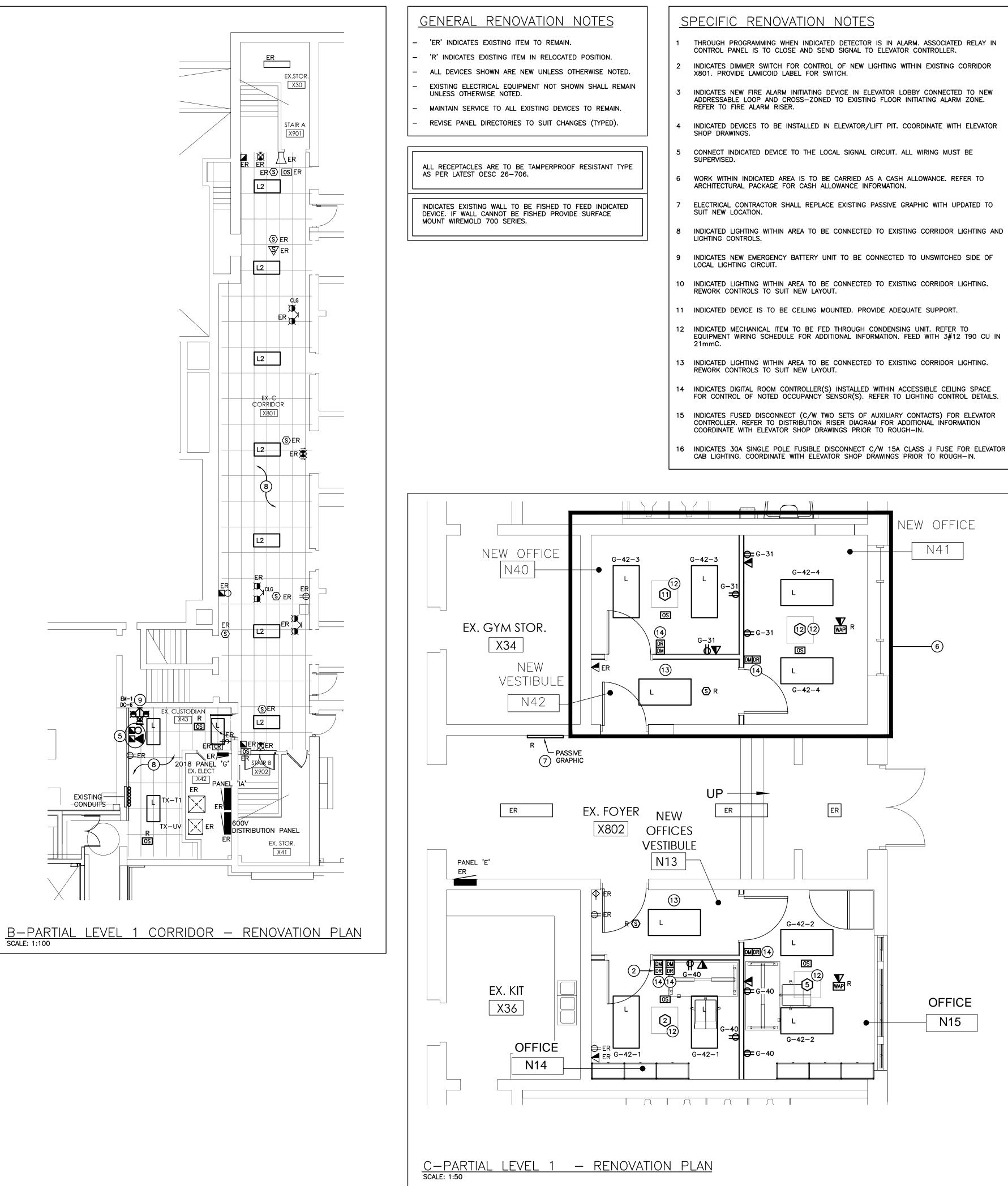
PLANS.

- LIGHTING FIXTURES WITHIN AREA TO BE DEMOLISHED. MAINTAIN LIGHTING CIRCUITS AND LIGHTING CONTROLS FOR RECONNECTION TO NEW LIGHTING AS SHOWN ON RENOVATION
- INDICATES DOOR OPERATOR CONNECTION AND ANY ASSOCIATED AUXILIARY DEVICES TO BE RELOCATED TO NEW ENTRANCE AS SHOWN ON RENOVATION PLANS. MAINTAIN AND EXTEND WIRING FOR RECONNECTION TO NEW LOCATION.
- INDICATES EXISTING FIRE ALARM CONTROL PANEL TO BE DEMOLISHED. ELECTRICAL CONTRACTOR IS TO EXTEND/RE-ROUTE ALL EXISTING FEEDS TO SUIT TEMPORARY AND NEW LOCATIONS OF NEW FIRE ALARM CONTROL PANEL AS SHOWN ON RENOVATION. PROVIDE VERIFICATION OF ALL DEVICES PER SPECIFICATIONS. RETAIN EXISTING PANEL FOR INSTALLATION AT TEMPORARY LOCATION AS NECESSARY.
- INDICATES MECHANICAL EQUIPMENT BEING REMOVED BY MECHANICAL TRADE. THIS CONTRACTOR IS TO DISCONNECT AND REMOVE FEEDER BACK TO SOURCE. DISCONNECT AND REMOVE ALL CONTROL DEVICES. LABEL SOURCE DEVICE AS SPARE.
- INDICATES MECHANICAL EQUIPMENT BEING REPLACED WITH NEW BY MECHANICAL TRADE. THIS CONTRACTOR IS TO DISCONNECT AND RE-CONNECT EXISTING FEEDER TO NEW DEVICE. REFER TO RENOVATION PLANS FOR CONTINUATION.
- LIGHTING FIXTURES AND CONTROLS WITHIN AREA TO BE DEMOLISHED. MAINTAIN LIGHTING CIRCUITS FOR RECONNECTION TO NEW LIGHTING AS SHOWN ON RENOVATION PLANS. WORK WITHIN INDICATED AREA IS TO BE CARRIED AS A CASH ALLOWANCE. REFER TO ARCHITECTURAL PACKAGE FOR CASH ALLOWANCE INFORMATION.

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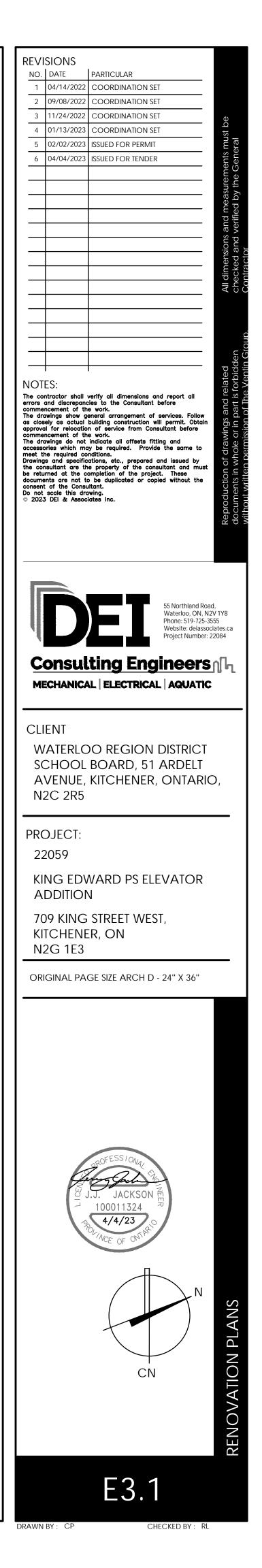
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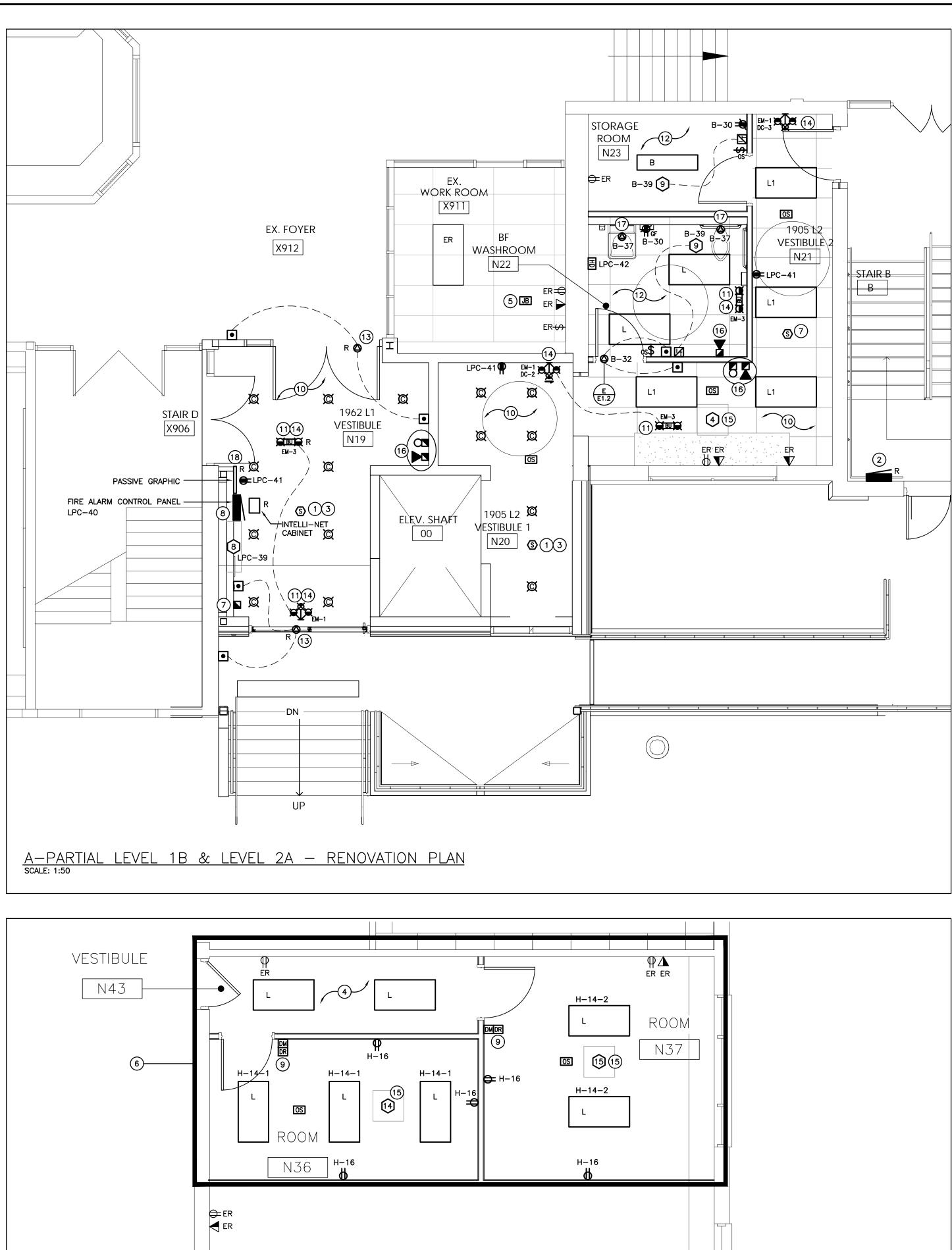


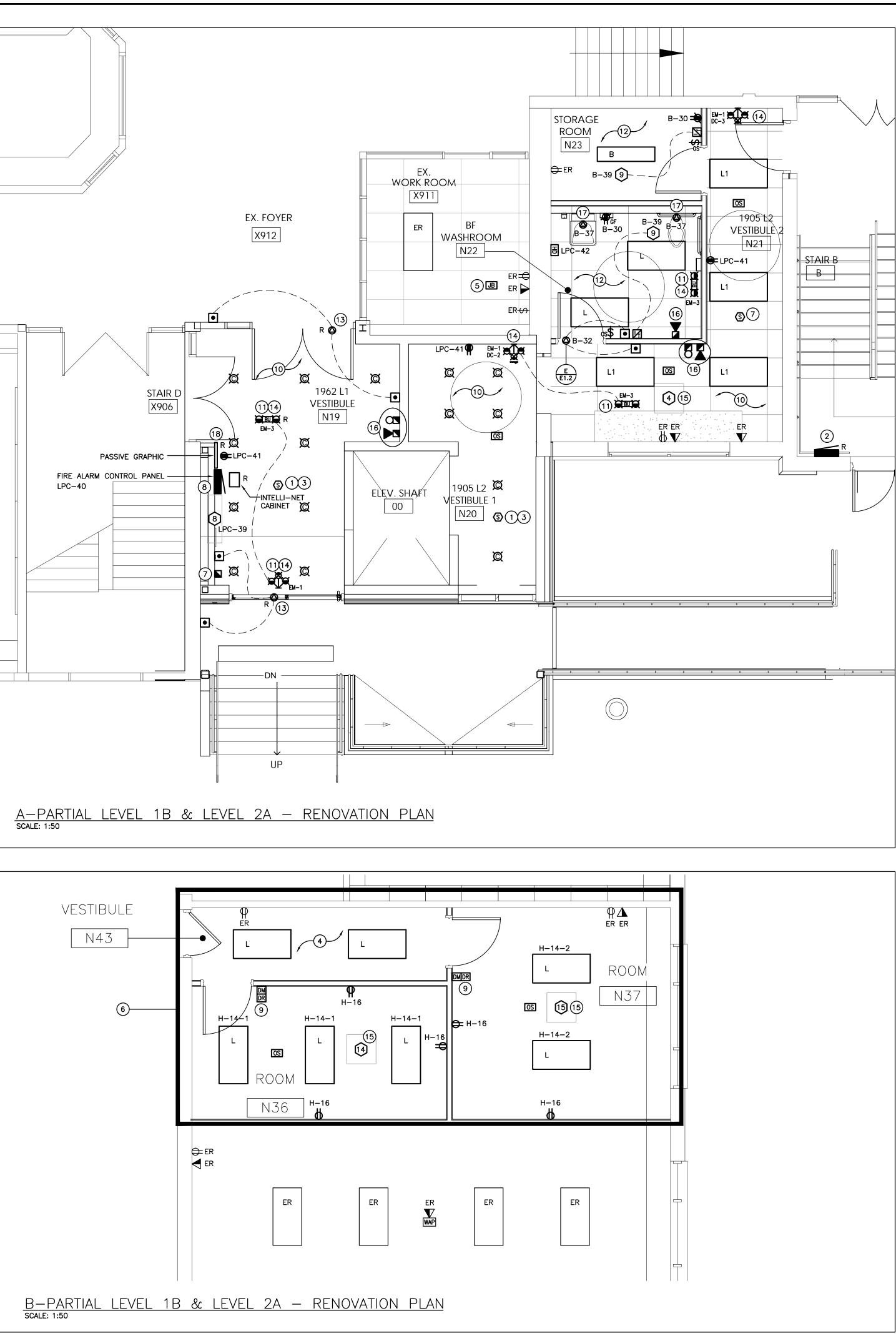


- INDICATED DEVICES TO BE INSTALLED IN ELEVATOR/LIFT PIT. COORDINATE WITH ELEVATOR

- ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING PASSIVE GRAPHIC WITH UPDATED TO
- INDICATED LIGHTING WITHIN AREA TO BE CONNECTED TO EXISTING CORRIDOR LIGHTING AND



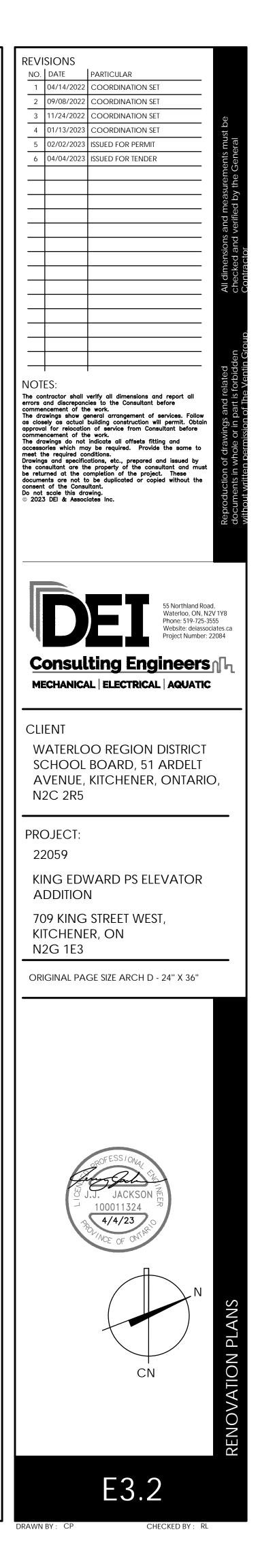


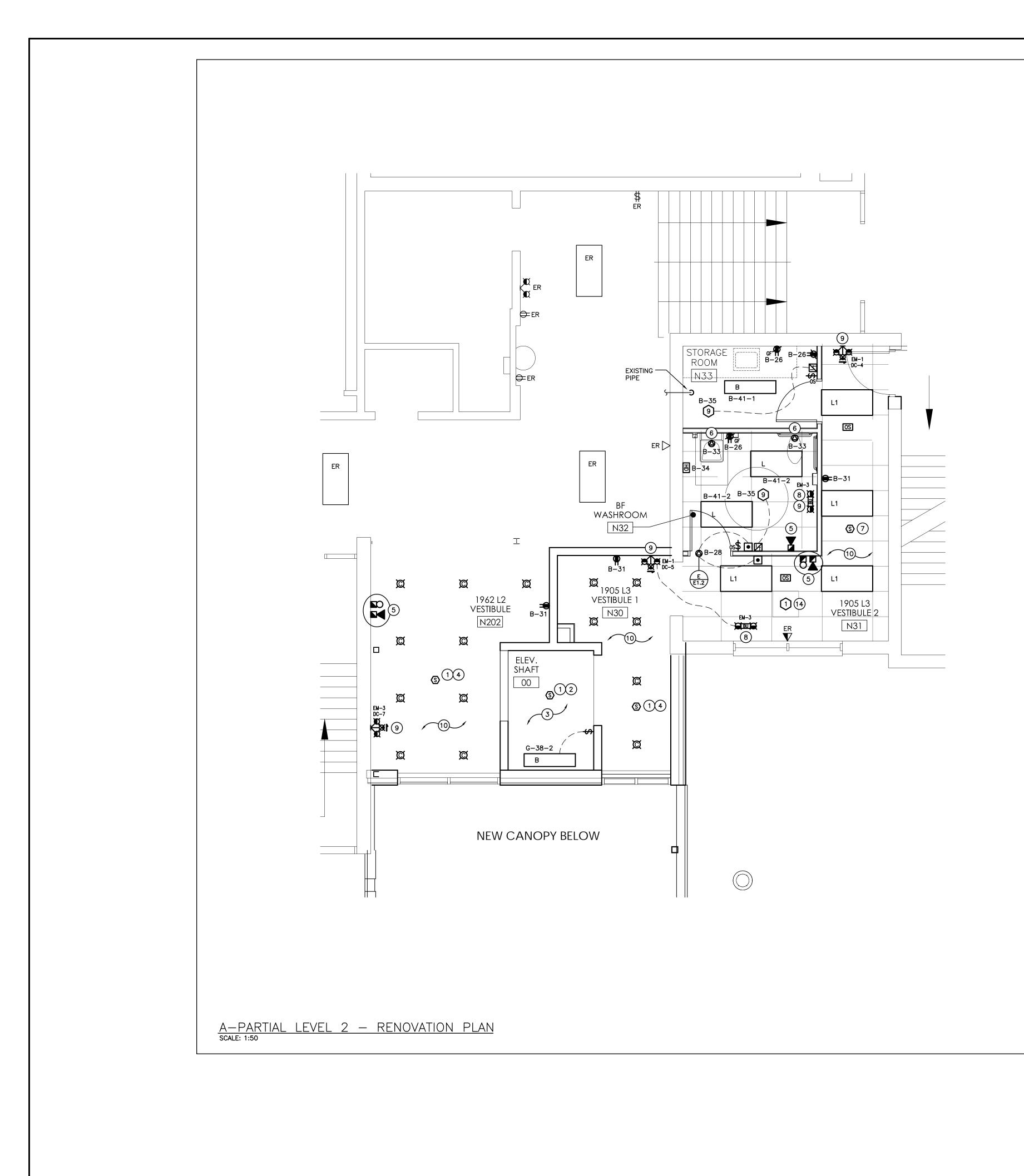


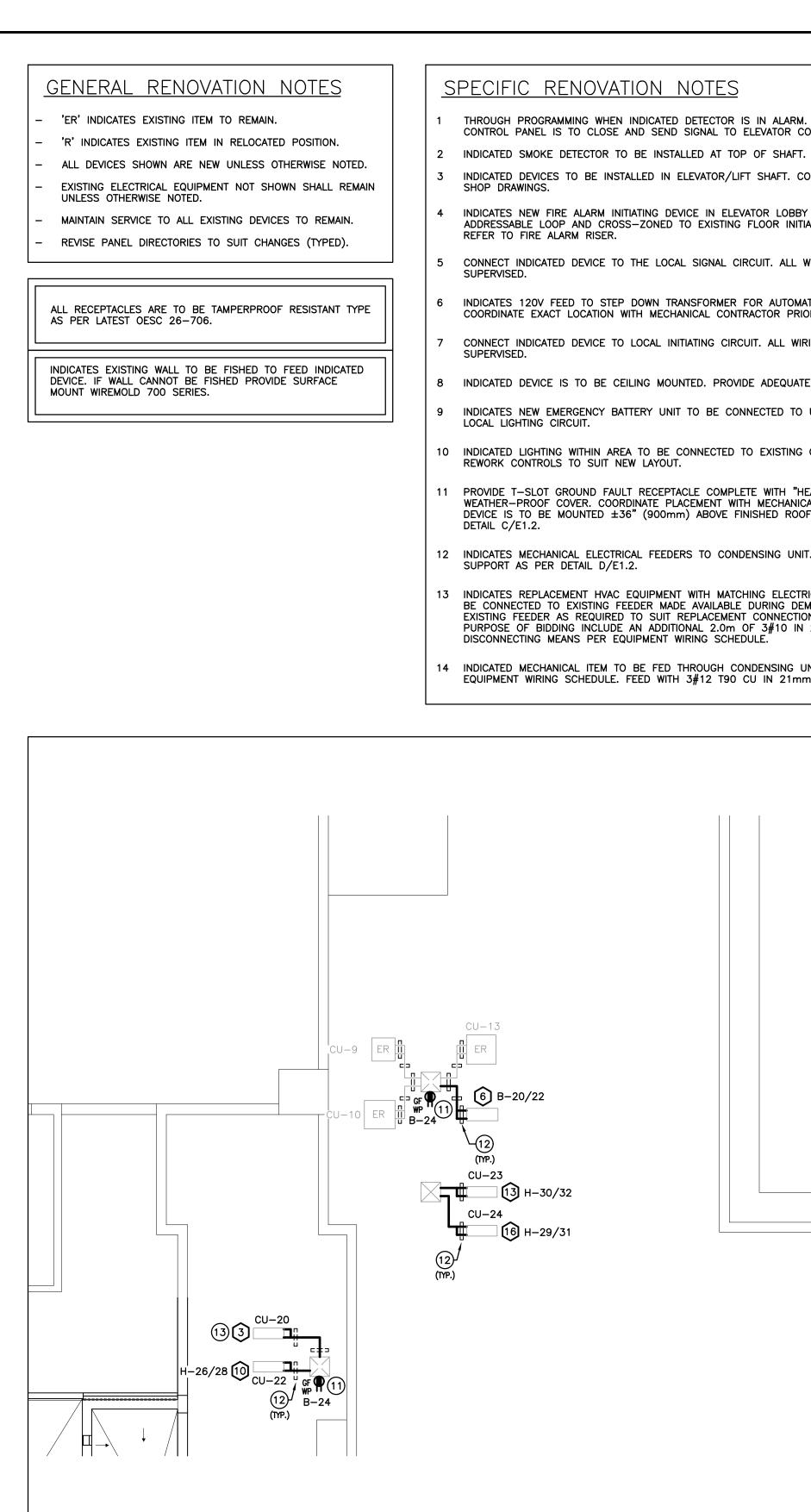
# GENERAL RENOVATION NOTES 'ER' INDICATES EXISTING ITEM TO REMAIN. 'R' INDICATES EXISTING ITEM IN RELOCATED POSITION. ALL DEVICES SHOWN ARE NEW UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN SHALL REMAIN UNLESS OTHERWISE NOTED. MAINTAIN SERVICE TO ALL EXISTING DEVICES TO REMAIN. REVISE PANEL DIRECTORIES TO SUIT CHANGES (TYPED). ALL RECEPTACLES ARE TO BE TAMPERPROOF RESISTANT TYPE AS PER LATEST OESC 26-706. INDICATES EXISTING WALL TO BE FISHED TO FEED INDICATED DEVICE. IF WALL CANNOT BE FISHED PROVIDE SURFACE MOUNT WIREMOLD 700 SERIES.

# SPECIFIC RENOVATION NOTES

- THROUGH PROGRAMMING WHEN INDICATED DETECTOR IS IN ALARM. ASSOCIATED RELAY IN CONTROL PANEL IS TO CLOSE AND SEND SIGNAL TO ELEVATOR CONTROLLER. INDICATES TEMPORARY LOCATION FIRE ALARM CONTROL PANEL TO BE RELOCATED FROM DEMO AREA. WIRE NEW FIRE ALARM ZONES THROUGH PATHWAY OF RE-ROUTED EXISTING ZONE WIRING TO TEMPORARY LOCATION TO ALLOW FOR TERMINATION AT FINAL LOCATION. INDICATES NEW FIRE ALARM INITIATING DEVICE IN ELEVATOR LOBBY CONNECTED TO NEW ADDRESSABLE LOOP AND CROSS-ZONED TO EXISTING FLOOR INITIATING ALARM ZONE. REFER TO FIRE ALARM RISER. INDICATED LIGHTING WITHIN AREA TO BE CONNECTED TO EXISTING CORRIDOR LIGHTING AND LIGHTING CONTROLS. INDICATES 10"x10" JUNCTION BOX WITHIN ACCESSIBLE CEILING SPACE COMPLETE WITH WIRE TERMINAL BLOCKS FOR RECONNECTING FIRE ALARM ZONES TO NEW FIRE ALARM CONTROL PANEL LOCATION. WORK WITHIN INDICATED AREA IS TO BE CARRIED AS A CASH ALLOWANCE. REFER TO ARCHITECTURAL PACKAGE FOR CASH ALLOWANCE INFORMATION. CONNECT INDICATED DEVICE TO LOCAL INITIATING CIRCUIT. ALL WIRING MUST BE SUPERVISED. INDICATES FINAL LOCATION OF FIRE ALARM CONTROL PANEL TO BE RELOCATED FROM TEMPORARY DEMO AREA. COORDINATE INSTALLATION OF OLD/NEW PANEL WITH CONNECTION OF NEW ZONES. INDICATES DIGITAL ROOM CONTROLLER(S) INSTALLED WITHIN ACCESSIBLE CEILING SPACE FOR CONTROL OF NOTED OCCUPANCY SENSOR(S). REFER TO LIGHTING CONTROL DETAILS. 10 INDICATED LIGHTING WITHIN AREA TO BE CONNECTED TO EXISTING CORRIDOR LIGHTING. REWORK CONTROLS TO SUIT NEW LAYOUT. 11 INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT. 12 INDICATED LIGHTING WITHIN AREA TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT MADE AVAILABLE DURING DEMOLITION. REWORK CONTROLS TO SUIT NEW LAYOUT. 13 RECONNECT DOOR OPERATOR AND ANY ASSOCIATED AUXILIARY DEVICES MADE AVAILABLE
- DURING DEMOLITION. 14 INDICATES NEW EMERGENCY BATTERY UNIT TO BE CONNECTED TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT.
- 15 INDICATED MECHANICAL ITEM TO BE FED THROUGH CONDENSING UNIT. REFER TO EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL INFORMATION. FEED WITH 3#12 T90 CU IN 21mmC.
- 16 CONNECT INDICATED DEVICE TO THE LOCAL SIGNAL CIRCUIT. ALL WIRING MUST BE SUPERVISED.
- 17 INDICATES 120V FEED TO STEP DOWN TRANSFORMER FOR AUTOMATIC PLUMBING FIXTURES. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.







<u>B-PARTIAL ROOF - RENOVATION PLAN</u> scale: 1:100

# SPECIFIC RENOVATION NOTES

- THROUGH PROGRAMMING WHEN INDICATED DETECTOR IS IN ALARM. ASSOCIATED RELAY IN CONTROL PANEL IS TO CLOSE AND SEND SIGNAL TO ELEVATOR CONTROLLER.
- INDICATED DEVICES TO BE INSTALLED IN ELEVATOR/LIFT SHAFT. COORDINATE WITH ELEVATOR
- INDICATES NEW FIRE ALARM INITIATING DEVICE IN ELEVATOR LOBBY CONNECTED TO NEW ADDRESSABLE LOOP AND CROSS-ZONED TO EXISTING FLOOR INITIATING ALARM ZONE. REFER TO FIRE ALARM RISER.
- CONNECT INDICATED DEVICE TO THE LOCAL SIGNAL CIRCUIT. ALL WIRING MUST BE
- INDICATES 120V FEED TO STEP DOWN TRANSFORMER FOR AUTOMATIC PLUMBING FIXTURES. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- CONNECT INDICATED DEVICE TO LOCAL INITIATING CIRCUIT. ALL WIRING MUST BE
- 8 INDICATED DEVICE IS TO BE CEILING MOUNTED. PROVIDE ADEQUATE SUPPORT.
- INDICATES NEW EMERGENCY BATTERY UNIT TO BE CONNECTED TO UNSWITCHED SIDE OF LOCAL LIGHTING CIRCUIT.
- 10 INDICATED LIGHTING WITHIN AREA TO BE CONNECTED TO EXISTING CORRIDOR LIGHTING. REWORK CONTROLS TO SUIT NEW LAYOUT.
- 11 PROVIDE T-SLOT GROUND FAULT RECEPTACLE COMPLETE WITH "HEAVY DUTY IN-USE" WEATHER-PROOF COVER. COORDINATE PLACEMENT WITH MECHANICAL TRADE. INDICATED DEVICE IS TO BE MOUNTED ±36" (900mm) ABOVE FINISHED ROOF LEVEL. REFER TO
- 12 INDICATES MECHANICAL ELECTRICAL FEEDERS TO CONDENSING UNIT. PROVIDE CONDUIT SUPPORT AS PER DETAIL D/E1.2.
- 13 INDICATES REPLACEMENT HVAC EQUIPMENT WITH MATCHING ELECTRICAL REQUIREMENTS TO BE CONNECTED TO EXISTING FEEDER MADE AVAILABLE DURING DEMOLITION. EXTEND EXISTING FEEDER AS REQUIRED TO SUIT REPLACEMENT CONNECTION POINT. FOR THE PURPOSE OF BIDDING INCLUDE AN ADDITIONAL 2.0m OF 3#10 IN 21mmC AS WELL AS DISCONNECTING MEANS PER EQUIPMENT WIRING SCHEDULE.
- 14 INDICATED MECHANICAL ITEM TO BE FED THROUGH CONDENSING UNIT. REFER TO EQUIPMENT WIRING SCHEDULE. FEED WITH 3#12 T90 CU IN 21mmC.

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SC A N: PRC 22 KI A 7C KI	vaterlo Chool Venue, 2C 2R5 Dject: 2059 Ng edv Ddition	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR N STREET WEST,	D,
S( A N: PR( 22 KI A 7( KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR N STREET WEST,	D, 
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D, 
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D, 
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D, 
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D, 
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D,
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, ER, ON GE SIZE ARCH D - 24" X 36"	D,
S( A) N2 PR( 22 KI A 7( KI N2	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, ER, ON GE SIZE ARCH D - 24" X 36"	D,
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	Board, 51 Ardelt Kitchener, Ontaric Vard PS Elevator N Street West, ER, ON	D,
S( A) N2 PR( 22 KI A 7( KI N2	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, R, ON GE SIZE ARCH D - 24" X 36"	
S( A) N2 PR( 22 KI A 7( KI N2	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
S( A) N: PR( 22 KI A 7( KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
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SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
SC A N: PRC 22 KI A 70 KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, R, ON GE SIZE ARCH D - 24" X 36"	
S( A) N: PR( 22 KI A 7( KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC	
S( A) N: PR( 22 KI A 7( KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, R, ON GE SIZE ARCH D - 24" X 36"	
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S( A) N: PR( 22 KI A 7( KI N:	ATERLO CHOOL VENUE, 2C 2R5 DJECT: 2059 NG EDV DDITION 09 KING TCHENE 2G 1E3	BOARD, 51 ARDELT KITCHENER, ONTARIC VARD PS ELEVATOR STREET WEST, R, ON GE SIZE ARCH D - 24" X 36"	RENOVATION PLANS

E3.3

CHECKED BY : RL

DRAWN BY : CP

3#10	Т90
21mm	٦C

ELEVATOR

ELEVATOR

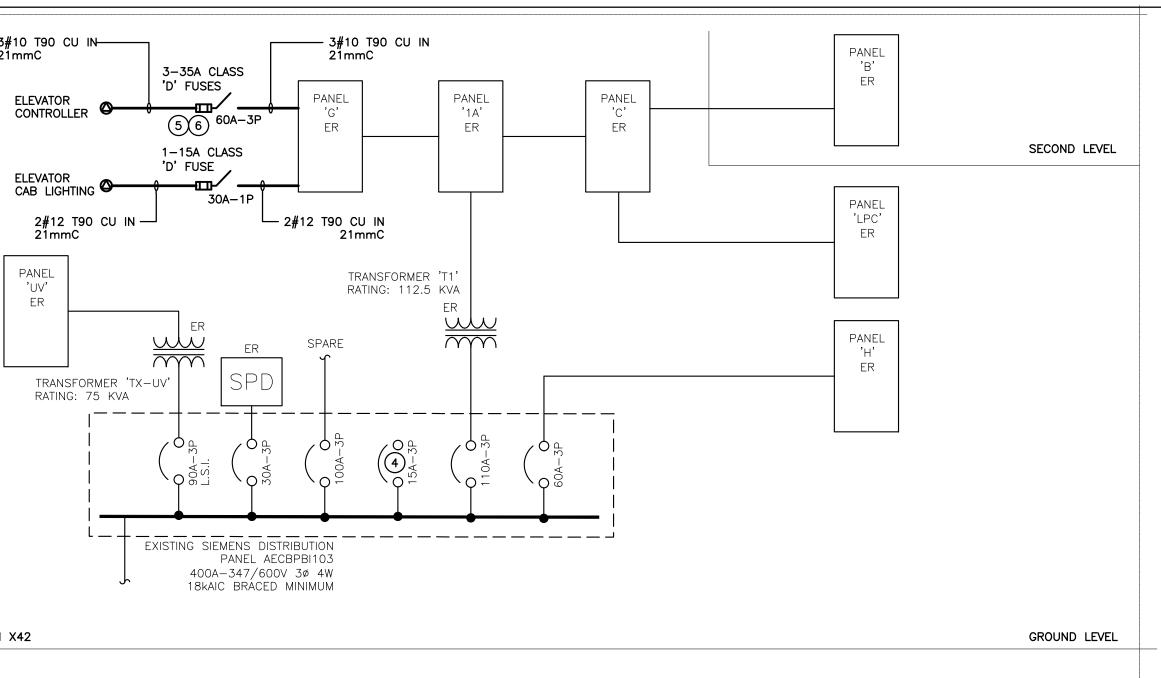
PANEL 'UV' ER

ELEC RM X42

SCALE: N.T.S.

	JLE			<u>(ISTING PANEL 'G' SCHEE</u>		
			PHAS MAIN NEUT MOU	GGE: 208/120 VOLTS SE: 3P, 4W S: 100A IRAL BUS: NTING: SURFACE E/MODEL: SIEMENS/P1 NEXT GEN		
1						
3	2 20A 3RD FLOOR STAFF HOT WATER		ER ER	EXISTING $15A$ $1$ 30 A UPS REC. 30A $3$	2 <u>15A</u> PHONES 4 15A CHUBB SECURIT	ER FY ER
5	6 15A CUSTODIAL ROOM LIGHTS		ER	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$6 \sim 20A$ EXISTING	ER
7	8 15A ROOM 2 REC	ER	ER	STOVE 40A 7	8 15A RM 19 FRIDGE	ER
9	10 15A EXISTING LOAD	ER	ER		10 15A RM 19 MICROW	
11	12 15A ROOM 1 REC	ER	ER	HUR REC. 15A11	12 15A RM 19 MICROW	AVE ER
13	14 SPACE	NB	ER	MAIN OFFICE COMP. 15A13	14 <u>15A</u> RM 19 DISHWSI	
15		NB	ER	STAIR LIGHTS 15A 15	16 15A RM 19 REC. N	
17	18 15A EXISTING LOAD	ER ER	ER	MAIN OFFICE FL. REC. 15A 17	18 15A RM 19 REC.	ER ER
21	20 15A EXISTING LOAD		ER ER	WATER FOUNTAIN 15A 19 EXHAUST FAN ELEC. ROOM 15A 21	20 <u>15A</u> SECURITY 22 15A RM 19 LIGHTING	
23		ER	ER	RM 19 PHOTOCOPIER 20A 23	24 15A RM 19 BATHRO	
25		NB	ER	RM 19 COUNTER25	26 20A RM 19 COUNTE	
27	28 SPACE	NB	ER	RM 19 UV-4 VENTILATOR 15A 27	28 20A RM 27 SPECIAL	ED. REC. ER
29	30 SPACE	NB	ER			
31	32 SPACE	NB	NB	SPACE	32 15A BOILER ROOM V	
33	34 SPACE 36 20A EXISTING LOAD	ER	NB	SPACE 33 SPACE 35		NB
35	36 20A EXISTING LOAD 38 20A CORRIDOR 81- REC	ER ER	NB NB	SPACE 35 SPACE 37	36 SPACE 38 SPACE	NB NB
39	40 15A LIBRARY 3 E REC & PDO	ER	NB	SPACE 39		NB
41	42 15A SEMINAR 3 A REC	ER	NB	SPACE		NB
<u>SCHE</u>	DULE       PROVIDE A NEW TYPE WRITTEN PADIRECTORY AND INCLUDE A COPY         DIRECTORY AND INCLUDE A COPY         THE MAINTENANCE MANUALS         2       2004 3RD FLOOR STAFF HOT WATER			EXISTING 15A 1	EDULE PROVIDE A NEW TYPE DIRECTORY AND INC THE MAINTENANCE M	LUDE A COPY IN
3	$4 \qquad 2P$	ER	ER	30 A UPS REC. 30A 3	4 15A CHUBB SECURI	
5	6 15A CUSTODIAL ROOM LIGHTS	ER	ER	KITCHEN REC. 15A 5	6 20A EXISTING	ER
7	8 15A ROOM 2 REC	ER	ER	STOVE 40A 7	8 15A RM 19 FRIDGE	ER
9	10 15A EXISTING LOAD	ER	ER	<u>_2P</u> 9	10 15A RM 19 MICROW	AVE ER
, 11	12 <u>15A</u> ROOM 1 REC	ER	ER	HUR REC. 15A11	12 <u>15A</u> RM 19 MICROW	
13		NB	ER	MAIN OFFICE COMP. 15A 13	14 15A RM 19 DISHWSI	
15	16 15A ROOMS N40/N41 REC	<b>NB</b> ER	ER ER	STAIR LIGHTS <u>154</u> <u>15</u> MAIN OFFICE FL. REC. <u>154</u> <u>17</u>	16 15A RM 19 REC. N	+W ER ER
19	20  15A EXISTING LOAD		ER	WATER FOUNTAIN 15A 19	18 15A RM 19 REC.	ER
21	22 To 40A EXISTING LOAD	ER	ER	EXHAUST FAN ELEC. ROOM 15A 21	22 <u>15A</u> RM 19 LIGHTING	
23		ER	ER	RM 19 PHOTOCOPIER 20A 23	24 15A RM 19 BATHRO	
25	26 30A ROOFTOP CU-22 10	NB	ER	RM 19 COUNTER 20A 25	<u>2620A</u> RM 19 COUNTE	R REC. ER
27	28 2P		ER	RM 19 UV-4 VENTILATOR 15A 27	<u>28</u> 20ARM_27_SPECIAL	
29	30 30A ROOFTOP CU-23 13	NB	ER		30 15A BASEMENT WASI	
31			NB	OFFICE N40/N41 REC 15A 31	32 15A BOILER ROOM V	
33	34 SPACE 36 20A EXISTING LOAD	ER ER	NB NB	ELEVATOR PIT REC       20A       33         ELEVATOR CAB       LIGHTING       15A       35	34 <u>15A</u> ELEV. MACH. RM R 36 15A ELEVATOR CAB	
37	$38 \sim 20A$ CORRIDOR 81- REC		NB	ELEVATOR CONTROLLER 35A 37	36         15A         ELEVATOR         CAB           38         15A         ELEV.         PIT/EMR         L'	▲
39	40 15A LIBRARY 3 E REC & PDO	ER	NB		40 15A OFFICE N13/N1	
41	42 15A SEMINAR 3 A REC	ER	NB		42 15A OFFICE N13/N1	
			DESI	GNATION		
' BECOME DULD BE F D FOR NE O SERVICI EMOVED C E BREAKE	SHOULD REMAIN UNTOUCHED SPARE DUE TO DEMOLITION. (CONFIRM ON SITE REWIRED TO SERVICE DEVICES INDICATED ON PL W SERVICE INDICATED. INDICATED. PROVIDE MOUNTING HARDWARE AS OMPLETE. PROVIDE FILLER PLATES AS REQUIRED RS AND REVISE PANEL SCHEDULES TO SUIT	ÁN	'SP' 'RW' 'SB' 'NB' REQ 'D'	INDICATES EXISTING BREAKER THAT SHOULD BE INDICATES SPARE BREAKER TO BE USED FOR N INDICATES NEW BREAKER AND WIRING TO SERVI UIRED. INDICATES EXISTING BREAKER TO BE REMOVED ES: THIS CONTRACTOR IS TO INVESTIGATE BREAK	E SPARE DUE TO DEMOLITION. (COI REWIRED TO SERVICE DEVICES IND EW SERVICE INDICATED. CE INDICATED. PROVIDE MOUNTING COMPLETE. PROVIDE FILLER PLATES ERS AND REVISE PANEL SCHEDULI	HARDWARE AS AS REQUIRED. ES TO SUIT
IE CONSU	COME SPARE DUE TO DEMOLITION. THIS TANT OF ANY BREAKERS THAT ARE INDICATED IN USE BY OTHER DEVICES OR SERVICES.	то		RENOVATION, NOTING ANY BREAKERS THAT E CONTRACTOR IS ALSO TO NOTIFY THE CONS BE DEMOLISHED OR REUSED, BUT WHICH AF	JLTANT OF ANY BREAKERS THAT A	RE INDICATED TO
	22kAIC FOR BIDDING.			BREAKERS TO MATCH EXISTING KAIC, ASSUM	A 224AIC FOR BIDDING	

EXISTING PANEL 'H' SC VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W MAINS: 225A NEUTRAL BUS: MOUNTING: RECESSED NOTES: EXISTING SQUARE D TYPE NQ442L2 LIBRARY LIGHTS 3 W 15A I ER I LIBRARY LIGHTS 3 E <u>15A</u> FR EXISTING LOAD 15A LIBRARY REC. 3 W 15A EXISTING LOAD 15A LIBRARY REC 3 IT 15A FR EXISTING LOAD 15A ER LIBRARY REC 3 CHARGING 15A ER EMERGENCY LIGHTS FLOOR 3 15A EXISTING LOAD 15A \_\_\_\_\_1 ROOM 1 REC <u>15A</u> ER EMER. LTG/MAG LOCK \_\_\_\_\_\_ ER LIBRARY REC 3 CIRC. DESK 15A LIBRARY FIREPLACE <u>15A</u>2 ER NB SPACE NR SPACE \_\_\_\_\_ FR \_\_\_\_\_ LIBRARY 3 W VENT UV-7 154 ER LIBRARY 3 E VENT UV-8 15A 39 2P 4 PROPOSED PANEL 'H' S LIBRARY LIGHTS 3 W 15A LIBRARY LIGHTS 3 E <u>15A</u> EXISTING LOAD 15A ER LIBRARY REC. 3 W 15A EXISTING LOAD 15A FR LIBRARY REC 3 IT 15A EXISTING LOAD 15A LIBRARY REC 3 CHARGING <u>15A</u><u>1</u> ER ER EMERGENCY LIGHTS FLOOR 3 154 EXISTING LOAD 15A ROOM 1 REC 15A EMER. LTG/MAG LOCK 15A FR LIBRARY REC 3 CIRC. DESK 15A ER LIBRARY FIREPLACE 15A ER SPACE \_\_\_\_\_\_\_\_\_3 LIBRARY 3 W VENT UV-7 15A ER \_\_\_\_\_P LIBRARY 3 E VENT UV-8 15A ER DESIGNATION 'ER' INDICATES EXISTING SERVICE AND BREAKE 'SP' INDICATES EXISTING BREAKER THAT MAY 'RW' INDICATES EXISTING BREAKER THAT SHOUL 'SB' INDICATES SPARE BREAKER TO BE USED 'NB' INDICATES NEW BREAKER AND WIRING TO REQUIRED. 'D' INDICATES EXISTING BREAKER TO BE REM NOTES: THIS CONTRACTOR IS TO INVESTIGATE RENOVATION, NOTING ANY BREAKERS CONTRACTOR IS ALSO TO NOTIFY THE BE DEMOLISHED OR REUSED, BUT WH BREAKERS TO MATCH EXISTING KAIC,



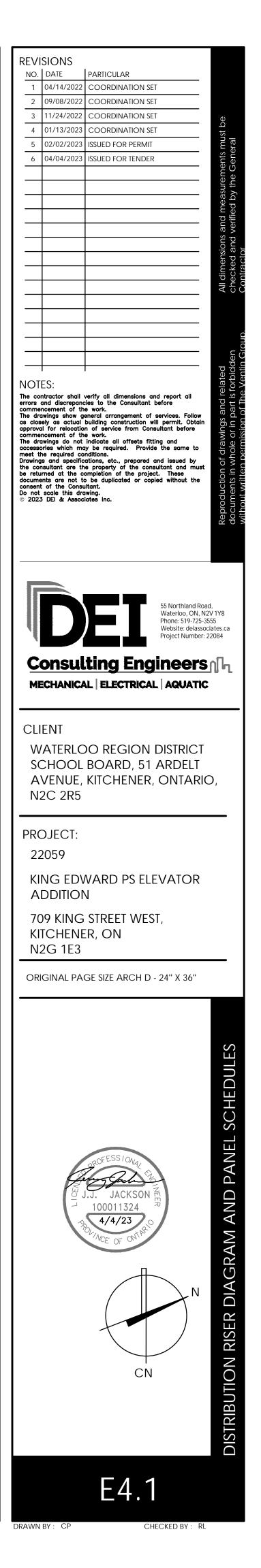
### PARTIAL DISTRIBUTION RISER DIAGRAM

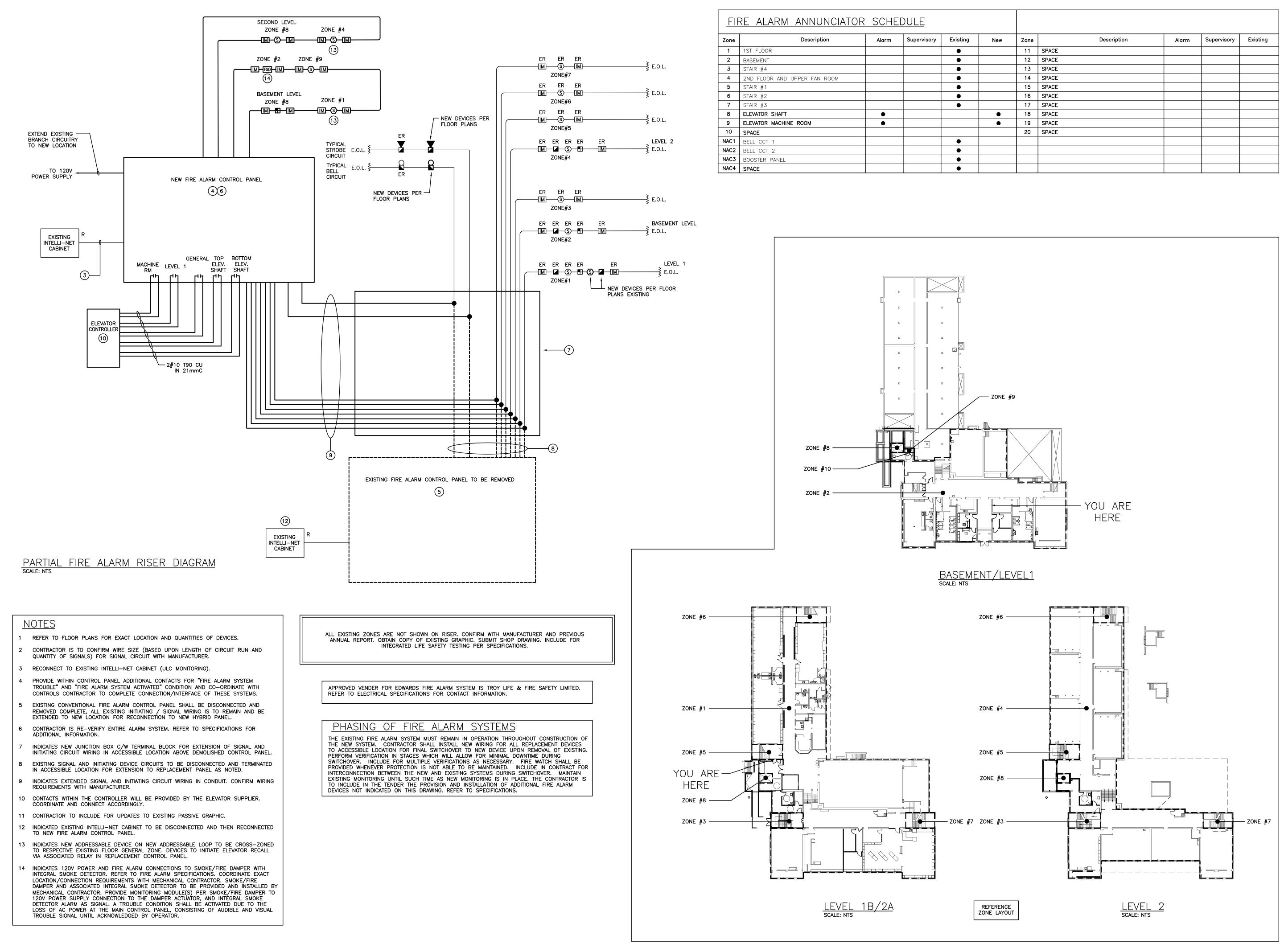
EXISTING PANEL 'LPC' SCHEDULE		<u>XISTING PAN</u>	<u>iel 'b' sche</u>	EDULE		
VOLTAGE: 120/208 VOLTS PHASE: 3P, 4W		LTAGE: 120/208 VOLTS ASE: 3P, 4W				
MAINS: 225A NEUTRAL BUS:		INS: 225A UTRAL BUS:				
MOUNTING: RECESSED NOTES: EXISTING CUTLER HAMMER TYPE PL-1		UNTING: RECESSED TES: EXISTING SQUARE	D TYPE NQ442L2			
ER CORRIDOR 811 LIGHTS 15A 1 2 15A ROOM 10 REC	ER	ROOM 16	LIGHTS 20A 1		20A ROOM 17 LIGHTS	ER
ER RM 12 REC/HEATER STAIR 2ND FLR 15A 3 4 20A ROOM 57,58 REC	ER	ROOM 18	LIGHTS 20A 3		20A ROOM 15 LIGHTS	ER
ER       ROOM 11 REC 15A 5       6 15A UNIR. WR/EMER. LTG PACK         ER       ROOM 11 REC 15A 7       8 15A OUTSIDE REC	ER ER		LIGHTS 20A 5 LIGHTS 15A 7		20A ROOM 13 LIGHTS 15A ROOM 17 REC	ER ER
$\begin{bmatrix} R \\ ROOM 11 UNIT VENT UV-1 \\ 15A \\ 9 \\ 10 \\ 15A \\ $	ER		LIGHTS 15A 9		<u>15A</u> ROOMS 13,14 REC	ER
ER ROOM 12 UNIT VENT UV-3 15A 11 12 20A EXISTING LOAD	ER	EXISTIN	IG LOAD 15A11	12	15A CORRIDOR LIGHTS	ER
EROUTSIDE LIGHTS15A131420AROOM10,11LIGHTINGERCORRIDOR811LIGHTS151620AROOM12,57,58LIGHTING	ER ER		LIGHTS <u>15A</u> <u>13</u> IG LOAD <u>15A</u> <u>15</u>		15A EXISTING LOAD 15A EXISTING LOAD	ER ER
ER  PHOTOCOPY MACHINE    15A    0    17    18	ER		$17 \text{ REC} \underline{15A} \underbrace{17}{17}$		<u>15A</u> ROOM 17 REC	ER
ER RM 10 REC/HEATER STAIR 2ND FLR 15A 19 20 15A ROOM 10 UNIT VENT UV-2	ER	CORRIDOR MAGNETIC LOO	CKS/REC 15A 19	20	SPACE	NB
ER   ROOM 12 REC   15A   21   22   15A   ROOM 12 REC     ER   EXISTING LOAD   40A   23   24   15A   EXISTING LOAD	ER ER	ROOM 12 CONDENSING U		22	SPACE SPACE	NB NB
ER     EXISTING LOAD     40A     23     24     15A     EXISTING LOAD       ER     2P     25     26     15A     OLD STAIRS MAGNETIC LOCK	ER	ROOM 12 CONDENSING U	$\begin{array}{c c} 2P & 23 \\ \hline & 23 \\ \hline & 25 \\ \hline & 25 \\ \hline \\ \end{array}$	24	SPACE	NB
ER ROOM 11 CONDENSING UNIT C-1 30A 27 28 15A HAND DRYER & BRADLEY 57	ER			28	SPACE	NB
ER     2P     29     30     15A     EXISTING LOAD       ER     HAND DRYER & BRADLEY 58     15A     31     32     70A     DISTRIBUTION PANEL 'B'	ER ER	DRINKING FO	OUNTAIN <u>15A</u> 29 SPACE 31	30	SPACE SPACE	NB NB
ER       HAND DRYER & BRADLEY 58       15A       31       32       70A       DISTRIBUTION PANEL 'B'         ER       DISTRIBUTION PANEL 'LPF'       60A       33       34       -	ER		SPACE	32	SPACE SPACE	NB
ER 35 36 3P	ER		SPACE 35	36	20A EXISTING LOAD	ER
$\begin{array}{c c} ER \\ ER \\ ER \\ CDA05 \\ \hline \\ C$	ER		SPACE		20A EXISTING LOAD	ER
NB     SPACE     39     40     SPACE       NB     SPACE     41     42     SPACE	NB NB		SPACE 39 SPACE 41		15A EXISTING LOAD 15A EXISTING LOAD	ER ER
			O	0 0		
PROPOSED PANEL 'LPC' SCHEDULE A NEW TYPE WRITTEN PAI DIRECTORY AND INCLUDE A COPY THE MAINTENANCE MANUALS	NEL	ROPOSED P.	anel 'b' sc	HEDULE	AT THE COMPLETION OF THE PROVIDE A NEW TYPE WRITTE DIRECTORY AND INCLUDE A C THE MAINTENANCE MANUALS	N PANEL
ER   CORRIDOR 811 LIGHTS 15A   1   2   15A   ROOM 10 REC	ER	ROOM 16	LIGHTS 20A1		20A ROOM 17 LIGHTS	ER
ER RM 12 REC/HEATER STAIR 2ND FLR 15A 3 4 20A ROOM 57,58 REC	ER		LIGHTS 20A 3		20A ROOM 15 LIGHTS	ER
ER       ROOM 11 REC       15A       6       15A       UNIR. WR/EMER. LTG PACK         ER       ROOM 11 REC       15A       7       8       15A       OUTSIDE REC	ER ER		LIGHTS 20A 5 LIGHTS 15A 7		20A ROOM 13 LIGHTS 15A ROOM 17 REC	ER ER
ER ROOM 11 UNIT VENT UV-1_15A9 1015A_EXISTING LOAD	ER		LIGHTS 15A 9		15A ROOMS 13,14 REC	ER
ER     ROOM 12 UNIT VENT UV-3 $15A$ 11 $12$ $20A$ EXISTING LOAD	ER		IG LOAD 15A 11		15A CORRIDOR LIGHTS	ER
EROUTSIDE LIGHTS15A131420AROOM10,11LIGHTINGERCORRIDOR811LIGHTS151620AROOM12,57,58LIGHTING	ER ER		LIGHTS <u>15A</u> <u>13</u> IG LOAD <u>15A</u> <u>15</u>		15A EXISTING LOAD 15A EXISTING LOAD	ER ER
ER PHOTOCOPY MACHINE 15A 17 18 15A ROOM 10 FRIDGE REC	ER	ROOMS 16,	17 REC 15A17	18	<u>15A</u> ROOM 17 REC	ER
ER RM 10 REC/HEATER STAIR 2ND FLR 15A 19 20 15A ROOM 10 UNIT VENT UV-2	ER		CKS/REC 15A 19		<u>30A</u> ROOFTOP CU-21 6	NB
ER     ROOM 12 REC     15A     21     22     15A     ROOM 12 REC       ER     EXISTING LOAD     40A     23     24     15A     EXISTING LOAD	ER ER	ROOM 12 CONDENSING U	$\frac{2P}{23}$		<u>2P</u> <u>20A</u> ROOF MAINTENANCE REC	NB NB
ER252615A_ OLD STAIRS MAGNETIC LOCK	ER	ROOM 12 CONDENSING U		26	20A WASHROOM N32/STOR N33	REC NB
ER ROOM 11 CONDENSING UNIT C-1 30A 27 28 15A HAND DRYER & BRADLEY 57	ER				15A WASHROOM N32 DOOR C	
ER     2P     29     30     15A     EXISTING LOAD       ER     HAND DRYER & BRADLEY 58     15A     31     32     70A     DISTRIBUTION PANEL 'B'	ER ER		OUNTAIN <u>15A</u> <u>29</u> BBY REC <u>20A</u> <u>31</u>		20A WASHROOM N22/STOR N23 15A WASHROOM N22 DOOR 0	
ER DISTRIBUTION PANEL 'LPF' 60A 33 34	ER	WR N32 ELEC PLUMBING	DEVICES 15A 33		20A WASHROOM N32 HAND D	
$ ER $ $\underline{35}$ $36$ $\underline{37}$	ER	9 WR N32/STOR N	33 EF-8 15A 35		20A EXISTING LOAD	ER
ER     3P     37     38     20A     ROOF REC       NB     8     15A     39     40     15A     FIRE ALARM CONTROL PANEL	ER NB	WR N22 ELEC PLUMBING	<b>DEVICES</b> <u>15A</u> <u>37</u> 23 EF-8 <u>15A</u> <u>39</u>		20A EXISTING LOAD 15A EXISTING LOAD	ER ER
NB LEVEL 1B/2A LOBBY/CORR. REC 20A 41 42 20A WASHROOM N22 HAND DRYER	1	STOR. N33 LTG/WF	R 32 LTG <u>15A</u> 41		15A EXISTING LOAD	ER
DESIGNATION		SIGNATION				
<ul> <li>'ER' INDICATES EXISTING SERVICE AND BREAKER THAT SHOULD REMAIN UNTOUCHED</li> <li>'SP' INDICATES EXISTING BREAKER THAT MAY BECOME SPARE DUE TO DEMOLITION. (CONFIRM ON SITE 'RW' INDICATES EXISTING BREAKER THAT SHOULD BE REWIRED TO SERVICE DEVICES INDICATED ON PLA 'SB' INDICATES SPARE BREAKER TO BE USED FOR NEW SERVICE INDICATED.</li> <li>'NB' INDICATES NEW BREAKER AND WIRING TO SERVICE INDICATED. PROVIDE MOUNTING HARDWARE AS REQUIRED.</li> <li>'D' INDICATES EXISTING BREAKER TO BE REMOVED COMPLETE. PROVIDE FILLER PLATES AS REQUIRED.</li> </ul>	Ň	2' INDICATES EXISTING 6 V' INDICATES EXISTING 6 3' INDICATES SPARE BR 3' INDICATES NEW BREA QUIRED.	BREAKER THAT SHOULD I EAKER TO BE USED FOR KER AND WIRING TO SEF	DME SPARE DUE BE REWIRED TO R NEW SERVICE I RVICE INDICATED.	TO DEMOLITION. (CONFIRM ON SERVICE DEVICES INDICATED O	N PLÁN E AS
NOTES: THIS CONTRACTOR IS TO INVESTIGATE BREAKERS AND REVISE PANEL SCHEDULES TO SUIT					/ISE PANEL SCHEDULES TO SU	
RENOVATION, NOTING ANY BREAKERS THAT BECOME SPARE DUE TO DEMOLITION. THIS CONTRACTOR IS ALSO TO NOTIFY THE CONSULTANT OF ANY BREAKERS THAT ARE INDICATED BE DEMOLISHED OR REUSED, BUT WHICH ARE IN USE BY OTHER DEVICES OR SERVICES.	то	RENOVATION, NOT CONTRACTOR IS A	ING ANY BREAKERS THAT ALSO TO NOTIFY THE CO	T BECOME SPAR	YE FANLE SCHEDULES TO SEE E DUE TO DEMOLITION. THIS NY BREAKERS THAT ARE INDICA OTHER DEVICES OR SERVICES	ATED TO
BREAKERS TO MATCH EXISTING KAIC, ASSUME 22KAIC FOR BIDDING.		BREAKERS TO MA	TCH EXISTING KAIC, ASSI	UME 22kAIC FOR	BIDDING.	

### DISTRIBUTION RISER NOTES

ALL DISTRIBUTION EQUIPMENT ARE TO BE PROVIDED WITH WARNING LABELS CONFORMING TO THE ONTARIO ELECTRICAL SAFETY CODE RULE #2-306(1),(2)2 INSTALL GROUND WIRE TO SUIT THE ELECTRICAL SAFETY CODE IN ALL CONDUIT. ALL NOTED FEEDERS ARE FOR OVERHEAD RUNS OF CONDUIT. IF THE CONTRACTOR WISHES TO FEED UNDERGROUND, THE FEEDER MUST BE REVISED. THE CONTRACTOR IS TO PROPOSE REVISIONS TO THE CONSULTANT FOR PRE-APPROVAL. INDICATES EXISTING SPARE BREAKER TO FEED NEW SIMPLEX PUMP WITHIN ELEVATOR LOBBY ON BASEMENT LEVEL. REFER TO RENOVATION PLANS FOR ADDITIONAL INFORMATION. INDICATES ELEVATOR CONTROLLER DISCONNECT C/W TWO SETS OF AUXILIARY CONTACTS TO SUIT ELEVATOR SUPPLIER.

6 CONFIRM EXACT REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS PRIOR TO INSTALLATION.





Zone	Description	Alarm	Supervisory	Existing
11	SPACE			
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	ISIONS   date	PARTICULAR	
1	04/14/2022	COORDINATION SET	
2	09/08/2022	COORDINATION SET	
3	11/24/2022		be
4 5	01/13/2023	COORDINATION SET	al
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- 1. DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE ONTARIO BUILDING CODE LATEST EDITION AND NATIONAL BUILDING CODE LATEST EDITION
- 2. CONTRACTOR SHALL CHECK ALL DIMENSIONS ON WORKING DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY CHANGES, ALTERATIONS OR REVISIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DRAWINGS SHALL NOT BE SCALED.
- 3. THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT AND THERE ARE NO REPRESENTATIONS OF ANY KIND MADE BY THE DESIGN PROFESSIONAL TO ANY PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS NOT ENTERED INTO A CONTRACT.
- 4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR THE STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET, PILING OR STRUCTURES AFFECTED BY THIS WORK.
- 5. DESIGN LIVE LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
- 6. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - O.REG.213.
- 7. THESE DRAWINGS SHALL BE COORDINATED AND READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
- 8. WHERE THERE IS A CONFLICT IN THE SPECS AND/OR DRAWINGS THE MORE STRINGENT SHALL APPLY UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER.
- 9. ALL SPECIFICATIONS LISTED ARE TO LATEST EDITIONS IN FORCE AT TIME OF TENDERING.

### FOUNDATIONS

- 1. REFER TO THE FOLLOWING GEOTECHNICAL INVESTIGATION REPORT: PROJECT NUMBER: G22396 BY CHUNG & VANDER DOELEN ENGINEERING LTD. DATED MARCH 28, 2022.
- 2. REMOVE ALL TOPSOIL, ORGANIC AND LOOSE FILL MATERIAL FROM BUILDING AREA BEFORE STARTING CONSTRUCTION. 3. PROOF ROLL EXISTING FILL MATERIAL. REMOVE ANY LOOSE OR SOFTENED AREAS BENEATH SLAB ON GRADE BEFORE
- PLACING GRANULAR FILL. 4. ALL STRIP AND SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL WITH A MINIMUM SERVICEABILITY LIMIT STATE (SLS) BEARING CAPACITY OF 150 KPa AND A MINIMUM FACTORED ULTIMATE LIMIT STATE (ULS) BEARING CAPACITY OF 225 KPa. THIS IS TO BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO POURING
- 5. APPROVED ENGINEERED FILL UNDER FOOTINGS AND FLOOR SLABS SHALL BE COMPACTED IN 150mm LAYERS TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY
- 6. ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 1200mm WITH NATURALLY INSULATED (I.E. SNOW COVER) AND 1300mm BELOW EXPOSED SURFACE (I.E. ADJACENT SIDEWALKS, ETC.) BELOW FINISHED EXTERIOR GRADE TO PROTECT THESE FOOTINGS FROM FROST ACTION
- 7. ANY NECESSARY PRECAUTIONS SHALL BE TAKEN TO ENSURE THAT EXISTING FOOTINGS ARE NOT DISTURBED OR UNDERMINED IN ANY WAY DURING EXCAVATION.
- 8. SOIL CONDITIONS, REINFORCING STEEL AND FORMWORK SHALL BE INSPECTED BY THE ENGINEER BEFORE POURING CONCRETE. CONTRACTOR SHALL GIVE ENGINEER A MINIMUM 24 HOURS NOTICE TO CARRY OUT INSPECTION.
- 9. THE LINE OF SLOPE BETWEEN ADJACENT FOOTING OR EXCAVATIONS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10 UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.
- 10. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL SUPPORTING SLABS HAVE BEEN POURED, UNLESS BRACING DETAILS ARE SUBMITTED. WHERE POSSIBLE BACKFILL BOTH SIDES OF WALLS SIMULTANEOUSLY.

### CONCRETE

- 1. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO CSA STANDARD A23.3:19.
- 2. CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CSA STANDARD A23.1:19/A23.2:19.
- 3. FALSEWORK AND FORMWORK SHALL CONFORM TO CSA \$269.1-16.
- 4. CONCRETE EXPOSED TO THE WEATHER SHALL HAVE 5%~8% AIR ENTRAINMENT.
- 5. REINFORCEMENT SHALL BE DEFORMED BARS AND CONFORM TO CAN/CSA G30.18, GRADE 400MPa.
- 6. REINFORCING STEEL SHALL BE DETAILED, BENT, PLACED AND SUPPORTED TO CONFORM TO ACI STANDARDS 315 AND THE MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF ONTARIO.
- 7. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED.
- B. UNLESS NOTED OTHERWISE MINIMUM REINFORCING STEEL TENSION / COMPRESSION LAP LENGTHS TO BE: 10M 450 mm (18") / 450 mm (18")
- 15M 600 mm (24") / 450 mm (18")

- 20M 800 mm (32") / 600 mm (24")
- 25M 1200 mm (48") / 750 mm (30") 30M 1400 mm (56") / 900 mm (36")
- 9. ALL REINFORCING STEEL FABRICATION AND PLACEMENT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW
- **BEFORE FABRICATION**
- 10. CONCRETE COVER FOR REINFORCEMENT SHALL CONFORM TO CSA STANDARD A23.3:19 TABLE 17 AS FOLLOWS UNLESS
- OTHERWISE NOTED "C" CLASSES PERTAIN TO CHLORIDE EXPOSURE;

"F" CLASSES PERTAIN TO FREEZING AND	THAWING EXPOSURE WITHOUT C	CHLORIDE;	
"N" CLASS IS EXPOSED NEITHER CHLORID	es nor freezing and thawin	G;	
	EXPOSURE CLASS	EXPOSURE CLASS	EXPOSURE CLASS
FOOTINGS (CAST AGAINST &	Ν	F-1&F-2	C-1&C-3
PERMANENTLY EXPOSED TO EARTH)	75 mm	75 mm	75 mm
BEAMS, GIRDERS & COLUMNS	30 mm	40 mm	60 mm
SLABS	20 mm	40 mm	60 mm

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BEAMS, GIRDERS & COLUMNS	30 mm	40 mm	60 mm
SLABS	20 mm	40 mm	60 mm
WALLS	30 mm	40 mm	60 mm
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

- 11. CONCRETE:
- a. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25MPa MINIMUM AND CLASS OF EXPOSURE IS CLASS N UNLESS OTHERWISE SPECIFIED. DESIGN MIX SHALL BE SUBMITTED FOR PROJECT ENGINEER'S REVIEW PRIOR TO USE AT JOB SITE.
- b. CONCRETE FOR EXTERIOR SLABS ON GRADE, GARAGE FLOORS, PORCHES, STEPS, PAVEMENTS, SIDEWALKS, CURBS AND GUTTERS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 32MPa C/W 5~8% AIR ENTRAINMENT AND CLASS OF EXPOSURE IS CLASS C-2, MAXIMUM WATER-TO-CEMENTING MATERIALS RATIO IS 0.45.
- c. CONCRETE FOR INTERIOR SLABS ON GRADE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25MPa AND CLASS OF EXPOSURE IS CLASS N, MAXIMUM WATER-TO-CEMENTING MATERIALS RATIO IS 0.45. IF SUPERPLASTICIZER ("SUPER P") IS USED SLUMP BEFORE ADDING "SUPER P" IS 50mm~100mm, AFTER "SUPER P" IS 125mm~175mm. "SUPER P" TO BE INCLUDED IN CONTRACT PRICE.
- d. CONCRETE FOR EXTERIOR WALLS & COLUMNS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25MPa C/W 4~7% AIR ENTRAINMENT AND CLASS OF EXPOSURE IS CLASS F-2, MAXIMUM WATER-TO-CEMENTING MATERIALS RATIO IS 0.55.
- e. CONCRETE FOR FOOTINGS, INTERIOR WALLS & COLUMNS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25MPa AND CLASS OF EXPOSURE IS CLASS N.
- f. STRUCTURALLY REINFORCED CONCRETE EXPOSED TO CHLORIDES WITH OR WITHOUT FREEZING AND THAWING CONDITIONS SHALL HAVE A 56 DAY COMPRESSIVE STRENGTH OF 35MPa C/W 5~8% AIR ENTRAINMENT AND CLASS OF EXPOSURE IS CLASS C-1, MAXIMUM WATER-TO-CEMENTING MATERIALS RATIO IS 0.40. FOR EXAMPLE PARKING DECKS AND RAMPS.
- 12. SLUMP OF CONCRETE TO BE 50mm~100mm OR AS OTHERWISE SPECIFIED. CONCRETE (WITHOUT SUPERPLASTICIZER "SUPER P") WITH 110mm SLUMP OR MORE IS TO BE REJECTED.
- 13. SPACING OF CONTROL JOINTS IN CONCRETE SLABS SHALL NOT EXCEED 4.5m (15'-0") O.C.
- 14. ALL CONCRETE FORMS TO BE WET THOROUGHLY BEFORE POURING CONCRETE.
- 15. DO NOT ADD WATER TO CONCRETE ON SITE UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
- 16. SLOPE ALL FLOORS AS SHOWN ON ARCHITECTURAL OR MECHANICAL DRAWINGS.
- 17. CONSTRUCTION JOINTS FOR FOUNDATION WALLS ARE BASED ON VERTICAL JOINTS AT A MAXIMUM SPACING OF 10m (32'-10"). CONSTRUCTION JOINTS IN FOUNDATION WALLS SHALL MATCH CONTROL JOINTS IN SLABS WHERE FOUNDATION WALLS ARE NOT SEPARATED FROM SLABS. CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION. GENERALLY, JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID-SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS.
- 18. INSTALL STANDARD ADJUSTABLE INSERT AND ALL OTHER CAST-IN INSERT AS REQUIRED BY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- 19. PROVIDE SLEEVES IN WALLS FOR MECHANICAL PIPING.

- THAN AS SHOWN ON THE TYPICAL DETAILS.
- 21. ELECTRICAL CONDUIT SHALL NOT PASS THROUGH A COLUMN, SHALL NOT BE LARGER THAN ONE-THIRD THE SLAB

- 22. PROVIDE OPENINGS OR DEPRESSIONS IN SLABS AS REQUIRED BY OTHER TRADES.
- 23. OPENINGS AND DRIVEN FASTENERS REQUIRED IN THE CONCRETE AFTER THE CONCRETE IS PLACED IT SHALL BE APPROVED BY THE ENGINEER BEFORE PROCEEDING.
- 24. WATER CURING OF CONCRETE SLAB ON GRADE IS REQUIRED, MINIMUM 7 DAYS.
- 25. NON-SHRINK GROUT SHALL BE AN APPROVED PREMIXED PROPRIETARY PRODUCT.
- 26. DRY-PACKED GROUT SHALL BE 1 PART PORTLAND CEMENT TO 1.5 PARTS OF SAND TO 2 PARTS OF 9mm PEA GRAVEL
- 27. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FINISH TO EXPOSED CONCRETE. FLOOR
- 28. ALL HONEYCOMBING SHALL BE CUT OUT AND FILLED TO THE SATISFACTION OF THE ENGINEER.

TO BE APPLIED

CONSTRUCTION JOINT

CONTROL JOINT

EXPANSION JOINT

WALLS.

SHALL NOT EXCEED 4.5m (15'-0") O.C.

AT SLAB EDGES DURING CONSTRUCTION.

SLAB ON GRADE (INTERIOR)

INDICATED ON DRAWINGS.

GENERAL SLAB NOTES

REINFORCING STEEL

REINFORCING CHAIRS

OPENING AND SLEEVES

PRIOR TO CORING

CONCRETE PADS

CONCRETE CURBS

CONSULTANTS FOR REVIEW.

CHAMFERS AND REGLETS

STRUCTURAL DRAWINGS.

MISCELLANEOUS CONCRETE

FOLLOWING REQUIREMENTS FOR SPLICING NOTED:

PROTECTED WITH AN ACCEPTABLE COATING.

DRAINS SHALL BE SET PRIOR TO CONCRETE PLACING.

THE TYPICAL DETAILS UNLESS NOTED ON THE PLAN.

MEMBER WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

JOINTS

- CURING/SEALING COMPOUND, CONFORMING TO ASTM C309, AS SPECIFIED TO ALL FLOOR SLABS UNLESS A TOPPING IS

- 29. APPLY A HARDENER AS SPECIFIED TO ALL CONCRETE FLOOR SLABS THAT ARE TO REMAIN EXPOSED AS NOTED. APPLY

THICKNESS OR GRADE BEAM IN WHICH IT IS EMBEDDED, SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A FOUNDATION WALL.

WITH ONLY SUFFICIENT WATER TO DAMPEN THE MIXTURE. COMPRESSIVE STRENGTH SHALL BE 50MPa AT 28 DAYS.

FINISHES SHALL CONFORM TO CSA STANDARD A23.1:19 CLASS A FINISH UNLESS NOTED.

1. SUBMIT PROPOSED JOINT LOCATION TO THE ENGINEER FOR APPROVAL UNLESS SHOWN ON DRAWINGS.

2. DO NOT PLACE SLABS OR WALLS IN ONE CONTINUOUS POUR IN LENGTHS EXCEEDING 30.0m (100'-0"). 3. LOCATE SLAB CONSTRUCTIONS JOINTS AT HIGH POINTS.

4. UNLESS NOTED, ALL WALLS AND COLUMNS SHALL BE POURED IN ONE LIFT (FLOOR TO FLOOR). FOR WALLS AND COLUMNS OVER 3.7m, SUBMIT SHOP DRAWINGS FOR FORMWORK AND PLACING.

CONTROL JOINTS IN PERIMETER FOUNDATION WALLS BELOW GRADE SHALL BE @ 9.0m (30'-0") MAXIMUM UNLESS SHOWN OTHERWISE ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.

REFER TO SLAB NOTES AND DETAILS FOR SAWCUTS. WHERE NOT SHOWN, CONTROL JOINTS (SAWCUTS) IN CONCRETE SLABS

FILL JOINTS IN SLABS WITH SPECIFIED BACKING AND JOINT FILLER AS SOON AS POSSIBLE OR PROTECT JOINTS FROM DAMAGE

1. SLAB ON GRADE TO BE PLACED ON COMPACTED GRANULAR MATERIAL. COMPACTION TESTS ON FILL MATERIAL TO BE CARRIED OUT PRIOR TO SLAB ON GRADE PLACEMENT.

2. REINFORCEMENT TO SLAB ON GRADE MUST BE SUPPORTED BY CHAIRS AT MID-DEPTH UNLESS OTHERWISE LEVEL

3. PROVIDE SAWCUTS WITHIN 24 HOURS OF FINISHING AT LOCATIONS SHOWN ON DRAWINGS. SAWCUT DEPTH TO BE 1/4 OF SLAB THICKNESS. SAWCUT AS CLOSE TO COLUMNS OR WALLS AS PRACTICAL. FILL SAWCUTS WITH NON-METALLIC CONTROL JOINT FILLER (RIGID JOINT SEALANTS SIKA LOADFLEX OR SEMI-RIGID EPOXY JOINT FILLER REZI-WELD FLEX BY W. R. MEADOWS OR ALTERNATE MATERIALS APPROVED EQUAL).

4. PROVIDE 10mm ASPHALT IMPREGNATED FIBRE BOARD AND CAULKING AROUND ALL COLUMNS AND ALONG ALL 5. MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSION AND CHANGES IN ELEVATIONS.

6. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATIONS OF ALL FINISHES AND DEPRESSIONS.

7. PROVIDE COLD WEATHER PROTECTION TO PREVENT SLAB ON GRADE FROM HEAVING AND FROZEN.

1. ENSURE MINIMUM 1-15M TOP AND 1-15M BOTTOM CONTINUOUS AT ALL SLAB EDGES BY ADJUSTING BAR LENGTH OR PROVIDING ADDITIONAL TOP & BOTTOM EDGE BARS AS REQUIRED.

2. LAP TEMPERATURE REINFORCEMENT (CLASS 'B' LAP) BUT NOT LESS THAN 300 mm. STAGGER LAPS OR LAP AT SUPPORTS.

1. REINFORCEMENT STEEL DETAILING TO BE IN ACCORDING WITH REINFORCING STEEL INSTITUTE OF ONTARIO (RSIO) MANUAL OF STANDARD PRACTICE AND WITH THE LATEST EDITION OF CSA CAN3-A23.1:19 AND CAN3 WITH THE

SPLICES: ALL REINFORCING STEEL LAP SPLICES SHALL CONFORM TO LATEST CSA A23.3:19.

COLUMNS: COMPRESSION SPLICES UNLESS NOTED OTHERWISE. WALLS & ALL OTHERS: CLASS 'B' TENSION SPLICES UNLESS NOTED OTHERWISE. INCREASE HORIZONTAL SPLICE LENGTHS BY 1.3 TIMES WHERE MORE THAN 300mm OF FRESH CONCRETE IS CAST BELOW SPLICE.

. PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1:19 AND A23.3:19. CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR

2. CHAIRS SHALL BE SPACED AT 1200mm O.C. MAXIMUM. PROVIDE CONTINUOUS CHAIRS WHERE POSSIBLE.

1. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND TO SHOP DRAWINGS OF ALL TRADES FOR EXACT LOCATION AND EXTENT OF OPENINGS AND SLEEVES REQUIRED BUT NOT SHOWN ON THE STRUCTURAL

2. OBTAIN THE APPROVAL OF THE STRUCTURAL ENGINEER FOR OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT CORE DRILL, SAWCUT OR OTHERWISE PRODUCE OPENINGS OF ANY SIZE, IN ANY STRUCTURAL

3. ALL REQUIRED OPENINGS SHALL BE SLEEVED OR FORMED PRIOR TO PLACING CONCRETE. CORING OR SAW CUTTING FOR OPENINGS AFTER CASTING SHALL NOT BE PERMITTED AS AN ALTERNATE METHOD OF PROVIDING OPENINGS. ALL

4. CAST IN SLEEVES SHALL GENERALLY NOT BE PERMITTED WITHIN 600mm OF A COLUMN FACE UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. CORED OPENINGS SHALL GENERALLY NOT BE PERMITTED WITHIN 10 TIMES THE SLAB (PLUS DROP PANEL) THICKNESS FROM THE FACE OF THE COLUMNS OR WALLS, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER, AND WILL REQUIRE VERIFICATION OF THE REINFORCING BAR LOCATION

5. FOR OPENINGS GREATER THAN 400mmx400mm (16"x16") REINFORCE AROUND THE OPENING IN ACCORDANCE WITH

PROVIDE CAST IN PLACE EQUIPMENT BASES FOR MECHANICAL AND ELECTRICAL HARDWARE. CONTRACTOR TO COORDINATE EXTENT, LOCATION AND DIMENSION FROM MECHANICAL/ELECTRICAL SHOP DRAWINGS. SUBMIT LAYOUT DRAWING TO

PROVIDE CONCRETE CURBING AS SHOWN ON THE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.

PROVIDE CHAMFERS, REGLETS, REVETS, REVEALS, RECESSES AND THE LIKE AS SHOWN ON THE ARCHITECTURAL AND/OR

### MASONRY

- 1. ALL MASONRY WALLS SHALL BE REINFORCED WITH DUR-O-WALL LADDER DESIGN (OR APPROVED EQUAL) HOT DIPPED GALVANIZED CONTINUOUS REINFORCEMENT AT EVERY SECOND COURSE 400mm. REINFORCEMENT SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS 200mm APART, IMMEDIATELY ABOVE LINTELS AND BELOW SILLS. REINFORCEMENT IN THE SECOND BED JOINT ABOVE LINTELS AND BELOW SILLS SHALL EXTEND 600mm BEYOND THE JAMB. ALL OTHER REINFORCEMENT SHALL BE CONTINUOUS AND SIDE RODS SHALL BE LAPPED AT LEAST 150mm AT SPLICES. REINFORCEMENT SHALL BE PLACED AS TO ASSUME 16mm MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12mm COVER ON THE INTERIOR FACE OF WALL. (SEE CONCRETE BLOCK WALL REINFORCING SCHEDULE).
- 2. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR ALL LOAD BEARING WALLS. TYPE N MORTAR SHALL BE USED FOR NON-LOAD BEARING PARTITIONS AND BRICK OR BLOCK VENEER.

TYPE S: MINIMUM 28 DAY STRENGTH = 8.5MPa, MAXIMUM 28 DAY STRENGTH = 12.5MPa TYPE N: MINIMUM 28 DAY STRENGTH = 3.5MPa, MAXIMUM 28 DAY STRENGTH = 7.5MPa MORTAR MIX PROPORTIONS: MIX ACCORDING TO CURRENT CSA STANDARD A179-14. MORTAR MIX SHALL BE TESTED FOR STRENGTH AND APPROVED BY THE ENGINEER PRIOR TO USE ON THE JOB. FOR EXTERIOR BRICK VENEER ONLY USE PORTLAND CEMENT LIME MORTAR TYPE N - 1 PART PORTLAND, PORTLAND-LIMESTONE, OR BLENDED CEMENT: 1 PART HYDRATED LIME OR LIME PUTTY: 6 PARTS SAND MEASURED IN

FOR EXTERIOR <u>BLOCK</u> VENEER USE REGULAR TYPE N.

DAMP, LOOSE STATE (1:1:6 BY VOLUME) IN ACCORDANCE WITH TABLE 3.

4. ALL MASONRY WALL TO BE CONSTRUCTED WITH FULL MORTAR JOINTS.

3. MORTAR COMPRESSIVE STRENGTHS: (JOB PREPARED MIX)

- 5. SPACING OF MASONRY CONTROL JOINTS IN ALL WALLS SHALL NOT EXCEED 6.0m (20'-0") O.C. 6. MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF LOAD BEARING CONCRETE BLOCK MASONRY UNITS SHALL BE: 15MPa FOR HOLLOW UNITS, BASED ON NET AREA.
- ALL MASONRY UNDER CONCENTRATED LOADS SHALL HAVE VOIDS FILLED WITH 20MPa GROUT FOR WIDTH AND DEPTH EQUAL TO 3 TIMES THE LENGTH OF BEARING, MINIMUM 600mm WIDE x 400mm DEEF
- 8. FOR MASONRY OPENINGS NOT SHOWN ON DRAWINGS PROVIDE 1L-89x89x6.4 FOR EACH 100mm THICKNESS OF WALL OPENINGS UP TO 600mm AND 1L-89x89x9.5 FOR OPENINGS UP TO 1200mm, IF OPENING IS WIDER THAN 1200mm NOTIFY ENGINEER FOR LINTEL SIZE VERIFICATION PRIOR TO FABRICATION AND INSTALLATION.
- 9. ALL MASONRY WALL SHALL BE PROPERLY SHORED DURING CONSTRUCTION UNTIL STRUCTURAL STEEL AND SLABS ARE IN 10. PROVIDE BEARING PLATES FOR JOISTS SUPPORTED BY MASONRY WALLS. ALL BEARING PLATES SHALL BE DESIGNED
- ACCORDING TO THE REQUIREMENTS OF CSA \$16.1. THEY SHALL BE ANCHORED WITH MINIMUM 1-20mm DIAMETER x450mm HOOKED RODS WELDED TO PLATES AND EMBEDDED INTO GROUT FILL WITH A MINIMUM STRENGTH OF 20MPa. ALLOWABLE BEARING STRESS ON MASONRY FOR DESIGN OF BEARING PLATES SHALL NOT EXCEED 175PSI (1.2MPa).
- 11. TESTING: MORTAR AND GROUT SHALL BE TESTED IN ACCORDANCE WITH CSA STANDARD A179-14. CONCRETE MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH CSA STANDARD A165 SERIES-14.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 WITH ONE SHOP COAT AND FIELD TOUCH-UP OF ZINC CHROMATE PRIMER, CONFORMING TO CISC/CPMA STANDARD 1-73A OR 2-75. AND IT SHALL BE PAINTED TO OWNERS **SPECIFICATION** ALL W-SHAPES & S-SHAPES SECTIONS SHALL CONFORM TO ASTM A992 & ASTM A572 GRADE 50 Fy=345MPa, ALL C-SHAPES SECTIONS & ANGLES SHALL CONFORM TO G40.21-350W Fy=350MPa ALL HSS HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO G40.21-350W CLASS C Fy=350MPa,
- 2. FABRICATION AND ERECTION SHALL CONFORM TO LATEST EDITION OF CSA STANDARD \$16:19. NO SPLICING WILL BE PERMITTED UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
- 3. DESIGN AND INSTALLATION OF ALL BRIDGING SHALL BE IN ACCORDANCE WITH LATEST EDITION OF CSA STANDARD \$16:19. COMBINED DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED AT THE ENDS OF BRIDGING LINES AS REQUIRED. ENDS OF BRIDGING LINES SHALL BE ANCHORED TO STEEL, MASONRY OR OTHERWISE SHOWN.
- 4. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE ANY CONSTRUCTION LOADS ARE PLACED ON JOISTS. 5. ALL FIELD BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS. ALL BOLTS SHALL BE
- 6. ALL BEAM-TO-BEAM CONNECTIONS AND BEAM-TO-COLUMN CONNECTIONS SHALL HAVE DOUBLE ANGLE CONNECTIONS UNLESS NOTED OTHERWISE AND BE IN ACCORDANCE TO CSA STANDARD CONNECTIONS.
- 7. WELD ALL BEAMS/JOISTS TO BEARING PLATES OR SUPPORTING MEMBERS WITH MINIMUM 50mm x5mm FILLET WELDS ON BOTH SIDES OF MEMBER, UNLESS NOTED OTHERWISE.
- 8. FOR JOIST LOADS REFER TO PLAN.
- 9. JOISTS SHALL BE CAMBERED FOR DEAD LOAD.

INSTALLED IN A TURN-OF-NUT METHOD U.N.O.

10. ALL JOISTS AT COLUMNS SHALL BE TIE JOISTS UNLESS NOTED OTHERWISE

ALL OTHERS (PLATES, RODS) SHALL CONFORM TO G40.21-300W Fy=300MPa.

- 11. EXTEND BOTTOM CHORDS OF ALL OPEN WEB STEEL JOISTS IN AREAS DESIGNATED FOR SUSPENDED CEILINGS, OR AS REQUIRED TO BRACE MASONRY WALLS OR OTHER STEEL FRAMING MEMBER.
- 12. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITION OF CSA STANDARD W59-18 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF LATEST EDITION OF CSA STANDARD W47.1:19, DIVISION 1 OR DIVISION 2.1.
- 13. ALL ROOF OPENINGS TO BE REINFORCED BY CONTINUOUS C150x12 (OR C130x10 FOR OPENINGS UP TO 1200mm) CHANNEL FRAMES AT PERIMETER OF OPENINGS UNLESS NOTED OTHERWISE.
- 14. SUBMIT SHOP DRAWINGS, INCLUDING CONNECTIONS DETAILS AND LOCATIONS OF ALL SPLICES FOR REVIEW BEFORE PROCEEDING WITH FABRICATION. ALL SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEERING LICENSED IN THE PROVINCE OF ONTARIO.
- 15. SHOP DRAWINGS OF JOIST DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW BEFORE FABRICATION. JOISTS TO BE DESIGNED FOR THE LOADS AND WIND UPLIFTING AS SPECIFIED ON DRAWING AND/OR BUILDING CODE. JOIST DESIGN AND DETAILS SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN ONTARIO. JOIST DESIGN CALCULATIONS SHALL BE SUBMITTED FOR RECORD PURPOSES.
- 16. ALL CONNECTIONS SHALL BE DESIGNED FOR MIN. 50% OF THE FULL SHEAR CAPACITY OF THE MEMBER UNLESS MEMBER CONNECTION LOADS ARE SHOWN ON THE DRAWINGS.
- 17. STEEL BEAMS AND LINTELS SHALL HAVE 200mm MINIMUM END BEARING ON MASONRY AND 65mm MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.
- 18. ALL BEAMS CANTILEVERED OR CONTINUOUS OVER A COLUMN OR OTHER SUPPORT SHALL HAVE A MINIMUM OF 2-10mm STIFFENERS EACH SIDE FULL HEIGHT & FULL WIDTH UNLESS OTHERWISE NOTED.
- 19. UNDERSIDE OF COLUMN BASE PLATES AND BEAM BEARING PLATES SHALL BE GROUTED WITH 40mm NON-SHRINK GROUT.
- 20. ALL COLUMNS BUILT INTO MASONRY WALLS SHALL HAVE ADJUSTABLE ANCHORS @ 400mm O.C.
- 21. TOP OF COLUMNS WHICH ARE NOT BRACED BY JOISTS SHALL BE BRACED DIAGONALLY TO THE ROOF OR FLOOR BY A MINIMUM OF 4-76x76x6.4 ANGLES. BRACING SHALL BE BETWEEN TOP OF COLUMN AND TOP CHORD OF JOISTS OR TOP FLANGE OF BEAM.
- 22. WHERE STRUCTURAL STEEL MEMBERS ARE CALLED FOR ON ARCHITECTURAL DRAWINGS BUT NOT ON STRUCTURAL DRAWINGS USE 6.4mm THICKNESS MIN. FOR ANGLES AND PLATES AND MIN. BEAM WEIGHT FOR TENDERING PURPOSES.
- 23. ROOF DECK SHALL BE 38x1.22, 18 GAUGE, CANAM GROUP INC. P-3615 (OR APPROVED EQUAL) MINIMUM 3 SPANS CONTINUOUS. WELD DECK TO SUPPORTING STEEL WITH 19mm DIAMETER PUDDLE WELDS @300mm O.C. MAXIMUM. MARGINAL (PERIMETER) WELDS @150mm O.C. MAXIMUM. BUTTON PUNCH SIDE LAPS @600mm O.C. ROOF DECK IS DESIGNED AS A DIAPHRAGM.
- 24. FLOOR DECK SHALL BE 76x0.76, 22 GAUGE, CANAM GROUP INC. P-2432 COMPOSITE (OR APPROVED EQUAL) MINIMUM 3 SPANS CONTINUOUS. WELD DECK TO SUPPORTING STEEL WITH 19mm DIAMETER PUDDLE WELDS @300mm O.C. MAXIMUM. MARGINAL (PERIMETER) WELDS @150mm O.C. MAXIMUM. BUTTON PUNCH SIDE LAPS @600mm O.C.

INSPECTIONS AND TESTING

THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

SOILS ALL TESTING AND INSPECTION (COMPACTION, BEARING CAPACITY ETC.) AS PER THE REQUIREMENTS OF THE GEOTECHNICAL

### ENGINEER. <u>CONCRETE</u>

CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2 LATEST EDITION AND THE SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED AND TEST RESULTS FOR ALL ITEMS POURED.

TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSE WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

APPROVAL OF CONCRETE

TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO

PROFESSIONAL ENGINEER IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE

CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND COMPLIANCE WITH OBC REQUIREMENTS. THIS REVIEW

MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE OR DEFECTS MAY BE DEEMED REJECTABLE.

CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE

STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

WAS USED FOR THE TENDER DRAWINGS. DETAILS MUST BE OF A SCALE THAT IS LEGIBLE.

		PLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE COF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE DRAWINGS AND COMPLIANCE WITH OBC REQUIREMENTS. ALLOW 10 WORKING DAYS FOR SHOP /IEW.
6.		ICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.
7.	DETAILS, EXTER	IG SUBMITTALS SHALL ALSO INCLUDE CLADDING CONNECTION DETAILS, PRECAST AND STEEL STAIR RIOR GRATING DETAILS AND SAFETY GUARDS, WHICH SHALL SIGNED AND STAMPED BY A PROFESSIONAL ACCORDANCE WITH THE CURRENT ONTARIO BUILDING CODE.
INF	ORCED CONC	
•	SHOW WALLS	 EVIEW REINFORCEMENT PLACING DRAWINGS AND BAR LISTS FOR EVERY PORTION OF THE STRUCTURE. IN FULL ELEVATION. SHOW TOP STEEL AND BOTTOM STEEL FOR SLABS ON SEPARATE PLANS WITH STEEL CALLED UP DIRECTLY ON PLAN.
2.	SPECIAL REQU	alls of design and construction of forms and falsework, shoring and re-shoring and any irements for stripping of formwork. All such design sheets shall be prepared and stamped onal engineer.
3.	SUBMIT FOR RI WORK.	EVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 10 WORKING DAYS PRIOR TO START OF
ł.		EVIEW DRAWINGS OF ALL PROPOSED CONSTRUCTION JOINTS LOCATIONS, AND LAYOUT DRAWINGS OF DLATION AND HOUSEKEEPING PADS.
	REGULARLY SU	IBMIT REPORTS OF ALL CONCRETE TESTING AS SOON AFTER TESTING IS PERFORMED AS POSSIBLE
		<u>IND STEEL DECK</u> HOP DRAWINGS: DECKING PLAN, PROFILE, DIMENSIONS, CORE THICKNESS, CONNECTIONS TO SUPPORTS,
	REQUIRED BEA	RINGS, CLOSURES AND ACCESSORIES. EVIEW 3 PRINTS AND 1 SEPIA OF ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL ELEMENTS. ALL MOMEN S AND STEEL DECK SHALL BE DESIGNED AND DRAWINGS SHALL BE STAMPED, SIGNED AND DATED BY A
	PROFESSIONA	L ENGINEER.
		IG SUBMITTALS SHALL INCLUDE STEEL BEAM, COLUMN CONNECTIONS, STEEL DECK.
	IT FOR REVIEW	THE PROPOSED INSERT LOADS TRANSMITTED BY PREFABRICATED EXTERIOR CLADDING SYSTEM TO THE
		- CTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS WHICH SHOW AS-BUILT DETAILS OF ALL ASPECTS FOR REVIEW DURING CONSTRUCTION AND FOR SUBMISSION AT THE END OF THE PROJECT.
EI	EL STUDS LI	GHTWEIGHT, COLD-FORMED GALVANIZED STRUCTURAL STEEL STUDS
•	FABRICATION DRAWINGS AF	IGS FOR STRUCTURAL STEEL STUDS SHALL BE SUBMITTED TO PROJECT ENGINEER FOR REVIEW PRIOR TO IN ACCORDANCE WITH DETAILS PROVIDED ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS. RE TO INCLUDE JAMB (POST), LINTEL (HEADER & SILL), BRIDGING DETAILS, CONNECTIONS AND DEFLECTION INGS ARE TO BE STAMPED BY AN ENGINEER REGISTERED IN PROVINCE OF ONTARIO.
2.		TH OF STUD IS AS DETAILED ON THE ARCHITECTURAL DRAWINGS.
•		CKNESS OF LOAD BEARING STUD SHALL NOT BE LESS THAN 0.8788mm, 0.0346", 33mil 20GAUGE, 50ksi OR 1451", 43mil 18GAUGE, 33ksi.
•	STEEL STUD DE MEMBERS.	SIGN & CONSTRUCTION SHALL CONFORM TO CSA STANDARD \$136-16 COLD FORMED STEEL STRUCTURAL
	ALL EXTERIOR	stud walls are load bearing stud walls unless noted otherwise. Maximum lateral deflection
		CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS.
- •	FOR MASONR	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS.
	FOR MASONR	ceed l/360 for exterior insulation and finish systems (EIFS) or other cladding systems & L/420 y veneer except as noted on drawings.
ene ASC	FOR MASONR	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING CTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. EQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS
ENE ASC	FOR MASONR PORARY RAL CONTRAC DNRY WALLS A BRACING IS RI AND/OR JOIS SHORING IS RI SHORING & BI	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING CTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. EQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS IS. EQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. RACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY CONTRACTOR'S ENGINEER.
ENE ASC -	FOR MASONR PORARY RAL CONTRAC DNRY WALLS A BRACING IS RI AND/OR JOIS SHORING IS RI SHORING & BI	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING CTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. EQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS IS. EQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE.
ENE ASC - 2. 3. 4.	FOR MASONR PORARY RAL CONTRAC DNRY WALLS A BRACING IS RI AND/OR JOIS SHORING IS RI SHORING & BI SHORING & BI SHORING SHO	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING CTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. EQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS IS. EQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. RACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY CONTRACTOR'S ENGINEER.
ENE ASC 3. 4. TC ES NTA ATE DIN OV REA ENE	FOR MASONR PORARY RAL CONTRAC DNRY WALLS A BRACING IS RI AND/OR JOIS SHORING IS RI SHORING & BI SHORING & BI SHORING SHO ISPENDED FLC RIO BUILDING RIALS BY USE C DO NOT PRODE LOADS OF 50 EMENT OF COI TER THAN THE RAL CONTRAC	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING CTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. EQUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS IS. EQUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. RACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY CONTRACTOR'S ENGINEER. OP DRAWINGS SHALL BE SUBMITTED WITH ENGINEER'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION.
	FOR MASONR PORARY RAL CONTRAC DNRY WALLS A BRACING IS RI AND/OR JOIS SHORING IS RI SHORING & BI SHORING & BI SHORING SHO ISPENDED FLC RIO BUILDING RIALS BY USE C DO NOT PRODE LOADS OF 50 EMENT OF COI TER THAN THE RAL CONTRAC	CEED L/360 FOR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) OR OTHER CLADDING SYSTEMS & L/420 Y VENEER EXCEPT AS NOTED ON DRAWINGS. SHORING & BRACING STOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING & BRACING FOR NEW OR EXISTING ND ALL OTHER STRUCTURAL ELEMENTS IN ACCORDANCE WITH RECOGNIZED CONSTRUCTION PRACTICE. GUIRED UNTIL FLOOR SLAB AND/OR ROOF DECK ARE IN PLACE AND PROPERLY SECURED TO BEAMS IS. GUIRED UNTIL PROPOSED STRUCTURE IS PROPERLY IN PLACE. RACING SHALL BE DESIGNED, REVIEWED AND APPROVED BY CONTRACTOR'S ENGINEER. P DRAWINGS SHALL BE SUBMITTED WITH ENGINEER'S STAMP FOR OUR REVIEW PRIOR TO CONSTRUCTION. D MOVEMENT OF CONSTRUCTION MATERIAL COR SYSTEM HAS BEEN DESIGNED FOR THE LOADS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE CODE FOR THE INTENDED USE AND OCCUPANCY. THE STORAGE AND MOVEMENT OF CONSTRUCTION F MOTORIZED OR HAND OPERATED DEVICES ON THE STORAGE AND MOVEMENT OF CONSTRUCTION F MOTORIZED OR HAND OPERATED DEVICES ON THE STOPAGE AND MOVEMENT OF CONSTRUCTION SIGN (2.2XN) ON A LOADING AREA OF 4"X4" (100mmx100mm) WHICHEVER IS LESS. STORAGE AND USE (0.2XN) ON A LOADING AREA OF 4"X4" (100mmx100mm) WHICHEVER IS LESS. STORAGE AND STOR THE RESPONSIBIL TO A PHPOVED BY THE DECK MANUFACTURE. IT IS THE RESPONSIBILITY OF THE LOADS BE REVIEWED AND APPROVED BY THE DECK MANUFACTURE. IS THE STORAGE AND STORUCTION MATERIALS, SUCH AS FULL PALLETS OF MASONRY UNITS, WHICH MAY PRODUCE LOADS ABOVE MUST BE REVIEWED AND APPROVED BY THE DECK MANUFACTURE. IT IS THE RESPONSIBILITY OF THE LOADS BE REVIEWED AND APPROVED BY THE DECK MANUFACTURE. IT IS THE RESPONSIBLITY OF THE LOADS BE REVIEWED AND APPROVED BY THE DECK MANUFACTURE. IT STRUCTURAL COMPONENTS
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### STRUCTURAL DESIGN INFORMATION

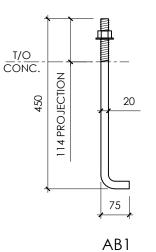
BUILDING LOCATION: KITCHENER, ONTARIO, CANADA. SITE COORDINATES: 43.4548135 NORTH, 80.5080885 WEST BUILDING IMPORTANCE CATEGORY: HIGH

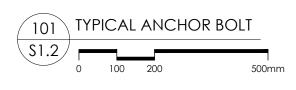
- EARTHQUAKE LOAD AND EFFECTS: EARTHQUAKE LOAD AND EFFECTS HAVE BEEN TAKEN INTO CONSIDERATION FOR BOTH BUILDING AND FOUNDATION DESIGN IN ACCORDANCE WITH SECTION 4.1.8 IN CURRENT ONTARIO BUILDING CODE. SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE: SITE CLASS C; EARTHQUAKE IMPORTANCE FACTOR OF THE STRUCTURE  $I_{E}$ =1.3; Sa(0.2)=0.122, Sa(0.5)=0.077, Sa(1.0)=0.045, Sa(2.0)=0.023, Sa(5.0)=0.0056, Sa(10.0)=0.0024, PGA=0.074, PGA=0.06; ACCELERATION-BASED SITE COEFFICIENT Fa=F(0.2)=1.0; VELOCITY-BASED SITE COEFFICIENT Fv=F(1.0)=1.0; SEISMIC HAZARD INDEX I<sub>E</sub>FaSa(0.2)=1.3x1.0x0.122=0.1586 < 0.35
- CONVENTIONAL CONSTRUCTION OF MASONRY SHEAR WALLS DUCTILITY-RELATED FORCE MODIFICATION FACTOR Rd=1.5, OVERSTRENGTH-RELATED FORCE MODIFICATION FACTOR Ro=1.5;

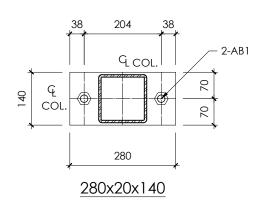
LOADS DUE TO SNOW AND RAIN: 1-IN-50-YEAR GROUND SNOW LOAD Ss=2.0KPa, ASSOCIATED RAIN LOAD Sr=0.4KPa; IMPORTANCE FACTOR FOR SNOW LOAD IS=1.15 (ULS) IS=0.9 (SLS);

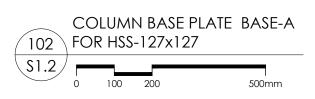
WIND LOAD: HOURLY WIND PRESSURES: 0.29KPa 1-IN-10-YEAR & 0.37KPa 1-IN-50-YEAR;

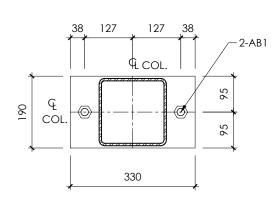
- IMPORTANCE FACTOR FOR WIND LOAD IW=1.15 (ULS) IW=0.75 (SLS); EXPOSURE FACTOR BASED ON <u>ROUGH</u> TERRAIN, Ce=0.7(h/12)<sup>0.3</sup> BUT NOT LESS THAN 0.7; INTERNAL PRESSURE COEFFICIENT Cpi=-0.45 to 0.3 USING CATEGORY 2;
- WIND UPLIFT FOR METAL DECK DESIGN: 1.4(WIND)-0.9(DEAD LOAD) SPECIFIED WIND UPLIFTING PRESSURE OVER ROOF
- AT ROOF OVERHANG 1.787KPa; REMAINING AREA 0.625KPa;
- WIND LOADING ON WALL SYSTEMS (STEEL STUDS, CURTAIN WALL): IN ADDITION TO SEISMIC PROVISIONS OF ONTARIO BUILDING CODE IT IS THE RESPONSIBILITY OF GENERAL
- CONTRACTOR AND CONTRACTOR'S ENGINEER TO ENSURE WALL SYSTEM HAS BEEN DESIGNED TO RESIST WIND LOADS IN ACCORDANCE WITH CURRENT ONTARIO BUILDING CODE.











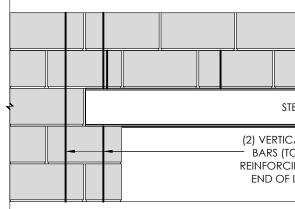
190x20x330 COLUMN BASE PLATE BASE-B 103 FOR HSS-178x178

### MASONRY BLOCK WALL REINFORCING SCHEDULE

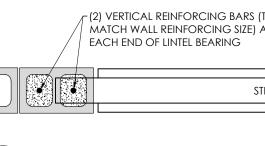
WALL TYPE	HORIZONTAL	VERTICAL
90 BLOCK	STANDARD WEIGHT LADDER REINFORCEMENT @ 400mm O/C WIRE SIZE Ø3.65mm x Ø3.65mm	
140 BLOCK	STANDARD WEIGHT LADDER REINFORCEMENT @ 400mm O/C WIRE SIZE Ø3.65mm x Ø3.65mm CONTINUOUS BOND BEAM C/W 1-15M AT TOP	1-15M AT FACE OF EACH OPENING 1-15M AT ENDS OF EACH WALL
190 BLOCK	EXTRA HEAVY LADDER REINFORCEMENT @ 400mm O/C WIRE SIZE Ø4.76mm x Ø3.65mm CONTINUOUS BOND BEAM C/W 2-15M (NOTE 2)	2-15M AT FACE OF EACH OPENING 2-15M AT ENDS OF EACH WALL BALANCE: 15M @ 800 O/C EXCEPT ELEVATOR WITH WALL INSERTS (NOTE 3)
NOTES:		

1. ALL BOND BEAMS TO HAVE 20MPA GROUT FILL. ALL VERTICAL BARS ARE TO BE FULL HEIGHT, DOWELED 150mm INTO FOUNDATION WALL. ALL BARS ARE TO BE DOWELED IN PLACE USING HILTI HT-HY 200 OR APPROVED EQUAL ADHESIVE IF THEY ARE NOT WET SET AT TIME OF POURING CONCRETE. FILL CORES SOLID WITH 20MPa GROUT WHERE WALL IS REINFORCED.

- 2. BOND BEAM IS TO BE LOCATED AT TOP OF WALL CONTINUOUS JUST UNDER BEAM BEARING PLATES. AND FILLED WITH 20MPa GROUT AT EACH UNISTRUT INSERT LOCATION U.N.O.
- OPENING AND ENDS OF EACH WALL FOR ALL LOAD BEARING WALLS IN ACCORDANCE WITH DETAILS BELOW.







S1.2 N.T.S.

7	GROUT SOLID	(2) VERTICAL REINFORC (TO MATCH WALL REINF SIZE) AT EACH END OF V	ORCING

 $\frown$  3 ackslash Typical block wall reinforcing plan view @ Ends of each wall S1.2 N.T.S.

WA	ALL TYPE	
BLC	DCK WALL	90mm BRICK/BLOCK TO BE <u>THERMAL</u> BLOCK SHEAR C APPROVED EQUAL CONN VERTICAL.
CON	CRETE WALL	90mm BRICK/BLOCK TO BE <u>THERMAL</u> HEAVY DUTY RAI EQUAL CONNECTORS) MII HORIZONTAL x 400mm VEF

# MASONRY CONNECTORS FOR INTERIOR BRICK/BLOCK

BACK-UP WALL	
CONCRETE WALL OR BLOCK WALL	90mm BRICK/BLOCK T FERO HEAVY DUTY RAF CONNECTORS) SPACE
NOTE	

MAXIMUM SPACING AND MINIMUM EMBEDMENT SHALL PER MANUFACTURER'S RECOMMENDATION AS WELL, THE MORE STRINGENT SHALL APPLY. CONTRACTOR TO SELECT PROPER TIES TO SUIT CAVITIES SHOWN IN ARCHITECTURAL DETAILS.

### MISCELLANEOUS LINTEL SCHEDULE FOR MECHANICAL OPENINGS IN NON-LOAD BEARING MASONRY BLOCK WALLS

WALL TYPE	CLEAR OPENING LENGTH	LINTEL	
	UP TO 600	BLOCK LINTEL C/W 2-15M	
190 BLOCK	600 ~ 1500	2L-89x89x6.4	
170 220 010	1500 ~ 1800	2L-102x89x7.9 (LLV)	
	1800 ~ 2400	2L-127x89x9.5 (LLV)	
NOTES:	1000 2400		

1. BACK TO BACK ANGLES SHALL BE STITCH WELDED OR BOLTED @ 600 O/C MAXIMUM. 2. MINIMUM BEARING LENGTH = 150mm UNLESS NOTED OTHERWISE. 3. WHERE LINTELS FOR MECHANICAL OPENINGS ARE NOT SHOWN ON STRUCTURAL FRAMING PLANS PROVIDE LINTELS IN ACCORDANCE WITH MISCELLANEOUS LINTEL SCHEDULE ABOVE, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF THESE OPENINGS.

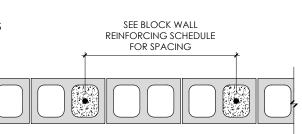
3. FOR ELEVATOR MASONRY BLOCK WALLS WITH UNISTRUT WALL INSERTS TO BE REINFORCED WITH 15M @ 400mm O. C. 4. PROVIDE TWO (2) VERTICAL REINFORCING BARS IN INDIVIDUAL BLOCK CORES FULL HEIGHT AT EACH FACE OF EACH

					••		
TEEL LINT	EL	 -				4	
O MATC	FORCING			-	-		
LING SIZE	i) at each Earing						
-1			5		-0		

1 TYPICAL BLOCK WALL REINFORCING ELEVATION @ FACES OF EACH OPENING

TO AT	25 200 200 LINTEL BRG.
TEEL LINTEL	

 $2 \rightarrow$  TYPICAL BLOCK WALL REINFORCING PLAN VIEW @ FACES OF EACH OPENING



### MASONRY CONNECTORS FOR EXTERIOR BRICK/BLOCK DESCRIPTION

BE TIED TO BACK-UP WALL USING STAINLESS STEEL FERO CONNECTOR WITH 4.76mm DIAMETER V-TIE (OR NECTORS) SPACED AT 800mm HORIZONTAL x 400mm

BE TIED TO BACK-UP WALL USING STAINLESS STEEL FERO AP-TIE WITH 4.76mm DIAMETER V-TIE (OR APPROVED INIMUM 2 FASTENERS PER L-PLATE, SPACED AT 800mm ERTICAL.

DESCRIPTION

TO BE TIED TO BACK-UP WALL USING HOT-DIP GALVANIZED AP-TIE WITH 4.76mm DIAMETER V-TIE (OR APPROVED EQUAL CED AT 800mm HORIZONTAL x 400mm VERTICAL.

### CONCRETE WALL FOOTING SCHEDULE

MARK	DESCRIPTION	MARK	DESCRIPTION
WF1	600 WIDE x 200 DEEP C/W 2-15M BOTTOM CONTINUOUS	WF2	750 WIDE x 250 DEEP C/W 2-15M BOTTOM CONTINUOUS

. ALL INTERIOR AND EXTERIOR FOOTINGS ARE TYPE WF1 UNLESS NOTED OTHERWISE. 2. WET SET 10M DOWELS x 450mm LONG AT 450mm O/C ALONG CENTER LINE OF WALL, WITH 125mm LONG INTO FOOTINGS, TYPICAL FOR ALL TYPES OF WALL FOOTINGS UNLESS NOTED OTHERWISE.

### STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	U/S COL.	T/O COL.
C1	HSS-127x127x6.4	BASE-A SEE 102/\$1.2	LEVEL 1 FLOOR	ROOF
C2	HSS-178x178x9.5 H.D.G. NOTE 5	BASE-B SEE 103/S1.2	LEVEL 1 FLOOR	ROOF

1. SEE ANCHOR BOLT (AB\*) AND BASE PLATE (BASE-\*) DETAILS ON \$1.2.

2. UNDERSIDE OF COLUMN BASE PLATE TO BE 40mm ABOVE TOP OF FOUNDATION WALL TO ALLOW FOR NON-SHRINK GROUT UNLESS NOTED OTHERWISE.

3. WHERE COLUMN IS NOT FITTED WITH AT LEAST 4 ANCHOR BOLTS, FOR ERECTION SAFETY REQUIREMENT, SPECIAL PRECAUTIONS SHALL BE TAKEN BY CONTRACTOR.

4. ALL HOLLOW SECTION STEEL (HSS) TO HAVE END ENCLOSURE PLATE U.N.O. 5. ALL STEEL COLUMNS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND TO BE HOT DIPPED GALVANIZED U.N.O.

### STEEL BEARING PLATE SCHEDULE

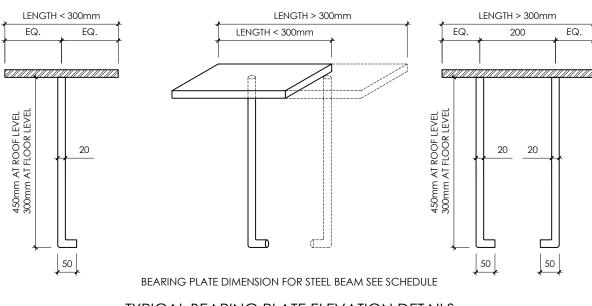
MARK <sub>w</sub>	PLATE SIZE /IDTH x LENGTH x THICKNESS	MINIMUM GROUTING WIDTH x DEPTH (b x d)	ANCHORAGE
BP1	180x180x12	600x400	1-20mm DIAMETER ROD
BP2	180x200x16	600x400	1-20mm DIAMETER ROD
BP3	160x160x10	600x400	1-20mm DIAMETER ROD

1. ALL STEEL BEAMS SHOWN ON FRAMING PLANS REQUIRE STEEL BEARING PLATES. (BUT FOR STEEL LINTELS SHOWN IN LINTEL SCHEDULES, BEARING PLATES ARE NOT REQUIRED UNLESS IT IS SPECIFICALLY SHOWN ON FRAMING PLANS). WHERE NOT SHOWN, PROVIDE BP1 AT ROOF LEVEL & BP2 AT FLOOR LEVEL. 2. MINIMUM 2 MASONRY BLOCK COURSES TO BE GROUTED SOLID BENEATH ALL STEEL BEARING PLATES U.N.O.

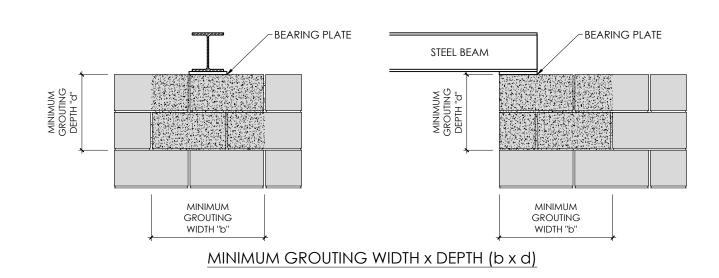
3. BEARING PLATES SHALL BE PROPERLY INSTALLED AND TO LINE UP CENTERLINE OF BEAMS AND LINTELS. FIELD

WELD ALL BEAMS AND LINTELS TO BEARING PLATES WITH 100mm LONG MINIMUM WELD SIZE 6mm FILLET WELD AT EACH SIDE OF MEMBER UNLESS NOTED OTHERWISE.

4. STEEL ANCHORAGE ROD FOR BEARING PLATE SEE TYPICAL DETAILS BELOW, WHEN USED AT ROOF PROVIDE HOLD DOWN BAR(S) 1-15M FULL HEIGHT OF WALL, MINIMUM 600mm LAP LENGTH AT BAR SPLICE LOCATIONS.

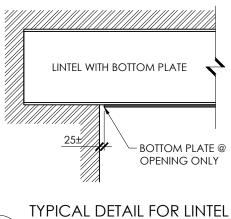


TYPICAL BEARING PLATE ELEVATION DETAILS



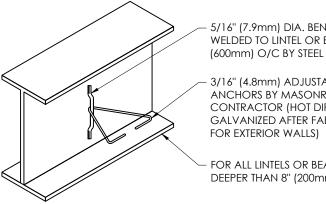
S1.2

	LINTEL SCHEDU	JLE	NEW BLOCK WALL
MARK	DESCRIPTION	DETAIL	WALL TYPE
L1	2L-89x89x6.4 BACK TO BACK ANGLES		190 BLOCK
L2	W200x27 C/W 180x6 BOTTOM PLATE		190 BLOCK (NOTE 5)
L3	2L-102x89x7.9 (LLV) BACK TO BACK ANGLES		190 BLOCK
L4	2L-127x89x9.5 (LLV) BACK TO BACK ANGLES		190 BLOCK
L5	2L-89x64x6.4 (LLV) BACK TO BACK ANGLES		140 BLOCK
L6	1L-127x89x9.5 (LLV) Sx=37.6x10 <sup>3</sup> mm <sup>3</sup> HOT DIPPED GALVANIZED ANGLE VERTICAL LEG AT BACKSIDE OF VENEER		90 BRICK
<ol> <li>ALL EX</li> <li>BACK</li> <li>BOTTC 600mr</li> <li>LINTEL LENGI IMPOS</li> <li>AT ALI LINTEL</li> <li>LINTEL</li> <li>LINTEL SHALL UNLES</li> <li>PROV</li> </ol>	ATES FOR LINTEL SCHEDULES: (TERIOR LINTELS TO BE HOT DIPPED GALVANIZED. TO BACK ANGLES SHALL BE STITCH WELDED OR BOLTED OM PLATE SHALL BE SHOP WELDED TO UNDERSIDE OF BEA m O.C. BOTH SIDES, SEE DETAIL ON S1.2 FOR LINTEL WITH BEARING LENGTH IS 200mm MINIMUM AT EACH END UN TH ON 190mm MASONRY WALL WHERE LINTEL IS PERPENE SSIBLE. L LINTELS FOR BLOCK WALL ABOVE WELD 15M WELDABLE BEARING PLATES ARE NOT REQUIRED UNLESS SPECIFICAL BEARING PLATES ARE NOT REQUIRED UNLESS SPECIFICAL BEARING PLATES ARE NOT REQUIRED UNLESS SPECIFICAL IDE TYPICAL LINTELS L1 FOR ELEVATOR CLEAR OPENINGS INGS 1675± FOR DELTA OR 2540± FOR VERTECHS.	M USING MINIMUM 6m BOTTOM PLATE. LESS NOTED OTHERWIS DICULAR TO WALL AND E RODS x200 LONG @6 LLY SHOWN IN SCHEDU 6mm FILLET WELDS ON	nmx50mm FILLET WELDS AT E. PROVIDE 190mm BEARING 200mm BEARING LENGTH IS 00 O/C TO TOP FLANGE OF ILE/ON PLAN. ALL LINTELS BOTH SIDES OF MEMBER



 $A \rightarrow WITH BOTTOM PLATE$ 

**\S1.2**∕ N.T.S.



- 5/16" (7.9mm) DIA. BENT ROD WELDED TO LINTEL OR BEAM @ 24" (600mm) O/C BY STEEL SUPPLIER – 3/16" (4.8mm) ADJUSTABLE ANCHORS BY MASONRY CONTRACTOR (HOT DIPPED GALVANIZED AFTER FABRICATION

- FOR ALL LINTELS OR BEAMS DEEPER THAN 8" (200mm) U.N.O.

TYPICAL MASONRY ANCHORAGE B  $\setminus$  TO STEEL LINTEL OR BEAM DETAIL  $\$  S1.2 N.T.S.

	LINTEL SCHEDU	JLE EX	KISTING MASONRY WALL
MARK	DESCRIPTION	DETAIL	WALL TYPE
LIE	(2)-W150x30 MINIMUM 200mm END BEARING LENGTH REFER TO DETAILS 1001&1002 AND SUGGESTED CONSTRUCTION PROCEDURE BELOW ENSURE BEAMS BEAR ON EXISTING MASONRY WALL BUT NOT BEAR ON NEW INFILLED SMALL MASONRY PIER		EXISTING 305± BLOCK
L2E	2L-89x64x6.4 (LLV) BACK TO BACK ANGLES	$\bigotimes$	EXISTING 140 BLOCK
L3E	2L-89x64x9.5 (LLV) BACK TO BACK ANGLES		EXISTING 140 BLOCK
L4E	HSS-102x102x9.5 MIN. 200mm END BEARING LENGTH C/W {***}x8 BOTTOM PLATE, BOTTOM PLATE AT OPENING ONLY (WIDTH OF BOTTOM PLATE {***} EQUAL TO TOTAL WALL THICKNESS -10mm, THIS SHALL BE SITE VERIFIED PRIOR TO PREPARING STEEL SHOP DRAWINGS AND FABRICATION BY CONTRACTORS)	{***}	EXISTING 240± BLOCK

TYPICAL NOTES FOR LINTEL INSTALLATIONS IN EXISTING MASONRY WALLS 1. GENERAL CONTRACTOR SHALL SITE VERIFY EACH EXISTING MASONRY WALL THICKNESS AT LINTEL LOCATION AND NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES FOR REVISIONS IF IT'S REQUIRED PRIOR TO LINTEL

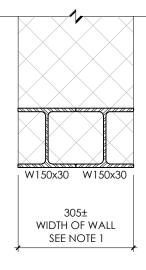
FABRICATION. 2. CONTRACTOR IS RESPONSIBLE TO PROVIDE PROPER TEMPORARY SHORING FOR EXISTING MASONRY WALLS,

FLOORS OR ROOF. 3. ENSURE SOLID BEARING FOR EACH END OF EACH LINTEL ON EXISTING MASONRY BLOCK, FILL VOIDS & ANY

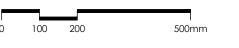
UNEVEN SURFACES WITH NON-SHRINK GROUT.ALL LINTELS ARE TO BE PROPERLY INSTALLED TIGHT TO UNDERSIDE OF EXISTING MASONRY WALL, GAPS BETWEEN U/S OF WALL AND T/O LINTEL SHALL BE GROUTED SOLID. 5. INITIAL SITE MEETING WITH ARCHITECT, PROJECT ENGINEER AND CONTRACTOR TO TAKE PLACE, PRIOR TO START

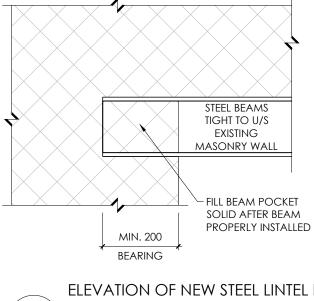
OF CONSTRUCTION, TO REVIEW GENERAL CONDITIONS IF IT IS REQUIRED.

SUGGESTED CONSTRUCTION PROCEDURE: FOR LINTEL L1E (2)-W150x30 ONLY 1. REMOVE APPROXIMATE HALF OF EXISTING MASONRY WALL THICKNESS AND INSTALL FIRST BEAM; 2. REMOVE REMAINDER OF EXISTING MASONRY WALL THICKNESS TO INSTALL SECOND BEAM; 3. REMOVE EXISTING MASONRY WALL FOR PROPOSED OPENING.



SECTION THRU NEW STEEL LINTEL IN 1001 EXISTING WALL FOR NEW OPENING



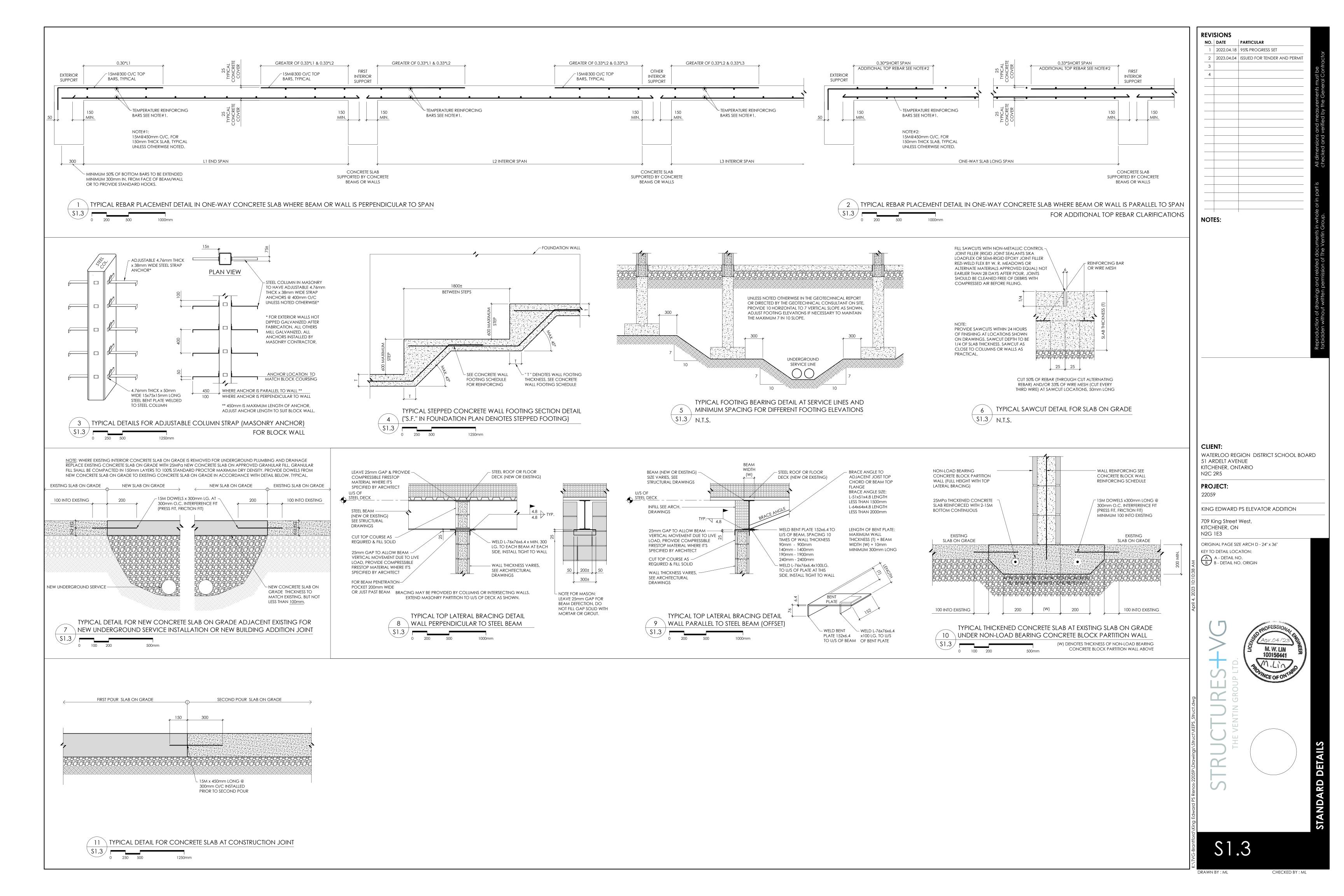


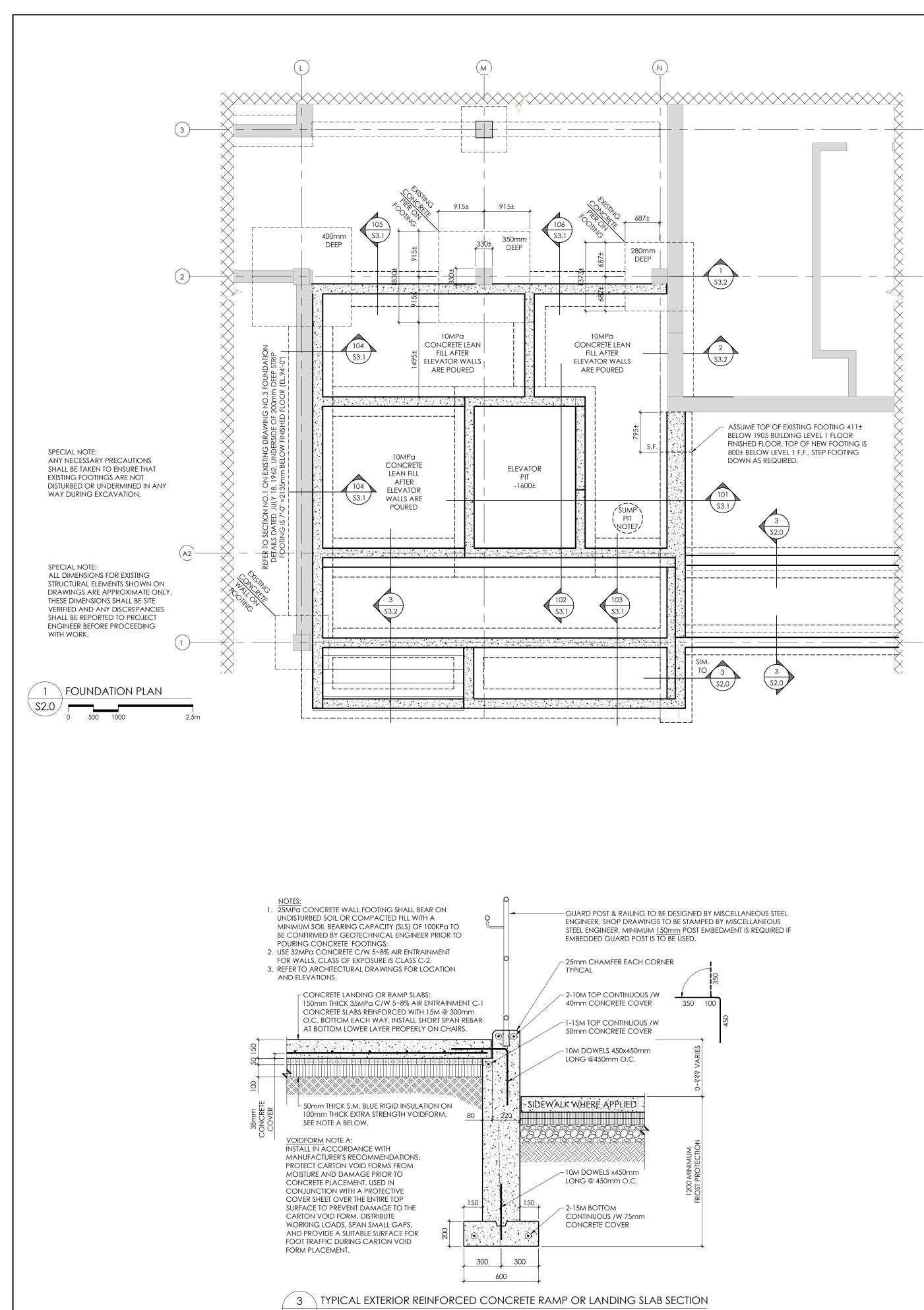
ELEVATION OF NEW STEEL LINTEL IN (1002) EXISTING WALL FOR NEW OPENING \S1.2/

0	100	200	500mm

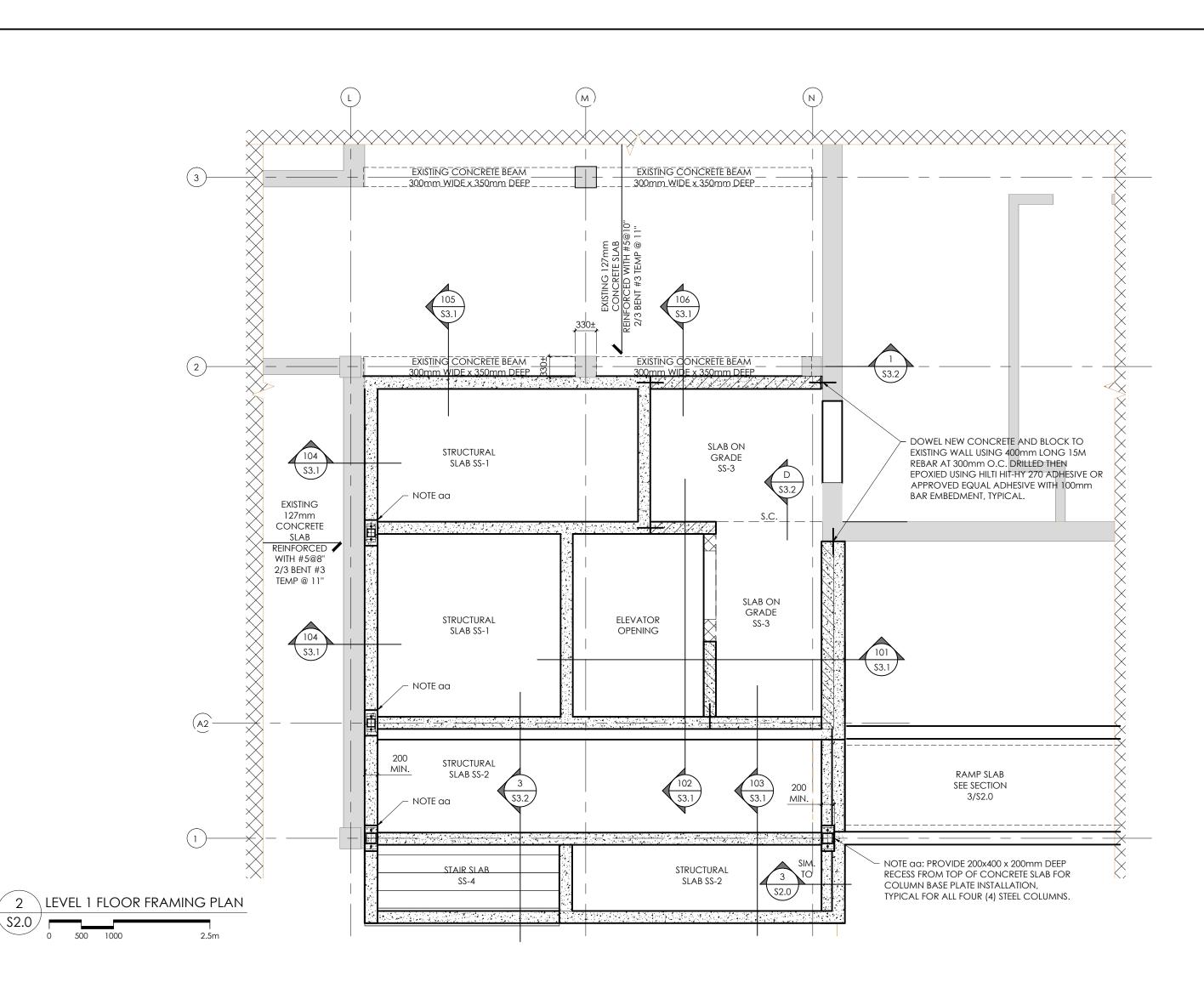
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	WATE 51 AF KITCH N2C PRO 2205	ERLOO F RDELT A' HENER, C 2R5 <b>JECT:</b> 9	VENUI	<u>=</u> RIO			BOAR	D
	WATE 51 AF KITCH N2C 2205 KING 709 K KITCH	ERLOO F RDELT A HENER, ( 2R5 JECT: 9 EDWAF	VENUI ONTAF	ELEVATC			BOAR	D
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23 10:10:38 AM	WATE 51 AF KITCH N2C 2205' KING 709 K KITCH N2G ORIGII KEY TC	ERLOO F RDELT A' HENER, ( 2R5 JECT: 9 EDWAF EDWAF HENER, ( 1E3 NAL PAGE DETAIL LI A - DETAIL		ELEVATC est, RCH D - 24"	DR ADD		BOAR	
April 4, 2023 10:10:38 AM	WATE 51 AF KITCH N2C 2205' KING 709 K KITCH N2G ORIGII KEY TC	ERLOO F RDELT A' HENER, ( 2R5 JECT: 9 EDWAF EDWAF HENER, ( 1E3 NAL PAGE DETAIL LI A - DETAIL		ELEVATC est, RCH D - 24"	DR ADD		BOAR	
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S2.0 0 200 500



### LEVEL 1 FLOOR CONCRETE SLAB SCHEDULE

MARK	DESCRIPTION
SS-1	STRUCTURAL SLAB IS TO BE MINIMUM 150mm THICK <u>25MPa</u> EXPOSED CLASS N CONCRETE REINFORCED WITH 15M @ 300mm O.C. SHORT DIRECTION BOTTOM LOWER LAYER, C/W 25mm CONCRETE CLEAR COVER BELOW & 15M @ 300mm O.C. LONG DIRECTION BOTTOM UPPER LAYER, APPROXIMATE 90mm CONCRETE CLEAR COVER ABOVE
SS-2	STRUCTURAL SLAB IS TO BE MINIMUM 135mm THICK (56 DAY COMPRESSIVE STRENGTH OF 35MPa C/W 5~8% AIR ENTRAINMENT AND CLASS OF EXPOSURE CLASS C-1) CONCRETE REINFORCED WITH 15M @ 300mm O.C. SHORT DIRECTION BOTTOM LOWER LAYER, C/W 38mm CONCRETE CLEAR COVER BELOW & 15M @ 300mm O.C. LONG DIRECTION BOTTOM UPPER LAYER TOP OF SLAB TO BE SLOPED FOR DRAINAGE PURPOSE BOTTOM OF SLAB LEVEL, DEPTH OF SLAB VARIES 135mm~200mm
SS-3	SLAB ON GRADE IS TO BE MINIMUM 150mm THICK <u>25MPa</u> EXPOSED CLASS N CONCRETE REINFORCED WITH FLAT SHEETS WELDED WIRE MESH 152x152 MW18.7/MW18.7 (6x6 W6.0/W6.0) ON <u>'15 mil W.R. MEADOWS PERMINATOR'</u> VAPOUR BARRIER OR APPROVED ALTERNATE OVER ENGINEERED GRANULAR FILL COMPACTED IN 150mm LAYERS TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY FROM UNDISTURBED SOIL CONFIRMED BY SOIL ENGINEER. WIRE MESH SHALL BE PROPERLY HOOKED UP TO 50mm BELOW CONCRETE SLAB SURFACE DURING POURING CONCRETE.
SS-4	STRUCTURAL STAIR SLAB IS TO BE MINIMUM 150mm THICK (56 DAY COMPRESSIVE STRENGTH OF 35MPa C/W 5~8% AIR ENTRAINMENT AND CLASS OF EXPOSURE CLASS C-1) CONCRETE REINFORCED WITH 15M @ 300mm O.C. SHORT DIRECTION BOTTOM LOWER LAYER, C/W 38mm CONCRETE CLEAR COVER BELOW & 15M @ 300mm O.C. LONG DIRECTION BOTTOM UPPER LAYER PROVIDE (1) CONTINUOUS 10M NOSER BAR FOR EACH STEP

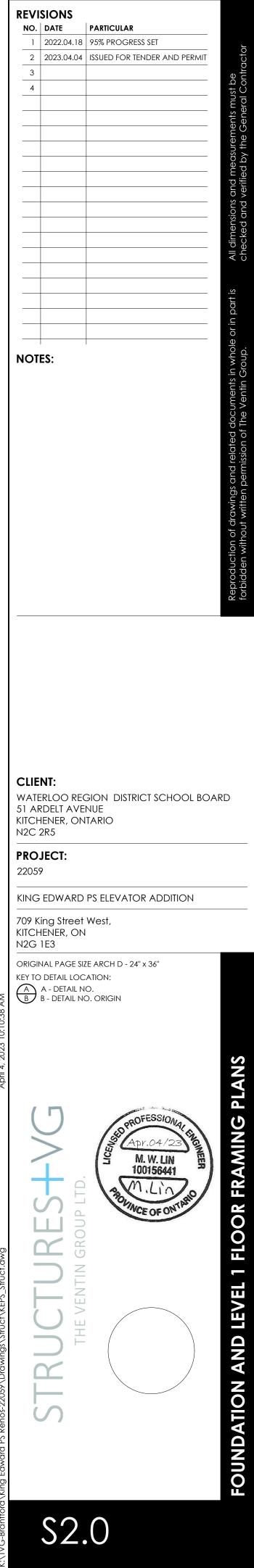
CONCRETE TO BE NORMAL WEIGHT 150pcf CONCRETE.
 REFER TO CONCRETE NOTE 11 ON \$1.1 FOR CONCRETE MIX.

2. REFER TO CONCRETE NOTE 11 ON \$1.1 FOR CONCRET
 3. PROVIDE FORMWORK BELOW SLABS.

 REINFORCING MAT TO BE PROPERLY SUPPORTED ON CHAIRS ON FORMWORK PRIOR TO POURING CONCRETE.
 WHERE IT IS REQUIRED SPLICE BOTTOM REBAR AT FOUNDATION WALL LOCATIONS AND SPLICE TOP REBAR AT MID-SPAN OF SLAB BETWEEN TWO WALLS.

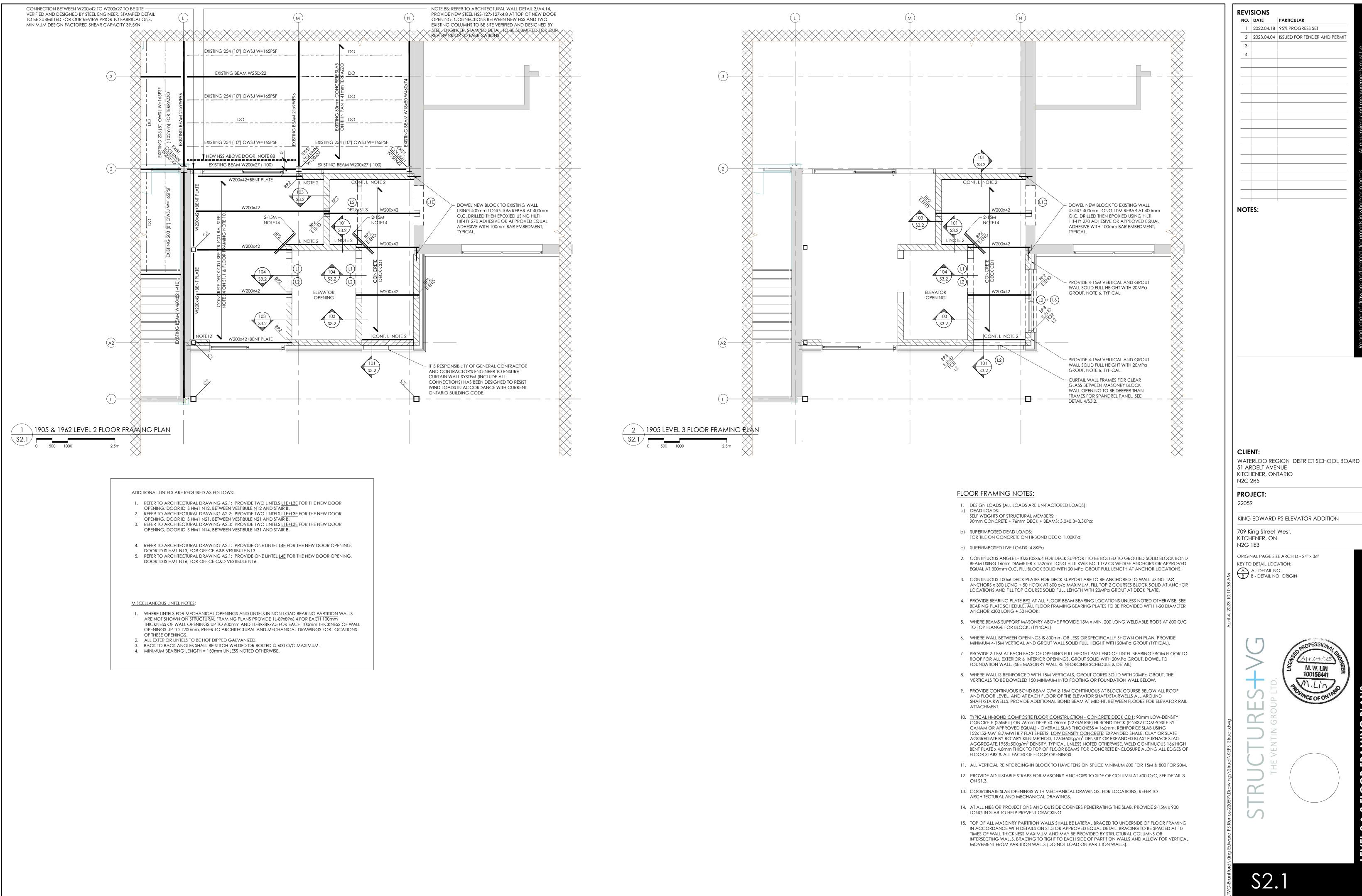
# FOUNDATION NOTES:

- 1. UNDERSIDE OF ALL EXTERIOR FOOTINGS TO HAVE MINIMUM 1200 FROST PROTECTION.
- 2. FOOTING THICKNESS SHOWN IS MINIMUM. ALL SIDES OF FOOTINGS ARE TO BE PROPERLY FORMED TO PREVENT OUTWARD FLOW OF CONCRETE BELOW FORMWORK. EARTH FORMS ARE <u>NOT</u> PERMITTED ON THIS PROJECT.
- 3. STEP FOOTINGS DOWN AT SITE SERVICES WHERE IT IS REQUIRED. "S.F." DENOTES STEPPED FOOTING LOCATION, SEE DETAIL 4 ON SHEET \$1.3. FOR ALL SITE SERVICE LOCATIONS SEE CIVIL DRAWINGS.
- PROVIDE SAWCUT CONTROL JOINTS IN SLAB ON GRADE NOTED THUS: "S.C." ON PLAN. REFER TO DETAIL 6/S1.3. TYPICALLY SAWCUTS TO BE PROVIDED AT DOOR OPENINGS.
   PROVIDE SLEEVES IN FOUNDATION WALLS FOR STORM AND SANITARY LINES. SEE SITE SERVICES DRAWING
- FROVIDE SLEEVES IN FOUNDATION WALLS FOR STORM AND SANITAR'T LINES. SEE SITE SERVICES DRAWING FOR SIZE AND LOCATION.
   TYPICAL CORNER & INTERSECTION SPLICE BARS SHALL BE PROVIDED IN CONCRETE WALLS IN
- ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR REINFORCING STEEL. SPLICE BARS DETAILS SHOULD BE PROVIDED ON REBAR SHOP DRAWINGS FOR APPROVAL.
- SUMP PIT SHALL BE INSTALLED PRIOR TO ELEVATOR BASE SLAB AND ADJACENT FOOTINGS, 10MPa CONCRETE LEAN FILL UP TO UNDERSIDE OF ELEVATOR BASE SLAB AND ADJACENT FOOTINGS AFTER SUMP PIT IS PROPERLY INSTALLED.



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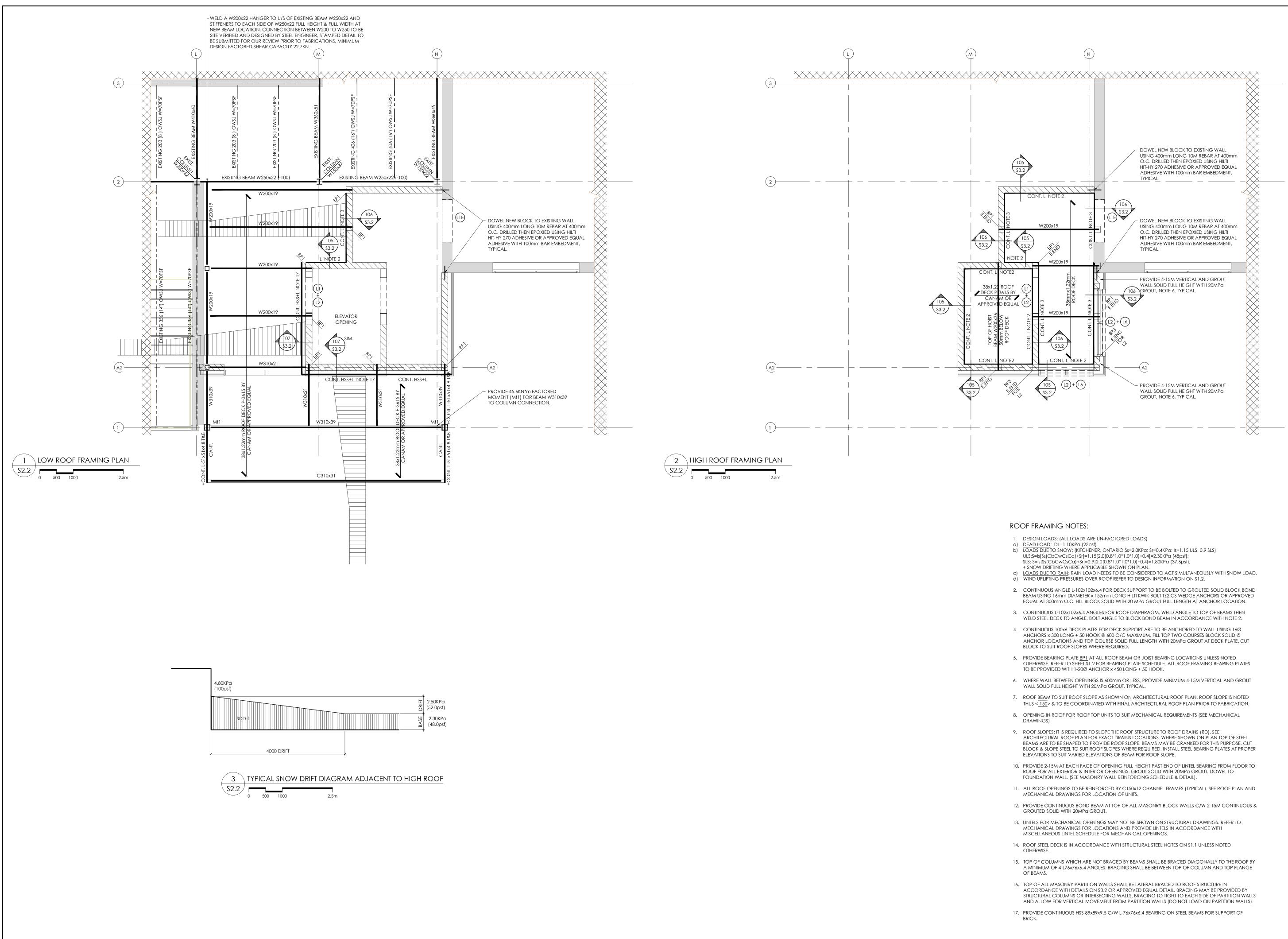
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