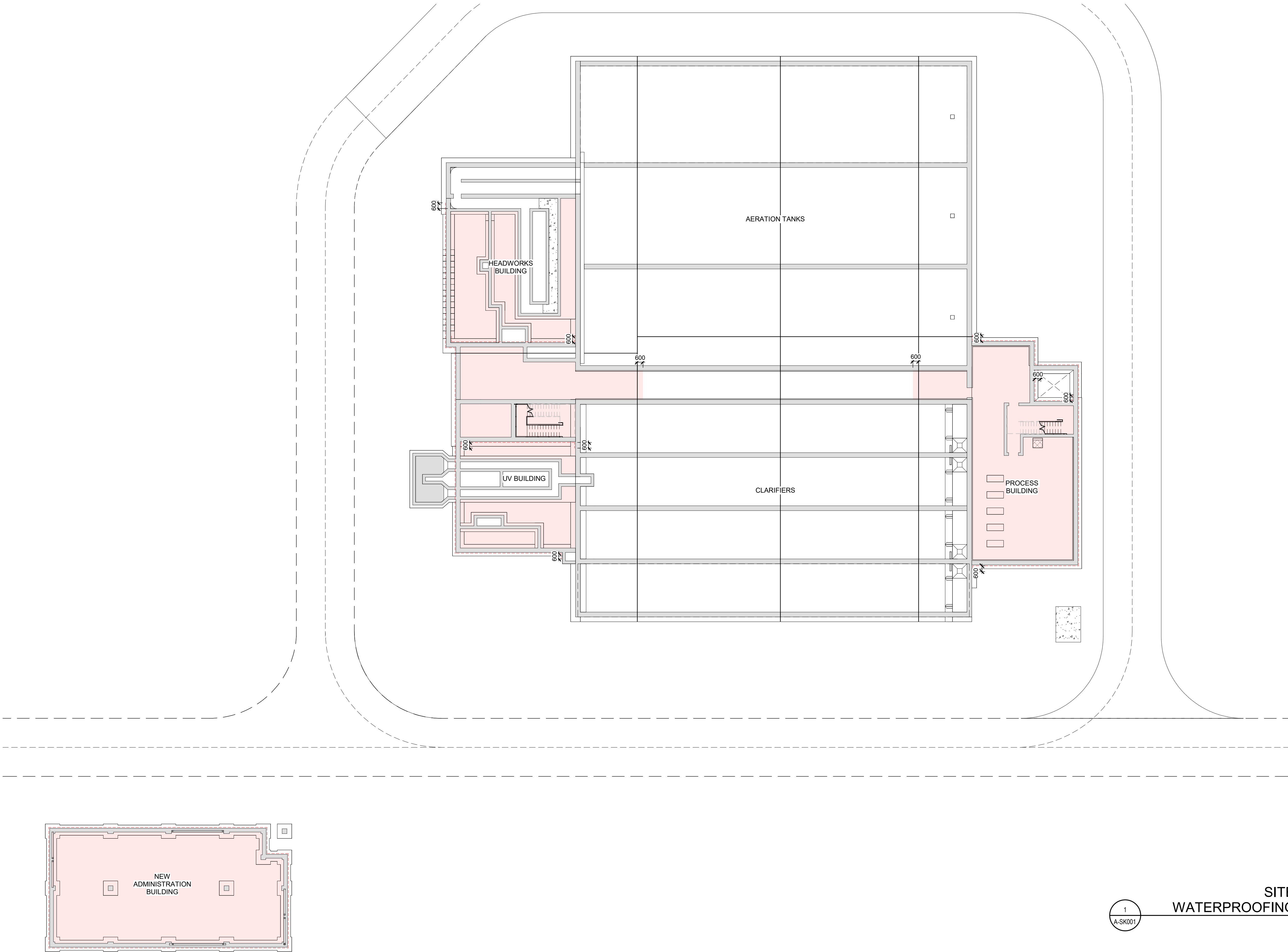


WATERPROOFING SITE  
PLAN LEGEND


- UNDERSLAB WATERPROOFING
- FULL HEIGHT WATERPROOFING  
MEMBRANE

NOTE:  
1. REFER TO BUILDING SECTIONS AND WALL SECTIONS  
FOR WATERPROOFING VERTICAL EXTENT  
2. WHEREVER THERE IS UNDERSLAB WATERPROOFING,  
WRAP DOWN 600MM TYPICAL AND SEAL TO  
FOUNDATION.



1  
A-SK001

SITE WIDE  
WATERPROOFING PLAN  
SCALE: 1:200

PROJECT: BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES 100 COUNTY ROAD 64, BRIGHTON, ONTARIO			
DRAWING: SITE WIDE WATERPROOFING PLAN			
 J.L. Richards ENGINEERS ARCHITECTS PLANNERS www.jrichards.ca	This drawing is copyright protected and may not be reproduced or used for purposes other than execution of the described work without the express written consent of J.L. Richards & Associates Limited	DESIGN: SC/KA	ISSUED FOR ADDENDUM 1
		DRAWN: NP	
		CHECKED: HB/SC	DRAWING #: A-SK001
		JLR #: 32296-001	

PLOT DATE: 27/05/2025 3:28:16 PM File Location: C:\Users\NPardehal\Documents\32296 A-Architecture Site R23\_NPardehal.rvt



TYP. PARAPET CAP ASSEMBLY  
PREFINISHED METAL CAP FLASHING  
C/W CONT. GALV. STEEL CLEAT  
ROOF MEMBRANES  
16mm EXT. GRADE PLYWOOD  
CONT. PRESSURE TREATED WOOD  
BLOCKING FILLED W/ SEMI-RIGID  
INSULATION BOARD (R-22)  
16mm EXT. GRADE PLYWOOD

EXTEND AIR/VAPOUR BARRIER  
ON THE U/S OF PARAPET CAP  
AND UP FACE OF CAP  
OVERLAP ROOF MEMBRANE  
AND AIR/VAPOUR BARRIER,  
TYP.

WEEP VENT @ 800 O/C

FASTEN PARAPET TO  
CONCRETE STRUCTURE

HOLLOW CORE SLAB WITH  
TOPPING, REFER TO STRUCTURAL

LOOP AND DOUBLE UP  
AIR/VAPOUR BARRIER  
@ MOVEMENT JOINT

MASONRY TIES

EXTEND ROOF MEMBRANE  
FLASHING UP AND OVER  
SLOPED PARAPET CAP,  
OVER LAP WITH AIR/VAPOUR  
BARRIER

EXTEND VAPOUR BARRIER  
150mm BEHIND ROOF  
MEMBRANE

R1

W3

W1

EXTERIOR

INTERIOR

### TYPICAL PARAPET DETAIL @CONCRETE BLOCK

SCALE: 1:10

1  
A002

EXTERIOR

LAP AIR BARRIER OVER  
THROUGH WALL FLASHING

MORTAR DROPPING COLLECTION  
DEVICE

THROUGH WALL FLASHING OVER  
PREFINISHED METAL FLASHING C/W  
DRIP EDGE

WEEP VENTS @ 800mm O/C

GRADE, REFER TO CIVIL

50mm RIGID INSULATION TO  
EXTEND 1400mm BELOW GRADE.

WATERPROOFING MEMBRANE AND  
DRAINAGE BOARD TO EXTEND FROM  
GRADE TO EXTERIOR FACE OF  
FOOTING FOR FULL PERIMETER OF  
FOUNDATION, TYPICAL.

CONCRETE FOUNDATION WALL, REFER  
TO STRUCTURAL

W1

INTERIOR

### TYPICAL BASE DETAIL @CONCRETE BLOCK

SCALE: 1:10

4  
A002

LAP AIR BARRIER OVER  
THROUGH WALL FLASHING

MORTAR DEFLECTION DEVICE

THROUGH WALL FLASHING OVER  
PREFINISHED METAL FLASHING C/W  
DRIP EDGE

WEEP VENTS @ 800mm O/C

WRAP AIR BARRIER ONTO WOOD  
BLOCKING FASTEN TO WALL 2 ROWS  
@ 400 c/c

GALVANIZED LOOSE L ANGLE LINTEL,  
REFER TO STRUCTURAL

W1

INTERIOR

GROUT FILL CONCRETE BLOCK,  
REFER TO STRUCTURAL FOR BOND  
BEAMS ABOVE AND BELOW OPENINGS

CONTINUOUS SEALANT OVER BACKER  
ROD

SEAL AIR BARRIER ONTO LOUVRE  
FRAME

SIZE TO SUIT MECHANICAL  
190mm MINIMUM

EXTERIOR

INTERIOR

PREFINISHED METAL SILL FLASHING  
TERMINATED IN DRIP EDGE

FASTEN LOUVRE FRAME THROUGH  
WOOD SHIMS & WOOD BLOCKING

WRAP AIR BARRIER ONTO WOOD  
BLOCKING FASTEN TO WALL 2 ROWS @  
400 c/c

W1

INTERIOR

CONTINUOUS SEALANT OVER BACKER  
ROD

FILL VOID WITH LOW EXPANSION  
SPRAY FOAM

PREFINISHED METAL SILL

GROUT FILL CONCRETE BLOCK, REFER  
TO STRUCTURAL FOR BOND BEAMS  
ABOVE AND BELOW OPENINGS

### LOUVER SECTION DETAIL

SCALE: 1:10

7  
A002

PARAPET CAP ASSEMBLY  
PREFINISHED METAL CAP FLASHING  
C/W CONT. GALV. STEEL CLEAT  
ROOF MEMBRANES  
16mm EXT. GRADE PLYWOOD  
CONT. PRESSURE TREATED WOOD  
BLOCKING FILLED W/ SEMI-RIGID  
INSULATION BOARD (R-22)  
16mm EXT. GRADE PLYWOOD

PREFINISHED METAL CLOSURE  
PLATE AND DRIP EDGE

EXTEND AIR/VAPOUR BARRIER ON THE  
U/S OF SCUPPER EXTENSION AND UP  
FACE OF EXTENSION. OVERLAP  
ROOF MEMBRANE AND AIR/VAPOUR  
BARRIER, TYP.

FASTEN PARAPET TO  
CONCRETE STRUCTURE

HOLLOW CORE SLAB WITH  
TOPPING, REFER TO STRUCTURAL

MASONRY TIES

LOOP AND DOUBLE UP  
AIR/VAPOUR BARRIER  
@ MOVEMENT JOINT

312  
10  
CAP SLOPE

W3

W1

EXTERIOR

INTERIOR

### TYPICAL SCUPPER DETAIL

SCALE: 1:10

2  
A002

LAP AIR BARRIER  
OVER THROUGH WALL FLASHING

MASONRY TIES

MORTAR MESH DROPPING  
COLLECTION DEVICE, REFER TO  
SPECS.

THROUGH WALL FLASHING OVER  
PREFINISHED METAL FLASHING c/w  
DRIP EDGE

GALVANIZED LOOSE L ANGLE,  
REFER TO STRUCTURAL

WEEP VENT @ 800mm O/C

WELD ANGLE AND BENT PLATE  
CONTINUOUSLY, GRIND SMOOTH  
JOINT

10mm THICK GALVANIZED STEEL BENT  
PLATE WITH POST INSTALLED  
ANCHORS (3 SIDES OF OPENING)

OVERHEAD DOOR WEATHER STRIP

INSULATED OVERHEAD DOOR

GL

W1

INTERIOR

### OVERHEAD DOOR HEADER

SCALE: 1:10

5  
A002

10mm THICK GALVANIZED STEEL  
BENT PLATE WITH POST  
INSTALLED (3 SIDES) WITH HIGH  
PERFORMANCE COATING FINISH

INSULATED OVER HEAD DOOR

SLOPE CONCRETE @ OVERHEAD  
DOOR FACE TO EXTERIOR. REFER  
TO STRUCTURAL.

50mm RIGID INSULATION BELOW  
GRADE. WATERPROOFING  
MEMBRANE AND DRAINAGE BOARD  
TO EXTEND FROM GRADE TO  
EXTERIOR FACE OF FOOTING. TYP.  
FULL PERIMETER OF FOUNDATION.

GL

600  
TYP.

### OVERHEAD DOOR SILL

SCALE: 1:10

8  
A002

W1

INTERIOR

ROOF DRAIN COMPLETE WITH  
INSERT AND BASKET REFER  
TO MECHANICAL

1220mm x1220mm DRAIN SUMP,  
TAPER RIGID INSULATION  
DOWN TO 50mm AT DRAIN

WRAP VAPOUR BARRIER  
UP AND AROUND  
INSULATION AND LAP IN  
DRAIN COLLAR

HOLLOW CORE SLAB  
WITH TOPPING, REFER TO  
STRUCTURAL

10  
A002

### SCUPPER ISOMETRIC

SCALE: 1:10

3  
A002

### TYPICAL ROOF DRAIN

SCALE: 1:10

INTERIOR

LAP AIR BARRIER OVER  
THROUGH WALL  
FLASHING

REFER TO  
STRUCTURAL FOR  
LINTEL DETAILS

CONCRETE BOND BEAM,  
REFER TO STRUCTURAL

PROVIDE WOOD  
BLOCKING, FASTEN TO  
CONCRETE BLOCK TWO  
ROWS @ 400mm c/c

PROVIDE CONTINUOUS  
SEALANT OVER BACKER  
ROD ON PERIMETER OF  
OPENING ON BOTH SIDE OF  
FRAME

INSULATED EXTERIOR DOOR  
AND FRAME

200

150  
MIN.

100

50

25

12.5

6.25

3.125

1.5625

0.78125

0.390625

0.1953125

0.09765625

0.048828125

0.0244140625

0.01220703125

0.006103515625

0.0030517578125

0.00152587890625

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6.31088705E-28

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3.9443044E-29

1.9721522E-29

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4.9303805E-30

2.46519025E-30

1.23259512E-30

6.1629756E-31

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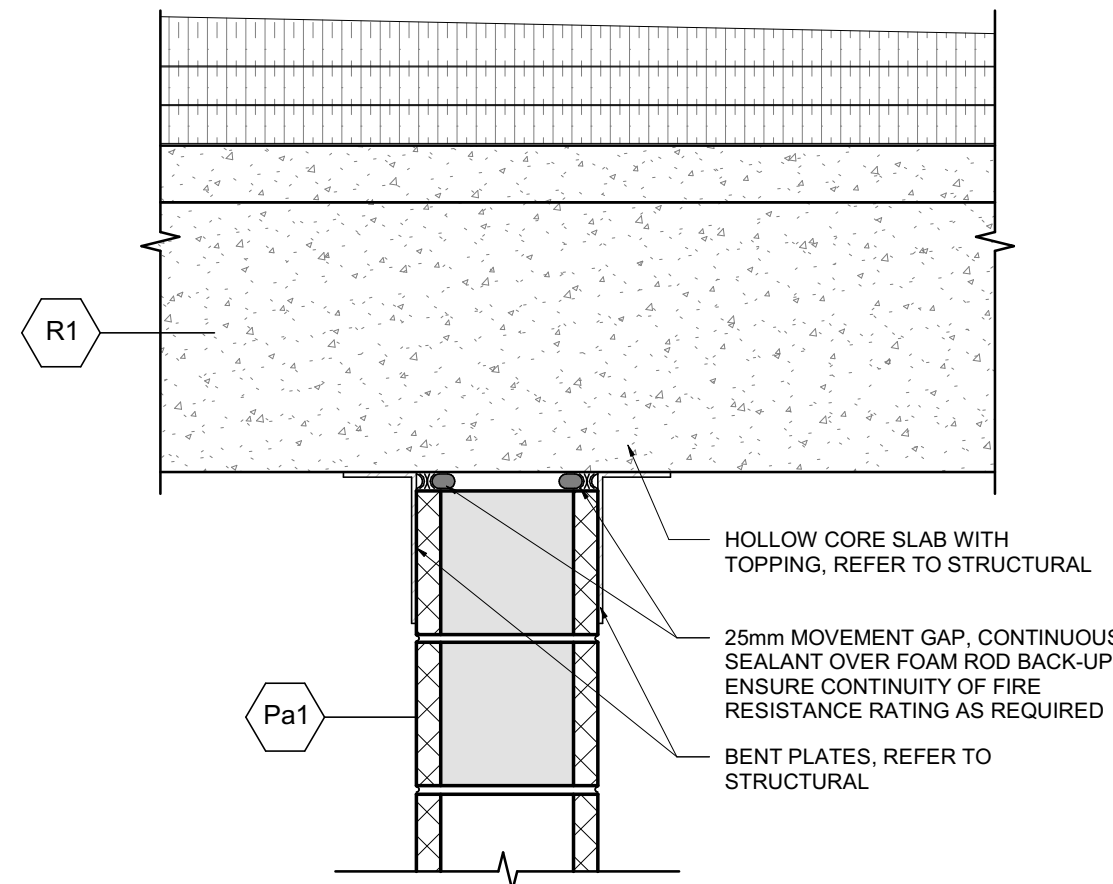
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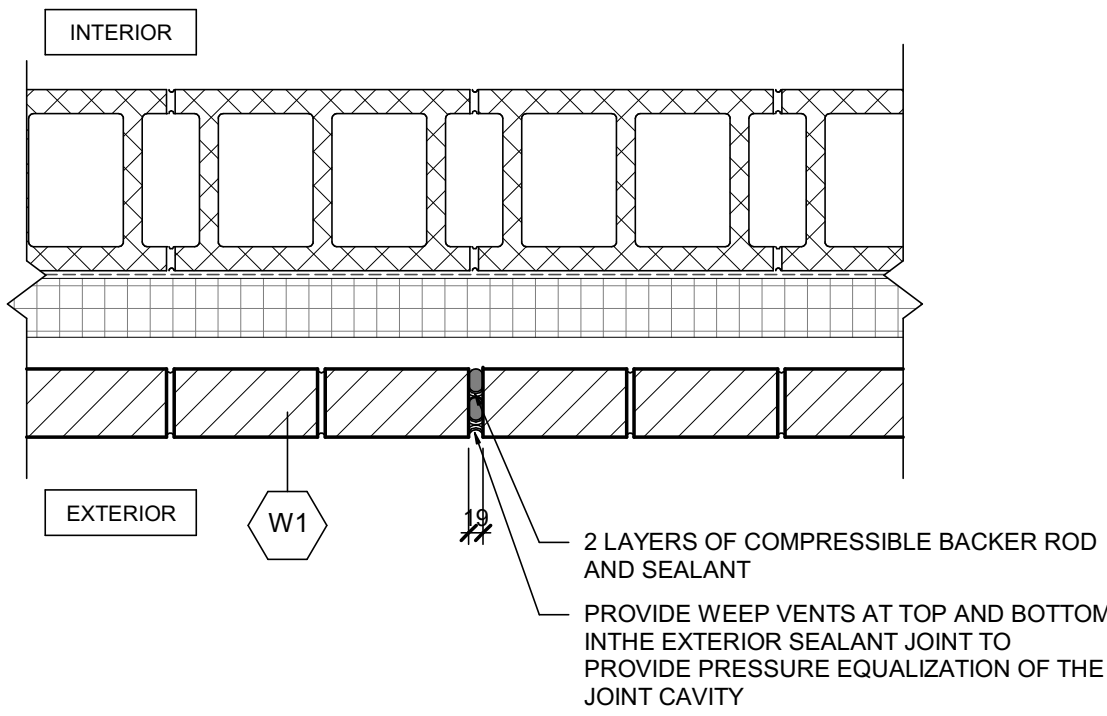
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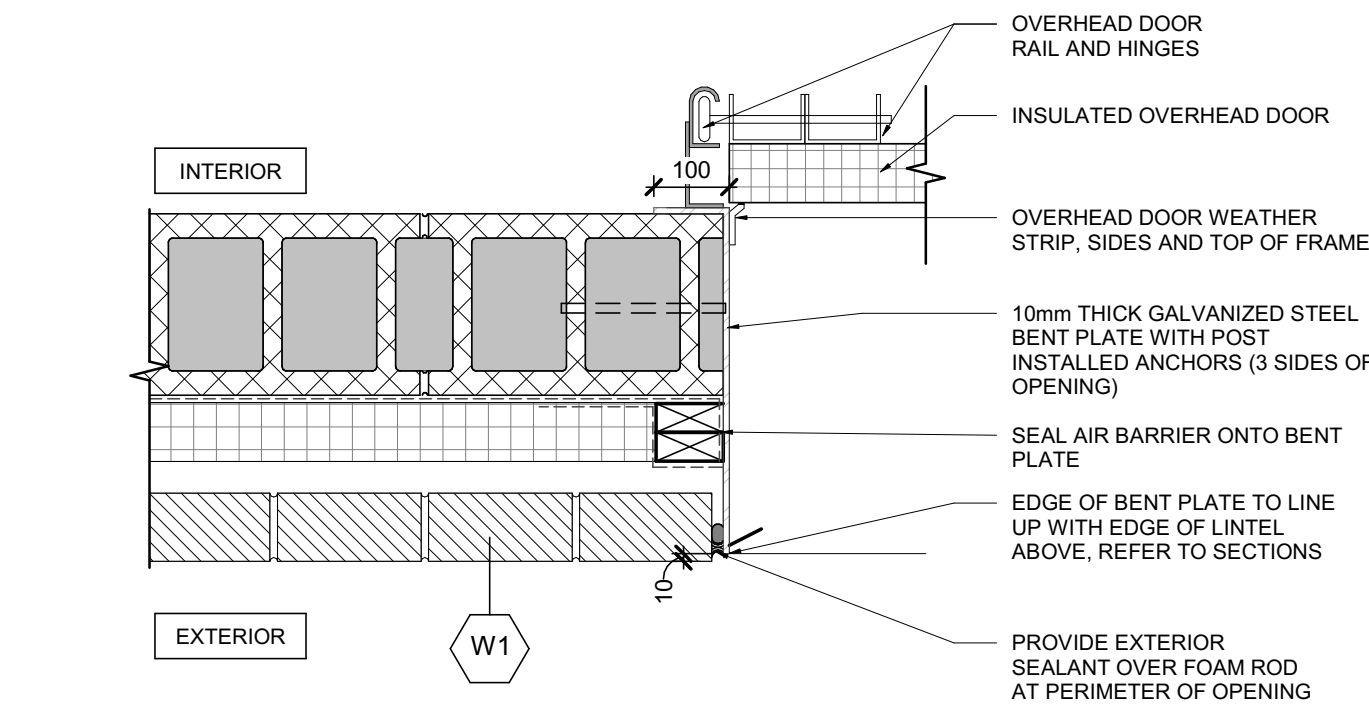
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A003  
TYPICAL INTERIOR CONCRETE BLOCK PARTITION@ HOLLOW CONCRETE SLAB

SCALE : 1 : 10



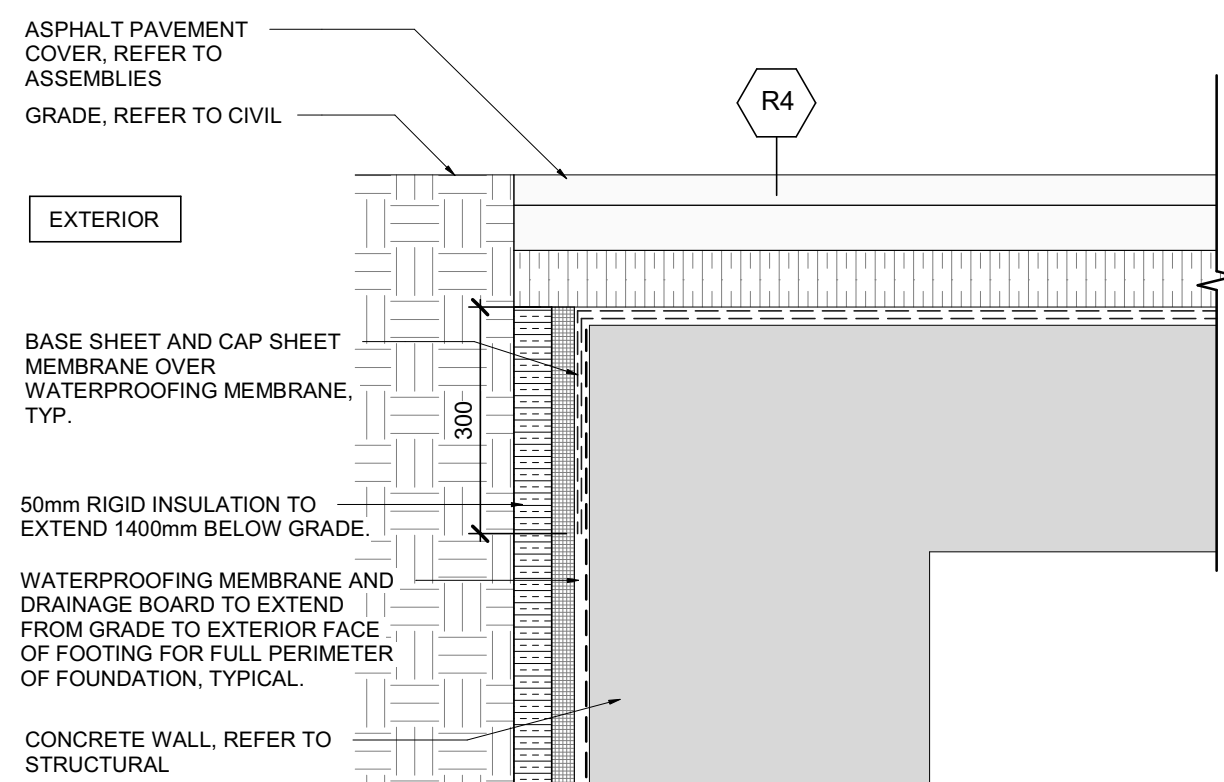
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A003  
TYPICAL CONTROL JOINT PLAN DETAIL

SCALE : 1 : 10



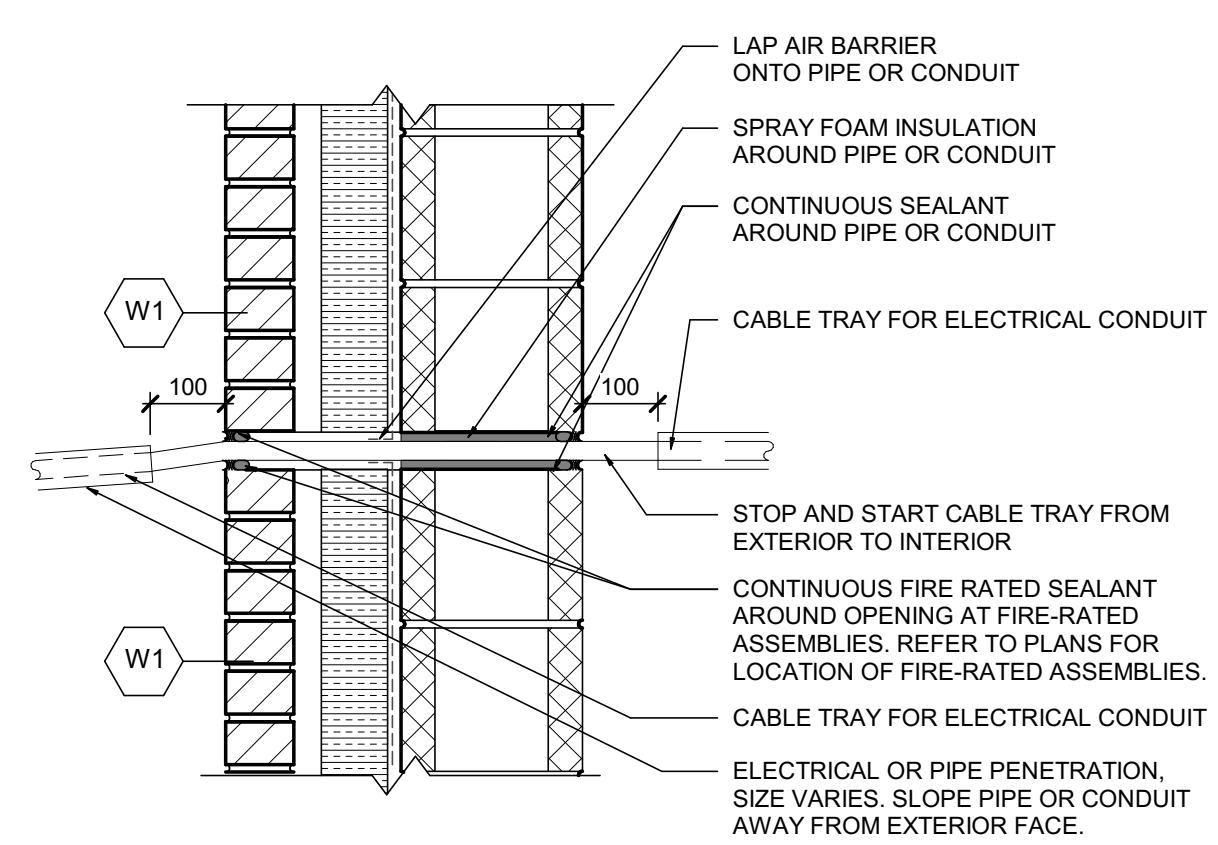
3  
A003  
TYPICAL OVERHEAD DOOR ANCHOR

SCALE : 1 : 10



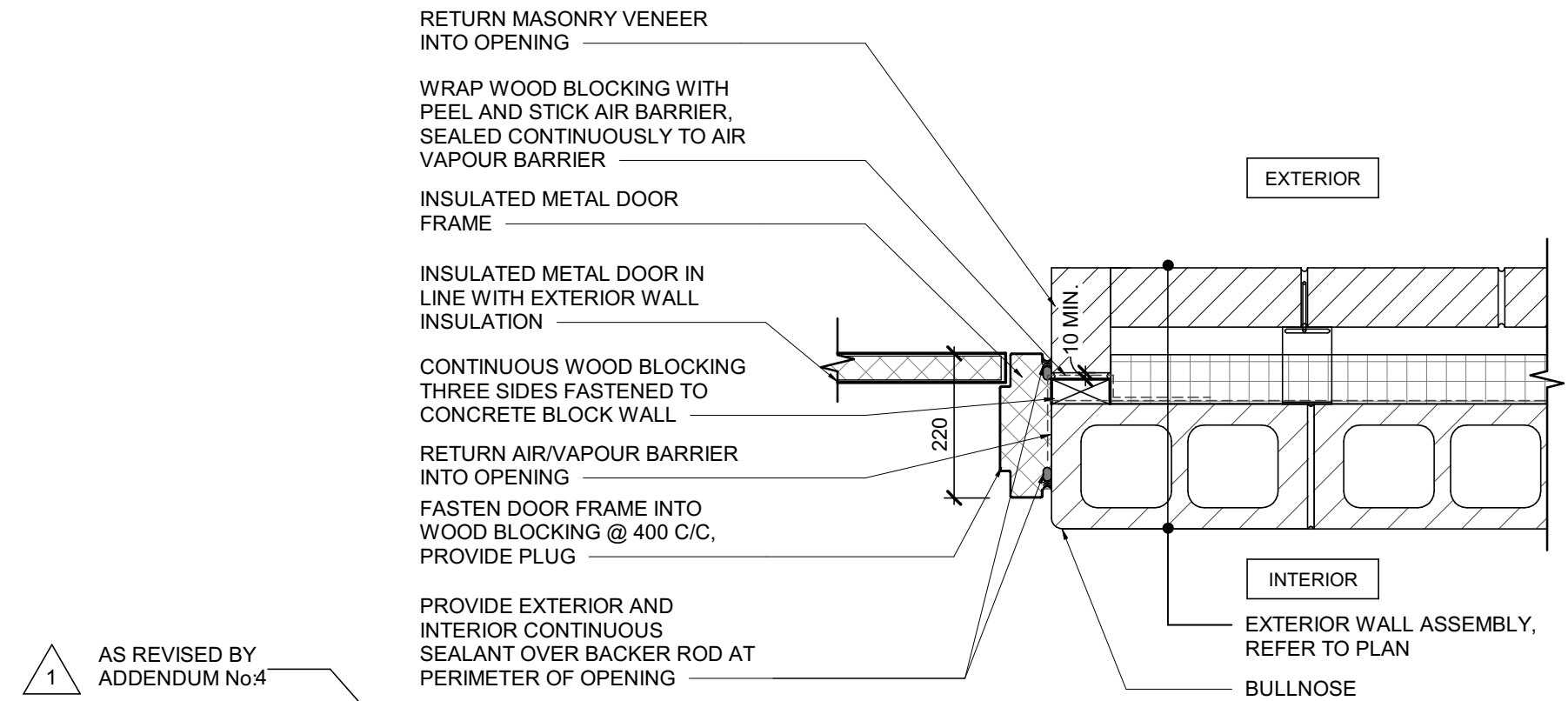
4  
A003  
GRAVEL ROOF DETAIL @BELOW GRADE WALL

SCALE : 1 : 10



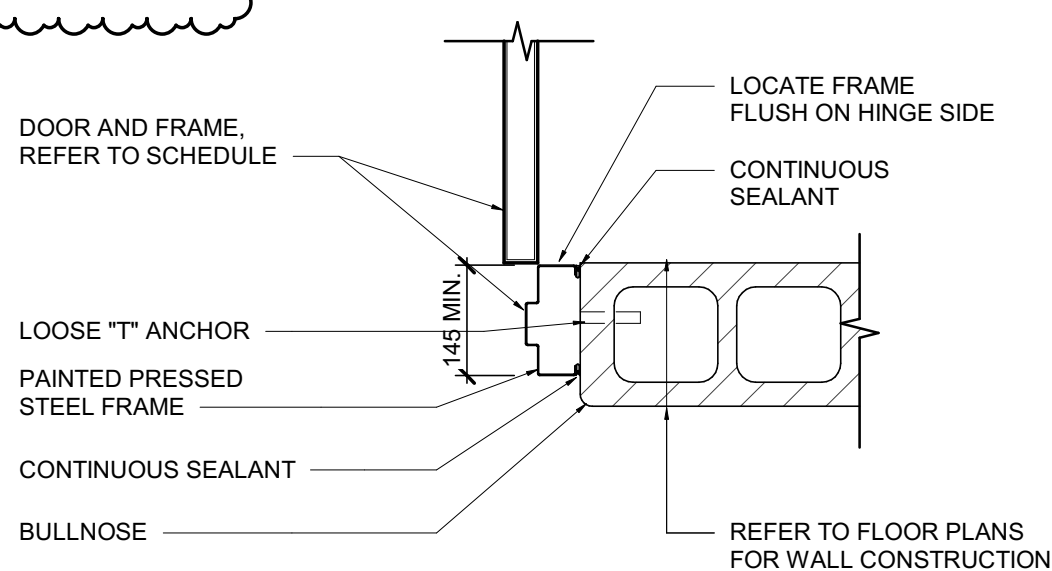
5  
A003  
TYPICAL ELECTRICAL OR PIPE PENETRATION @ CONCRETE BLOCK

SCALE : 1 : 10



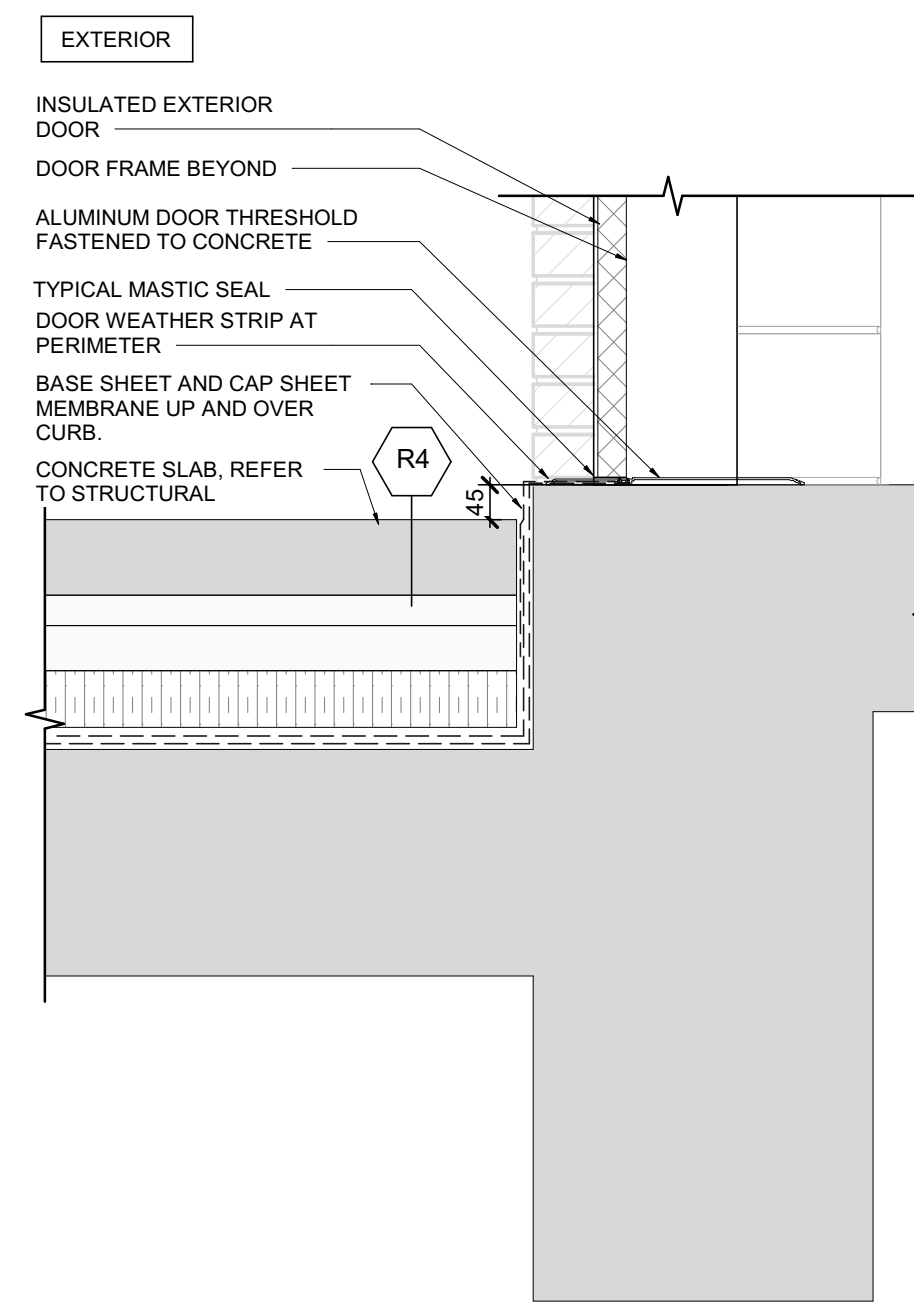
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A003  
TYPICAL EXTERIOR DOOR JAMB @ CONCRETE BLOCK

SCALE : 1 : 10



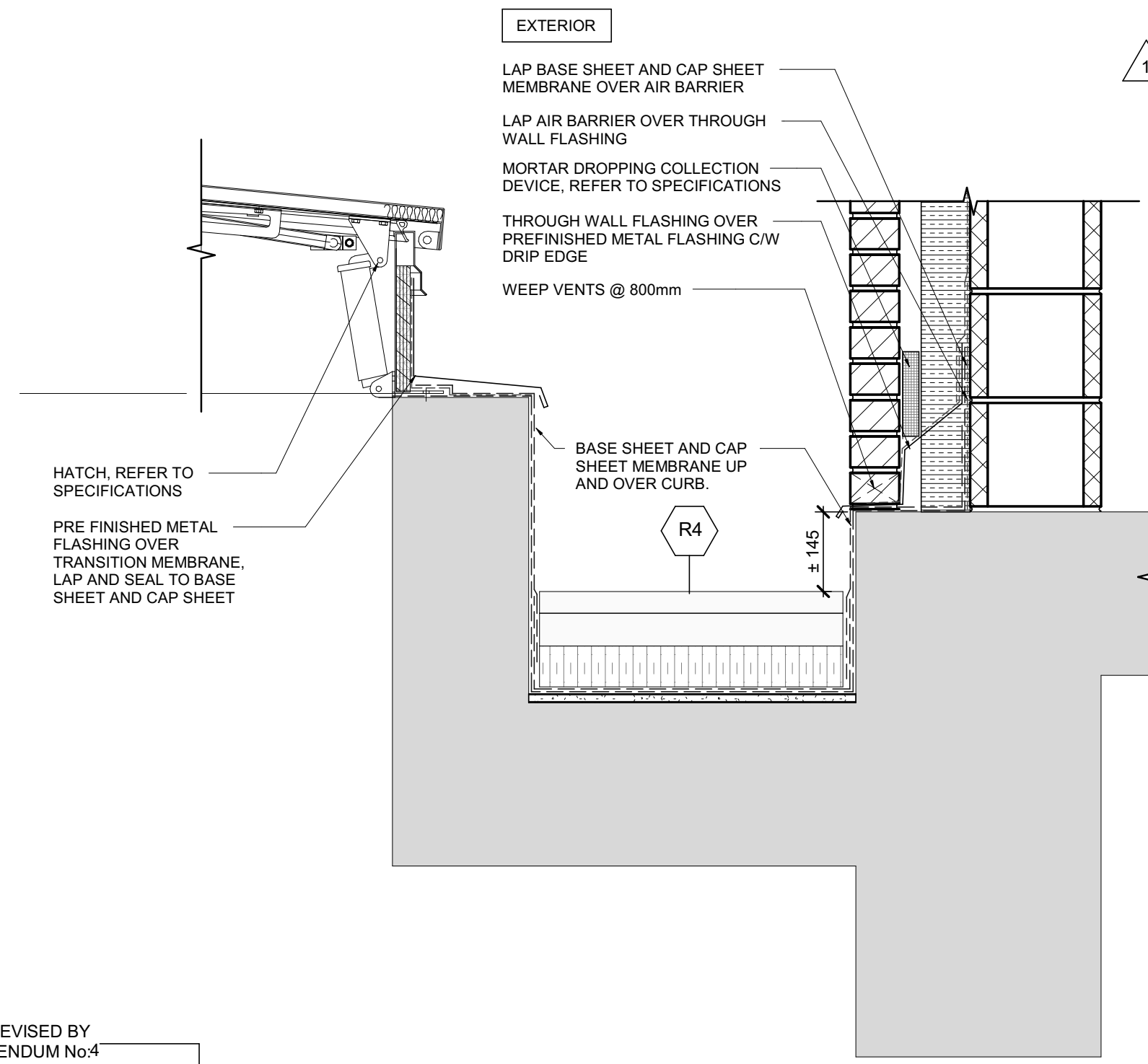
9  
A003  
TYPICAL INTERIOR DOOR JAMB @ CONCRETE BLOCK

SCALE : 1 : 10



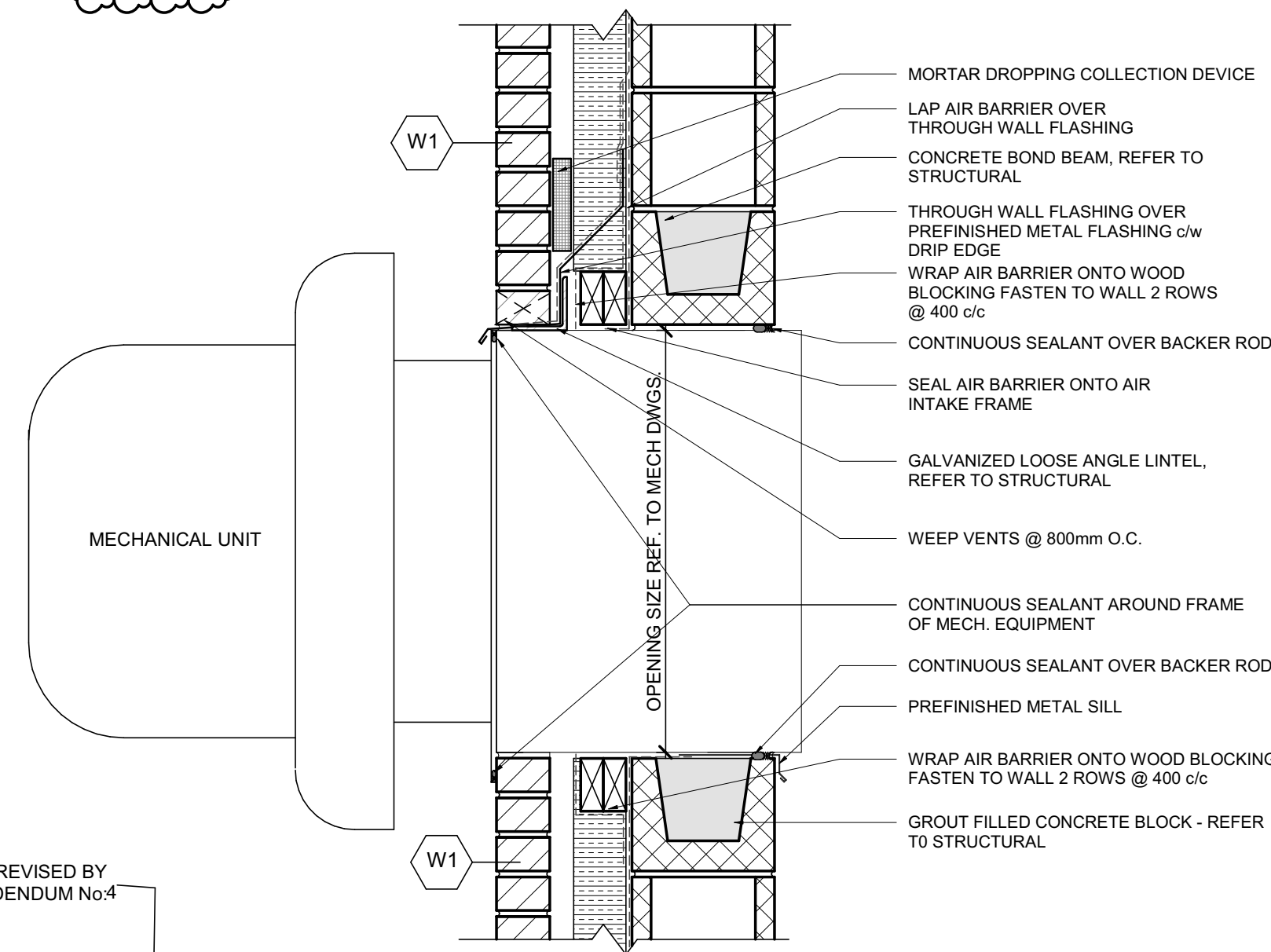
7  
A003  
GRAVEL ROOF DETAIL @DOOR THRESHOLD

SCALE : 1 : 10



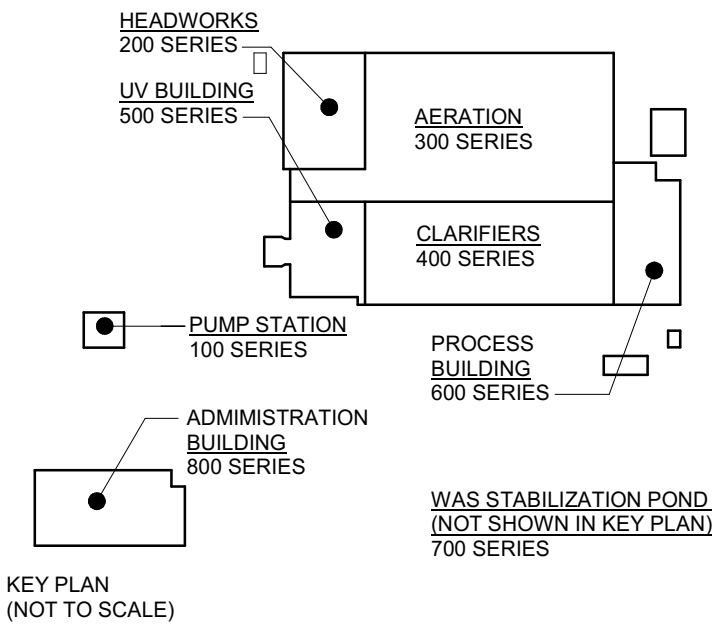
8  
A003  
FLOOR HATCH DETAIL @ABOVE GRADE WALL

SCALE : 1 : 10



10  
A003  
MECH. FAN SECTION DETAIL

SCALE : 1 : 10



DESIGN DOCUMENTS HEREIN HAVE BEEN DESIGNED UNDER THE ONTARIO BUILDING CODE 2012.

1	ISSUED FOR ADDENDUM 004	28/05/2025
0	ISSUED FOR TENDER	25/04/2025

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.



PROJECT: BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES  
100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DESIGN: SC/KA	DRAWING #:
DRAWN: NP	A003
CHECKED: HB/SC	
JLR #:	32296-001



Figure 10: Standard Door Schedule Symbols. The figure displays ten diagrams (TYPE DE1 to TYPE DE10) illustrating various door configurations and their dimensions. Each diagram includes labels for components like 'REFER TO DOOR SCHEDULE', 'GL LITE', 'REMOVABLE TRANSOM PANEL', and 'GL TRANSOM'. Dimensions are provided in millimeters (e.g., 200, 750, 150). A note on the right states 'AS REVISED BY ADDENDUM No.4'.

1. REFER TO DOOR AND FRAME SCHEDULE FOR DOOR HEIGHTS AND WIDTHS.
2. TEMPERED GLAZING IN ALL INTERIOR DOORS, UNLESS OTHERWISE NOTED.
3. INSULATED TEMPERED GLAZING IN EXTERIOR DOORS AND TRANSOMS
4. FIRE RATED GLAZING IN ALL FIRE RATED DOORS, REFER TO SCHEDULE.
5. DOORS IN FIRE RATED ASSEMBLIES TO BE SMOKE SEALED.
6. PROVIDE DOOR RESTRAINT SYSTEM FOR ALL OVERHEAD DOORS, BY PRO-PORTES (WWW.PRO-PORTES.COM). SYSTEM TO BE INTERLOCKED WITH OPERATOR MOTOR IN ORDER TO SHUT OFF POWER TO THE OPERATOR WHEN RESTRAINT SYSTEM IS ENGAGED.
7. REFER TO SPECIFICATIONS FOR GLAZING DETAILS.

Technical drawings of six window frame types (FE1 to FE6) showing dimensions and labels.

**FE1:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 50 unit width/height offset.

**FE2:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 65 unit width/height offset.

**FE3:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 50 unit width/height offset. Includes a label GL SIDELITE.

**FE4:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 65 unit width/height offset. Includes a label GL TRANSOM.

**FE5:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 65 unit width/height offset. Includes a label LOUVRE.

**FE6:** Dimensions include WIDTH TO SUIT, HEIGHT TO SUIT, and a 65 unit width/height offset. Includes labels GL TRANSOM and LOUVRE.

HATCH SCHEDULE 1			
Building	HATCH NUMBER	HATCH SIZE	REMARKS
PROCESS BUILDING	H3	1900 x 800	REFER TO SPECIFICATIONS

		FLOOR		WALLS								CEILING				
ROOM No.	NAME	FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	HEIGHT	FIRE RATING	REMARKS
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
200	SCREEN AND DEGRIT ROOM	SC	-	CB	-	CB	-	CB	-	CB	-	ES	-	-	-	
201	ELECTRICAL ROOM	EP	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
202	MECHANICAL ROOM	SC	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
203	SCREENINGS BIN ROOM	SC	-	CB	-	CB	-	CB	-	CB	-	ES	-	-	-	
301	TUNNEL	SC	-	EC	EC	EC	EC	EC	EC	EC	EC	ES	-	-	-	
500	UV DISINFECTION CHANNEL	SC	-	CB	-	CB	-	CB	-	CB	-	ES	-	-	-	
501	ELECTRICAL ROOM	EP	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
502	EXIT STAIRS	SC	-	CB	-	CB	-	CB	-	CB	-	ES	-	-	-	
503	MECHANICAL ROOM	SC	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
504	ELECTRICAL ROOM BASEMENT LEVEL	SC	-	CB	-	CB	-	CB	-	CB	-	ES	-	-	-	
600	BLOWER ROOM	SC	-	CB	-AP	CB	-AP	CB	-AP	CB	-AP	ES	-	-	-	REFER TO PLAN AND WALL SECTION FOR EXTENT OF AP
601	MECHANICAL ROOM	SC	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
602	MECHANICAL ROOM	SC	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
603	ELECTRICAL ROOM	EP	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
604	PROCESS BUILDING BASEMENT	SC	-	CB	PT	CB	PT	CB	PT	CB	PT	ES	-	-	-	
605	EXIT STAIRS	SC	-	EC/CB	-	EC/CB	-	EC/CB	-	EC/CB	-	ES	-	-	-	
800	CORRIDOR	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
801	LUNCH / MEETING ROOM	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
802	OFFICE	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
803	LABORATORY	VT	RB	GBM	PT	GBM	PT	GBM	PT	GBM	PT	ACT	-	2700	-	
804	UNIVERSAL WASHROOM	CT	CT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	ACT	-	2700	-	REFER TO INTERIOR ELEVATIONS FOR EXTENT OF CT
805	DOCUMENT ROOM	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
806	JANITORY'S CLOSET	SC	RB	GBM	PT	GBM	PT	GBM	PT	GBM	PT	ES	-	-	-	
807	MEN'S WASHROOM / CHANGE ROOM	CT	CT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	GBM / ACT	-	2700	-	REFER TO INTERIOR ELEVATIONS FOR EXTENT OF CT
808	WOMEN'S WASHROOM / CHANGE ROOM	CT	CT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	CT/GWB	-PT	GBM / ACT	-	2700	-	REFER TO INTERIOR ELEVATIONS FOR EXTENT OF CT
809	ELECTRICAL ROOM	EP	RB	GB	PT	GB	PT	GB	PT	GB	PT	ES	-	-	-	
810	MECHANICAL ROOM	SC	RB	GB	PT	GB	PT	GB	PT	GB	PT	ES	-	-	-	
812	SCADA ROOM	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
813	IT CLOSET	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
814	CONTROL ROOM	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
815	PHOTOCOPIER AREA	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	
816	LAUNDRY ROOM	VT	RB	GBM	PT	GBM	PT	GBM	PT	GBM	PT	ACT	-	2700	-	
817	VESTIBULE	VT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT	-	2700	-	

ACT	ACOUSTIC CEILING TILE
CB	CONCRETE BLOCK
EC	EXPOSED CONCRETE
EP	EPOXY FINISH
ES	EXPOSED STRUCTURE
PT	PAINT
SC	SEALED CONCRETE
GB	GYPSUM BOARD
GBM	MOISTURE RESISTANT GYPSUM BOARD
VT	VINYL TILE
CT	CERAMIC TILE
RB	RUBBER BASE
AP	ACOUSTIC PANEL

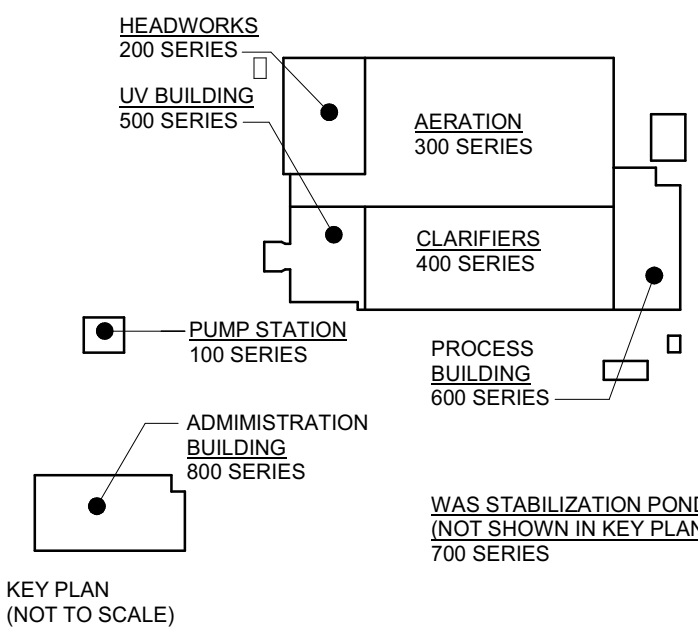
1. FLOOR AND WALL FINISH TO BE COMPLETED PRIOR TO EQUIPMENT AND SERVICES INSTALLATION. CONTRACTOR TO PATCH AND MAKE PROPER FINISHES AFTER INSTALLATION OF ALL EQUIPMENT AND SERVICES.
2. DO NOT PAINT PORTIONS OF WALL THAT ARE ADJACENT TO TANKS OR CHANNELS.

	Building	DOOR NUMBER	LOCATION	DOOR				FRAME		FIRE RATING	HARDWARE GROUP	REMARKS
				DOOR SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL			
HEADWORKS BUILDING	D201	SCREEN AND DEGRIT ROOM	1050 x 2135 x 45	DE2	IHM	PT	FE2	PS	PT	1.5H	GROUP 14	
HEADWORKS BUILDING	D202	ELECTRICAL ROOM	1200 x 3100 x 45	DE9	IHM	PT	FE2	PS	PT	1.5H	GROUP 14	DOOR WITH REMOVABLE TRANSOM
HEADWORKS BUILDING	D203	MECHANICAL ROOM	2 - 915 x 2135 x 45	DE4	IHM	PT	FE4	PS	PT	-	GROUP 2A	DOOR WITH LOUVER TRANSOM, REFER TO MECHANICAL
HEADWORKS BUILDING	D204	SCREENINGS BIN AREA	3048 x 3200	DE7	IHM	PT	-	PS	PT	-	-	
HEADWORKS BUILDING	D205	SCREENINGS BIN AREA	915 x 2135 x 45	DE2	IHM	PT	FE4	PS	PT	-	GROUP 1	
TUNNEL	D301	PROCESS BUILDING BASEMENT	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	45 MIN	GROUP 15	
UV BUILDING	D501	EXIT STAIRS	915 x 2135 x 45	DE1	IHM	PT	FE4	PS	PT	1.5H	GROUP 14	
UV BUILDING	D502	UV DISINFECTION CHANNEL	2 - 915 x 3135 x 45	DE10	IHM	PT	FE2	PS	PT	-	GROUP 2A	DOOR WITH REMOVABLE TRANSOM
UV BUILDING	D503	ELECTRICAL ROOM	1200 x 2135 x 45	DE9	IHM	PT	FE2	PS	PT	-	GROUP 1	DOOR WITH REMOVABLE TRANSOM
UV BUILDING	D504	EXIT STAIRS	1050 x 2135 x 45	DE1	HM	PT	FE2	PS	PT	45 MIN	GROUP 15	
UV BUILDING	D505	MECHANICAL ROOM	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	-	GROUP 16	
UV BUILDING	D506	EXIT STAIRS BASEMENT	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	1.5H	GROUP 15	
UV BUILDING	D507	BASEMENT TUNNEL	1050 x 2135 x 45	DE1	HM	PT	FE2	PS	PT	1.5H	GROUP 5	
PROCESS BUILDING	D601	CHEMICAL ROOM	915 x 2135 x 45	DE2	IHM	PT	FE4	PS	PT	-	GROUP 1	
PROCESS BUILDING	D602	EXIT STAIRS GROUND FLOOR	915 x 2135 x 45	DE1	IHM	PT	FE4	PS	PT	-	GROUP 1	
PROCESS BUILDING	D603	BLOWER ROOM	2 - 1200 x 2615 x 45	DE3	IHM	PT	FE5	PS	PT	-	GROUP 2A	DOOR WITH LOUVER TRANSOM, REFER TO MECHANICAL
PROCESS BUILDING	D604	ELECTRICAL ROOM	1200 x 2135 x 45	DE9	IHM	PT	FE2	PS	PT	-	GROUP 1	DOOR WITH REMOVABLE TRANSOM
PROCESS BUILDING	D605	MECHANICAL ROOM	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	-	GROUP 4	
PROCESS BUILDING	D606	MECHANICAL ROOM	2 - 915 x 2135 x 45	DE4	IHM	PT	FE5	PS	PT	-	GROUP 2A	DOOR WITH LOUVER TRANSOM, REFER TO MECHANICAL
PROCESS BUILDING	D607	EXIT STAIRS GROUND FLOOR	915 x 2135 x 45	DE1	HM	PT	FE4	PS	PT	45 MIN	GROUP 15	
PROCESS BUILDING	D608	ELECTRICAL ROOM	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	-	GROUP 4	
PROCESS BUILDING	D609	EXIT STAIRS BASEMENT	1050 x 2135 x 45	DE1	HM	PT	FE2	PS	PT	45 MIN	GROUP 15	
PROCESS BUILDING	D610	EXIT STAIRS BASEMENT	1050 x 2135 x 45	DE1	HM	PT	FE2	PS	PT	45 MIN	GROUP 15	
ADMINISTRATION BUILDING	D801	ELECTRICAL ROOM	1050 x 2735 x 45	DE9	IHM	PT	FE2	PS	PT	-	GROUP 1	DOOR WITH REMOVABLE TRANSOM
ADMINISTRATION BUILDING	D802	CORRIDOR	1050 x 2135 x 45	DE2	IHM	PT	FE2	PS	PT	-	GROUP 1	
ADMINISTRATION BUILDING	D803	VESTIBULE	1050 x 2150 x 45	DE8	AN	-	FE3	AN	-	-	GROUP 10	
ADMINISTRATION BUILDING	D804	LAUNDRY ROOM	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	-	GROUP 4	
ADMINISTRATION BUILDING	D805	LUNCH ROOM	1050 x 2135 x 45	DE1	HM	PT	FE3	PS	PT	-	GROUP 4	
ADMINISTRATION BUILDING	D806	OFFICE	1050 x 2135 x 45	DE1	HM	PT	FE3	PS	PT	-	GROUP 3	
ADMINISTRATION BUILDING	D807	LABORATORY	1050 x 2135 x 45	DE1	HM	PT	FE3	PS	PT	-	GROUP 3	
ADMINISTRATION BUILDING	D808	UNIVERSAL WASHROOM	1050 x 2135 x 45	DE5	HM	PT	FE1	PS	PT	-	GROUP 8	DOOR GRILLE. REFER TO MECHANICAL
ADMINISTRATION BUILDING	D809	DOCUMENT ROOM	1050 x 2135 x 45	DE6	HM	PT	FE1	PS	PT	-	GROUP 16	
ADMINISTRATION BUILDING	D810	MENS WASHROOM	1050 x 2135 x 45	DE5	HM	PT	FE1	PS	PT	-	GROUP 7	DOOR GRILLE. REFER TO MECHANICAL
ADMINISTRATION BUILDING	D811	JANITORS CLOSET	915 x 2135 x 45	DE5	HM	PT	FE1	PS	PT	45 MIN	GROUP 6	DOOR GRILLE. REFER TO MECHANICAL
ADMINISTRATION BUILDING	D812	WOMENS WASHROOM	1050 x 2135 x 45	DE5	HM	PT	FE1	PS	PT	-	GROUP 7	DOOR GRILLE. REFER TO MECHANICAL
ADMINISTRATION BUILDING	D813	MECHANICAL ROOM	1050 x 2135 x 45	DE2	HM	PT	FE2	PS	PT	-	GROUP 16	
ADMINISTRATION BUILDING	D814	VEST										

HM	HOLLOW METAL DOOR
IHM	INSULATED HOLLOW METAL DOOR
PT	PAINT
PS	PRESSED STEEL
AN	ANODIZED ALUMINIUM

WINDOW No.	WIDTH	HEIGHT	QUANTITY	FRAME TYPE	FRAME MATERIAL	SILL HEIGHT	COMMENTS
GL1	1100	1200	8	AN	AN	REFER TO ELEVATIONS	--
GL2	2000	1200	1	AN	AN	1000	-

## AN ANODIZED ALUMINIUM



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BUILDING CODE 2012.

1	ISSUED FOR ADDENDUM 004	28/05/2020
0	ISSUED FOR TENDER	25/04/2020
No.	ISSUE / REVISION	DD/MM/Y

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SCALE: 1:45

**CLIENT**

CONSULTANT: [www.jlrichards.com](http://www.jlrichards.com)

CONSULTANT



JECT NORTH

PROJECT:

# BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

## DRAWING

ARCHITECTURAL  
SITE - WIDE

## SCHEDULES AND FINISHES

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

DRAWING #3

A005



**LEGEND:**

— 2hr — FIRE SEPARATION (2hr min FIRE RATING)

**WIDTH AND HEIGHT OF EXITS:**

1) THE WIDTH OF AN EXIT SHALL BE NOT LESS THAN  
- 1100mm FOR CORRIDORS AND PASSAGEWAYS  
- 900mm FOR STAIRS  
- 790mm FOR DOORWAYS

2) EVERY EXIT SHALL HAVE A CLEAR HEIGHT OVER THE CLEAR WIDTH OF THE EXIT OF NOT LESS THAN 2100mm

3) CLEAR HEIGHT OF DOORWAYS SHALL NOT BE LESS THAN 2030mm

**TRAVEL DISTANCE:**

--- SERVICE EGRESS 30 m

● START POINT

▲ EXIT POINT

BOLLARDS TYPICAL, REFER TO STRUCTURAL

GENERATOR PAD, REFER TO STRUCTURAL

AS REVISED BY ADDENDUM No.4

AS REVISED BY ADDENDUM No.4

AS REVISED BY ADDENDUM No.4

AS REVISED BY ADDENDUM No.4

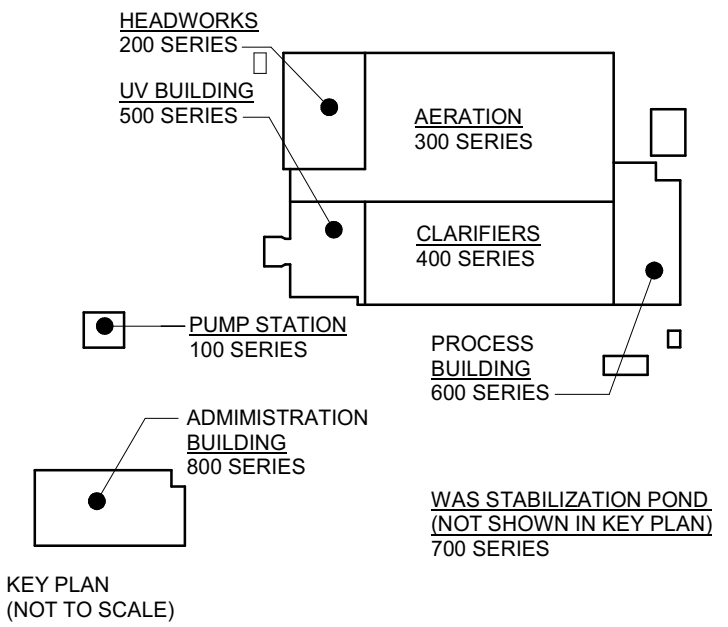
HIDDEN LINES DENOTES EXTENT OF TUNNEL BELOW

REFER TO UV BUILDING DRAWINGS SERIES A500

REFER TO AERATION DRAWINGS SERIES A300 FOR TUNNEL INFORMATION

(TUNNEL BELOW)

NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION



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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: As indicated

CLIENT:

**BRIGHTON**

CONSULTANT:

**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

2025-05-29 OF

ARCHITECTS

STEPHANIE CAMPBELL

LICENCE 9391

PROJECT NORTH

PROJECT:

**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

**ARCHITECTURAL HEADWORKS**

**GROUND FLOOR PLAN**

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

JLR #:

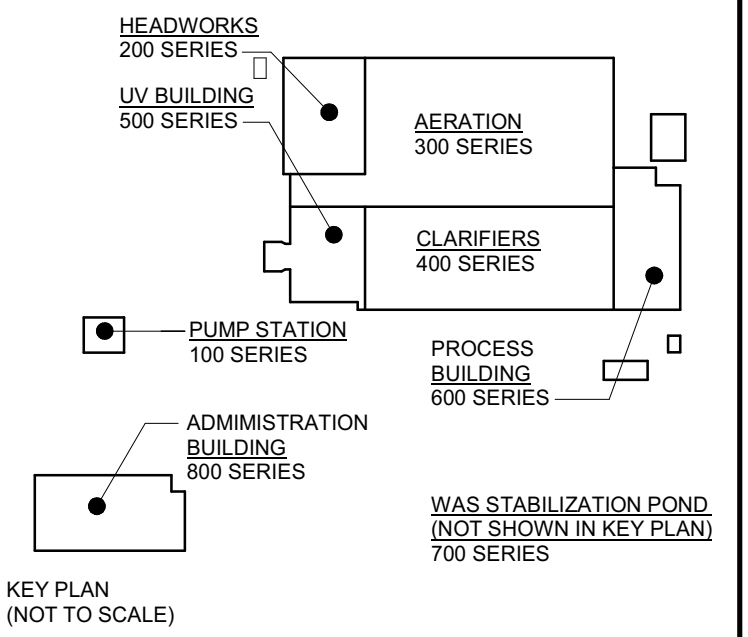
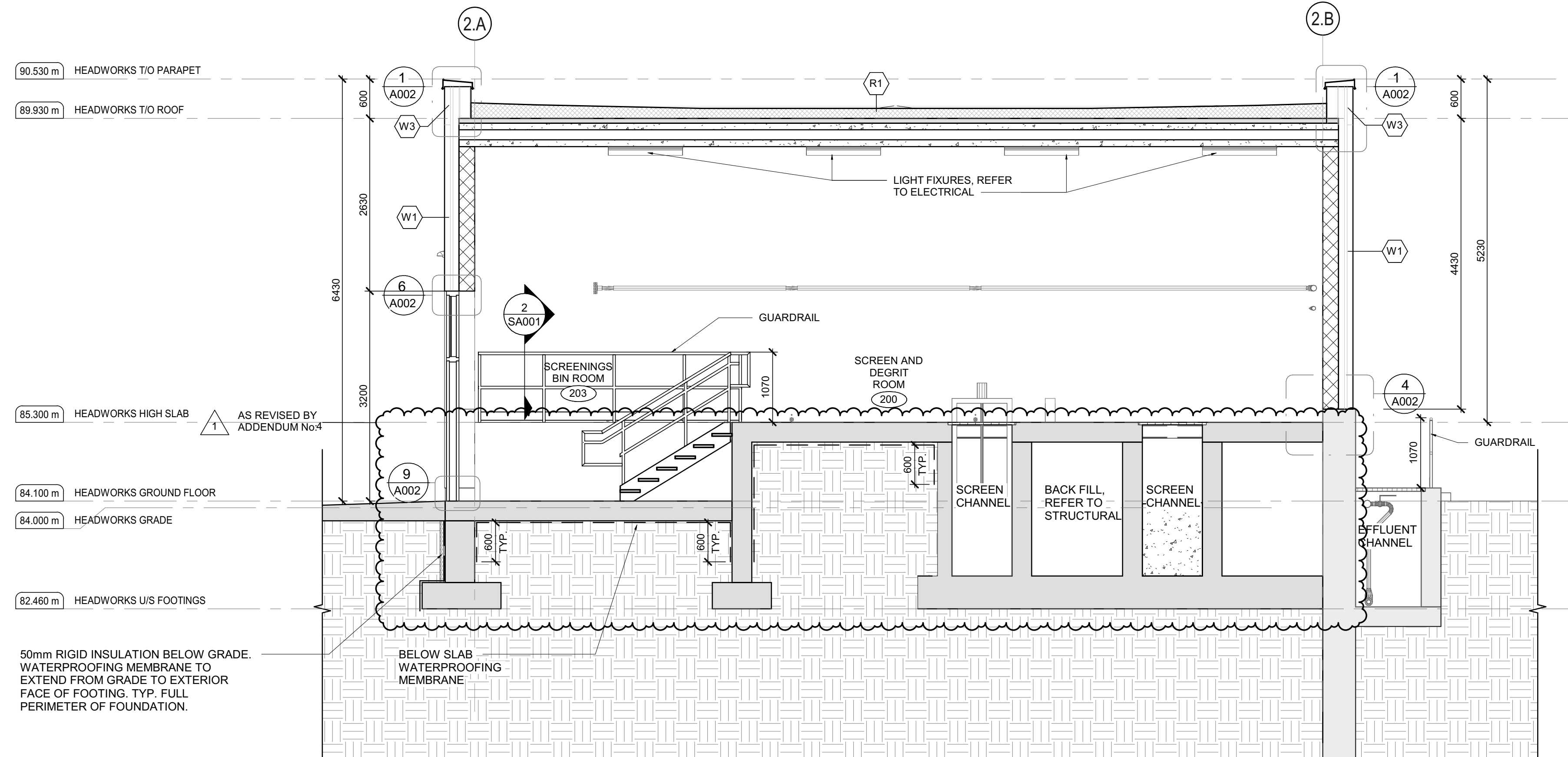
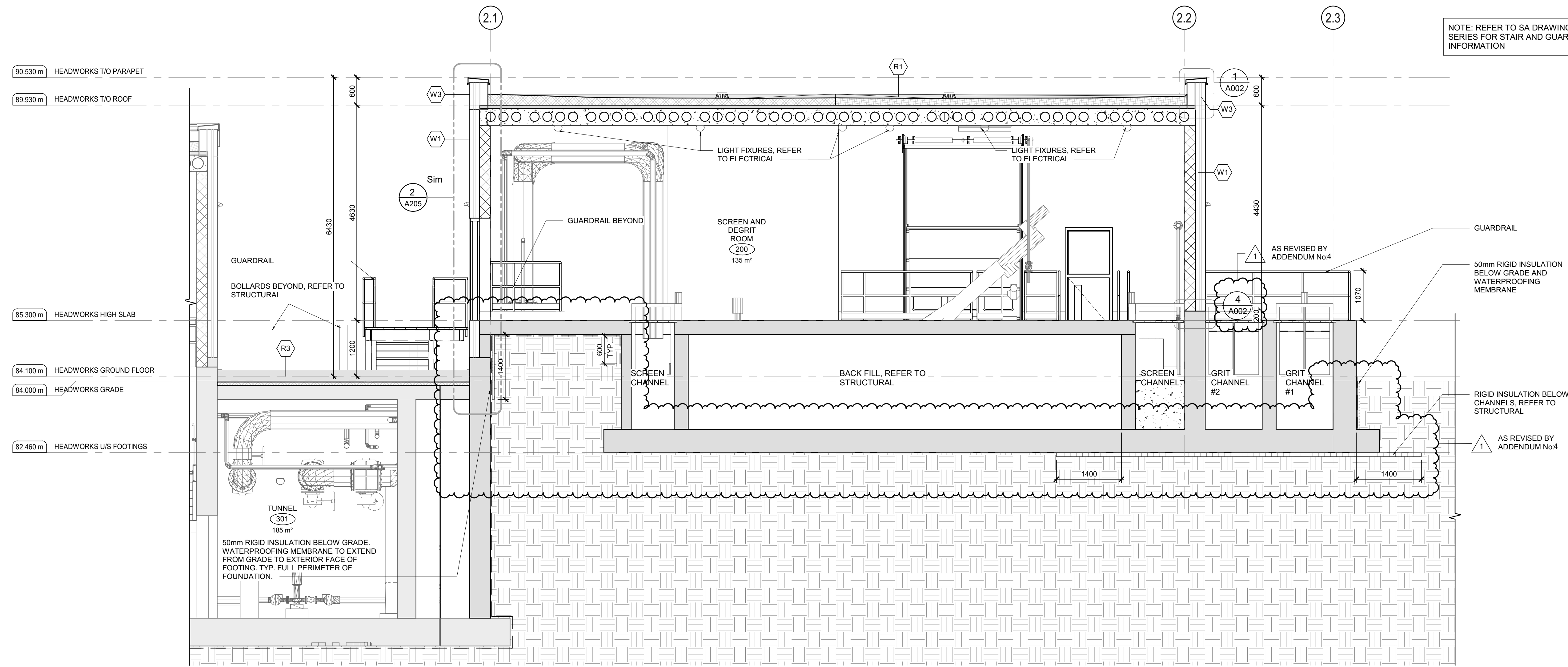
32296-001

DRAWING #:

**A201**

1 HEADWORKS GROUND FLOOR PLAN SCALE: 1:50





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SCALE: 1:50

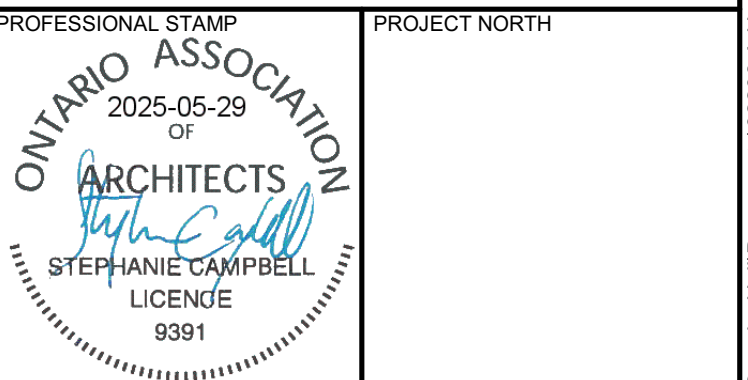
CLIENT:



CONSULTANT: www.jrichards.ca



CONSULTANT:



PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

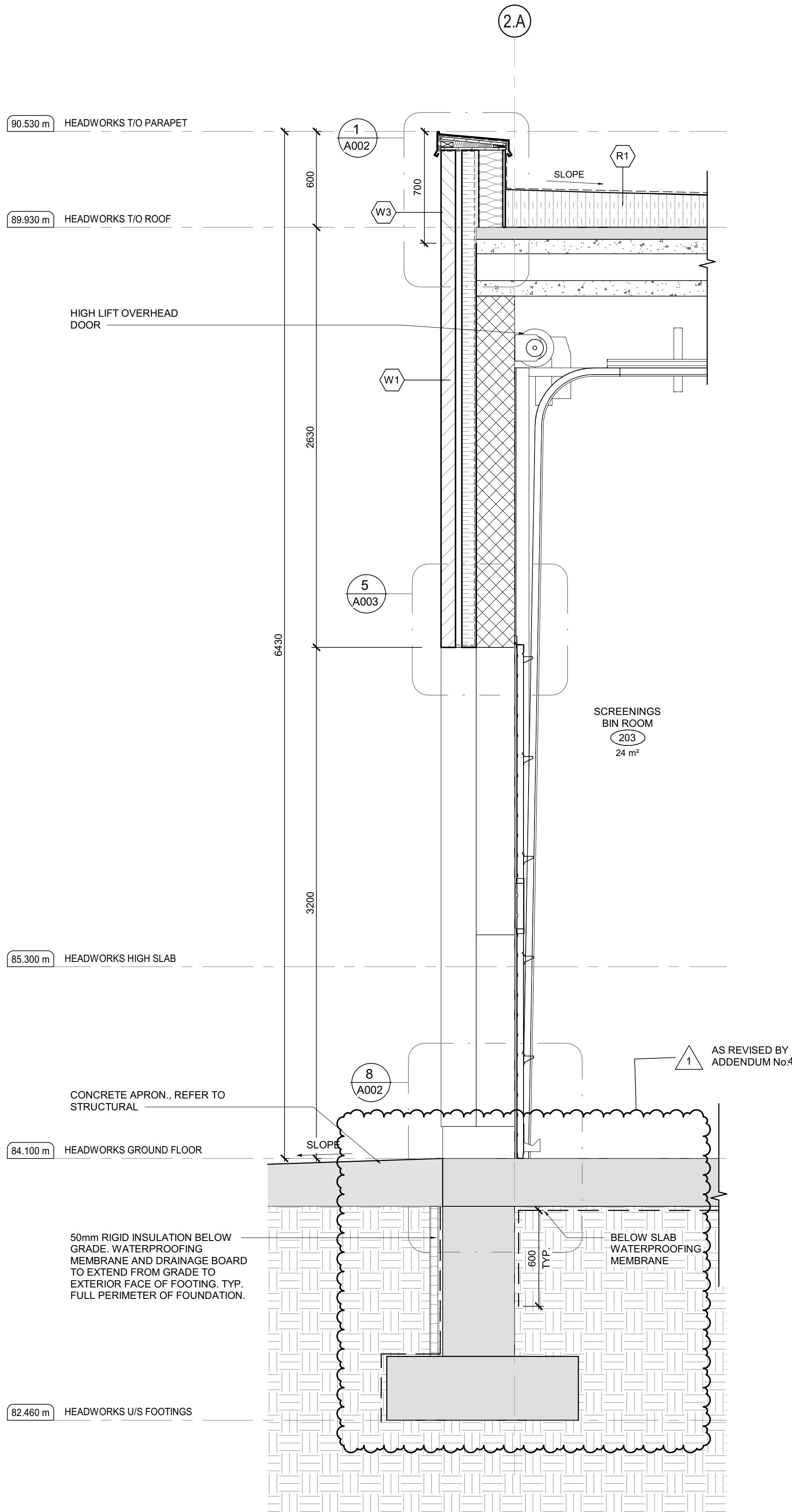
ARCHITECTURAL HEADWORKS

BUILDING SECTIONS

DESIGN: SC/KA	DRAWING #:
DRAWN: NP	A204
CHECKED: HB/SC	
JLR #:	32296-001

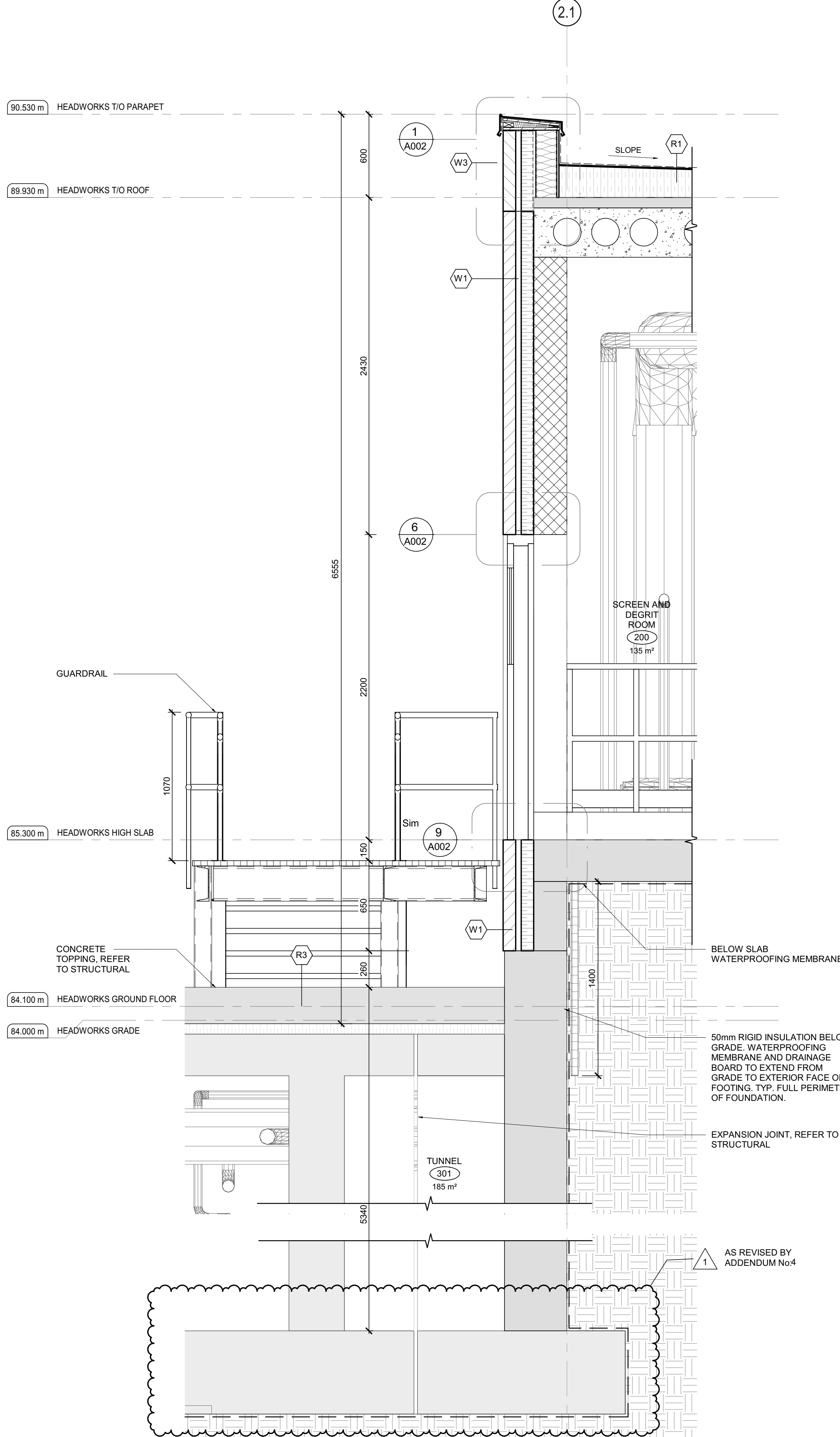
File Location: C:\Users\NParades\Documents\32296 A-Headworks R23\_NParades\Hill.rvt PLOT DATE: 28/05/2025 12:12:32 PM





HEADWORKS WALL SECTION 1

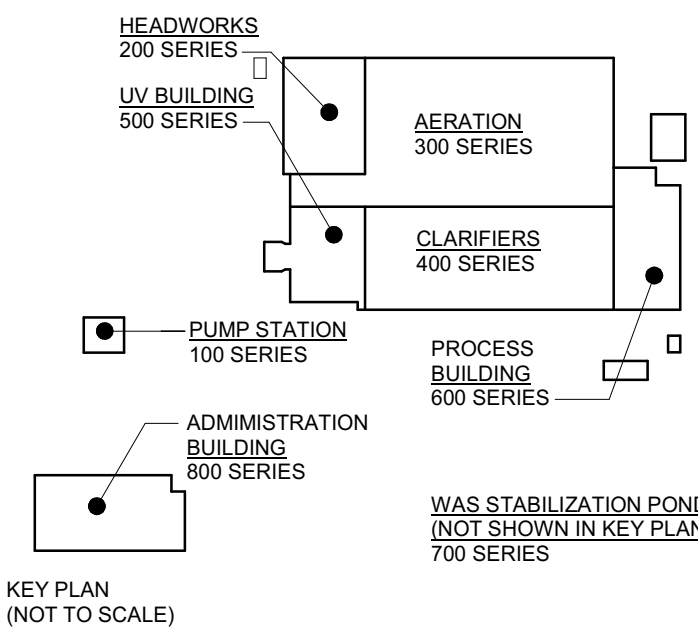
SCALE: 1:20



HEADWORKS WALL SECTION 2

SCALE: 1:20

NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION



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SCALE: 1:20

CLIENT:



CONSULTANT: www.jrichards.ca



CONSULTANT:



PROJECT NORTH

PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

ARCHITECTURAL HEADWORKS WALL SECTIONS

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

JLR #: 32296-001

DRAWING #:

A205

File Location: C:\Users\NParadesa\Documents\32296 A-Headworks R23\_NParadesa\Hill.rvt PLOT DATE: 28/05/2025 12:13:33 PM

1) THE WIDTH OF AN EXIT SHALL BE NOT LESS THAN

- 1100mm FOR CORRIDORS AND PASSAGEWAYS
- 900mm FOR STAIRS
- 790mm FOR DOORWAYS

2) EVERY EXIT SHALL HAVE A CLEAR HEIGHT OVER THE CLEAR WIDTH OF THE EXIT OF NOT LESS THAN 2100mm

3) CLEAR HEIGHT OF DOORWAYS SHALL NOT BE LESS THAN 2030mm

— — — — SERVICE EGRESS

● START POINT

 EXIT POINT

—45min— FIRE SEPARATION  
(45min FIRE RATING)

HEADWORKS  
200 SERIES

UV BUILDING  
500 SERIES

AERATION  
300 SERIES

CLARIFIERS  
400 SERIES

PUMP STATION  
100 SERIES

ADMINISTRATION  
BUILDING  
800 SERIES

PROCESS BUILDING  
600 SERIES

WAS STABILIZATION POND  
(NOT SHOWN IN KEY PLAN)  
700 SERIES

KEY PLAN  
(NOT TO SCALE)

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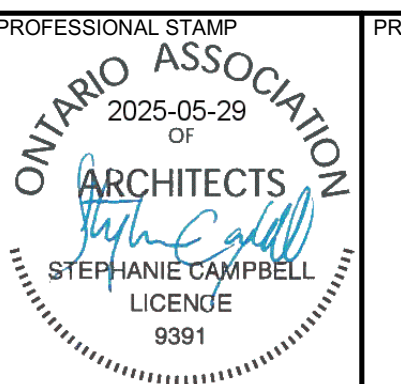
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1 : 100

CLIENT:

CONSULTANT: [www.jlrichards.ca](http://www.jlrichards.ca)

CONSULTANT:



## PROJECT NORTH



PROJECT:

## BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

**DRAWING:**

ARCHITECTURAL  
AERATION  
TUNNEL FLOOR PLAN

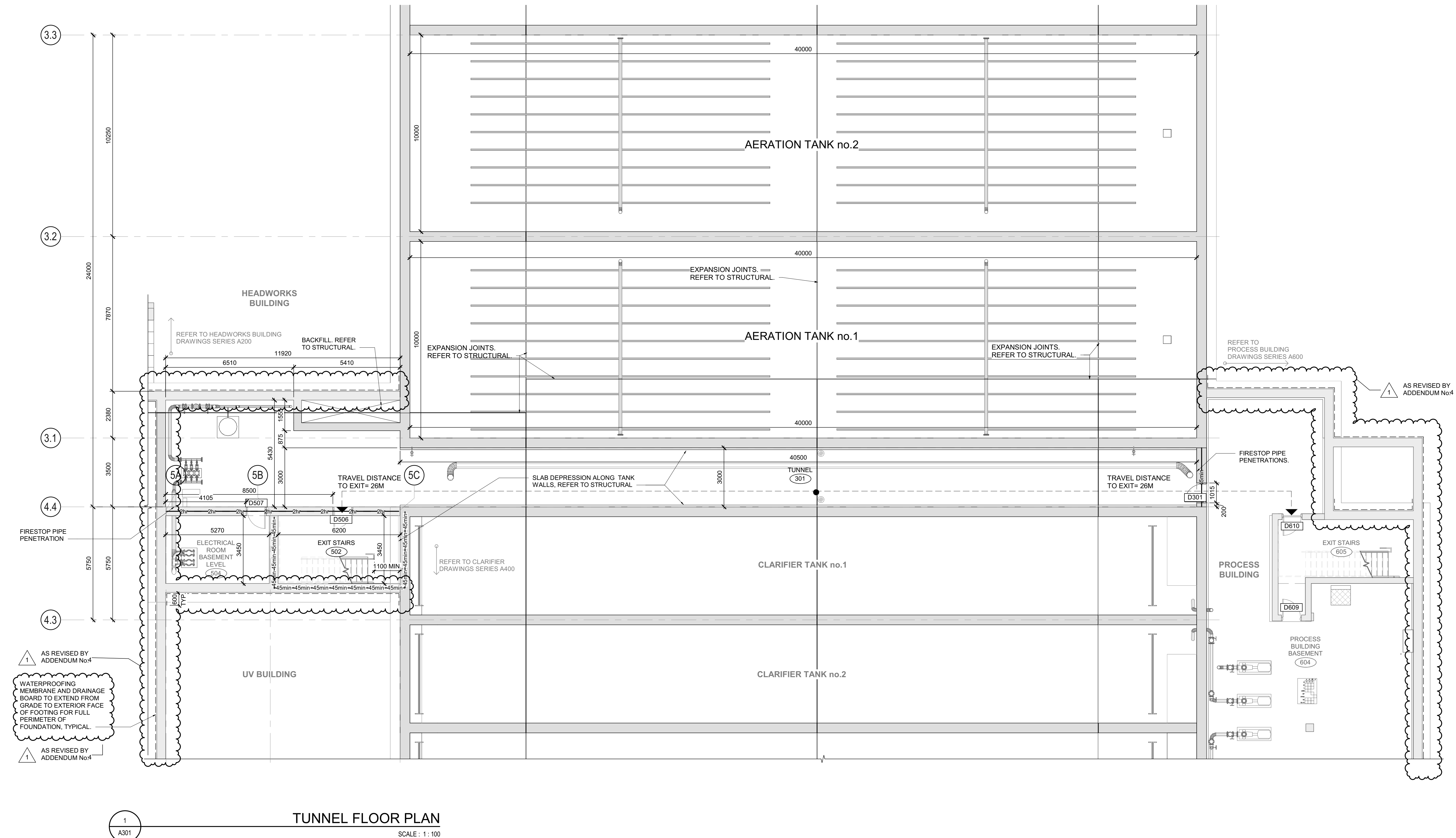
DESIGN: SC/KA

DRAWN: ND

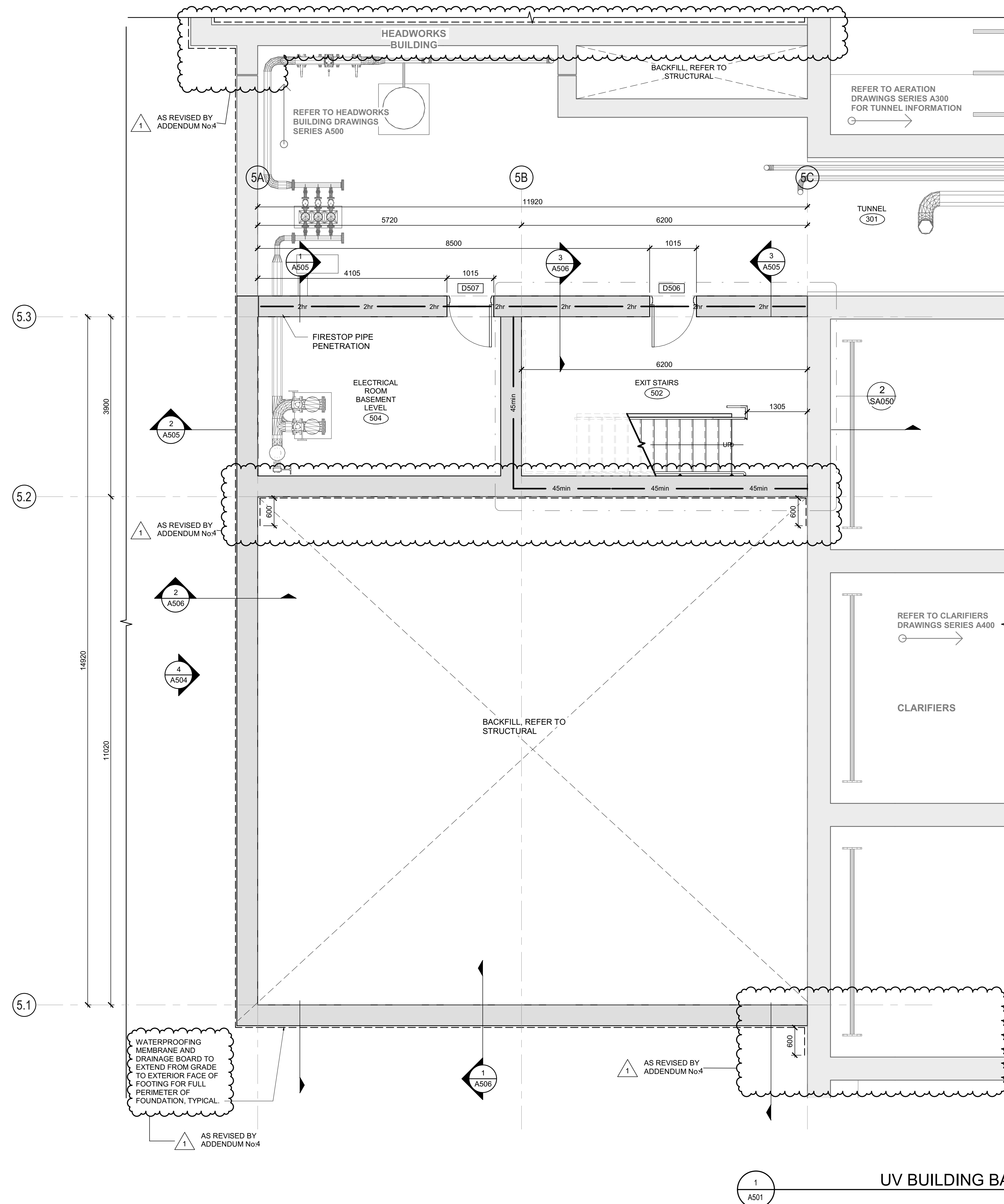
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DRAWING #:

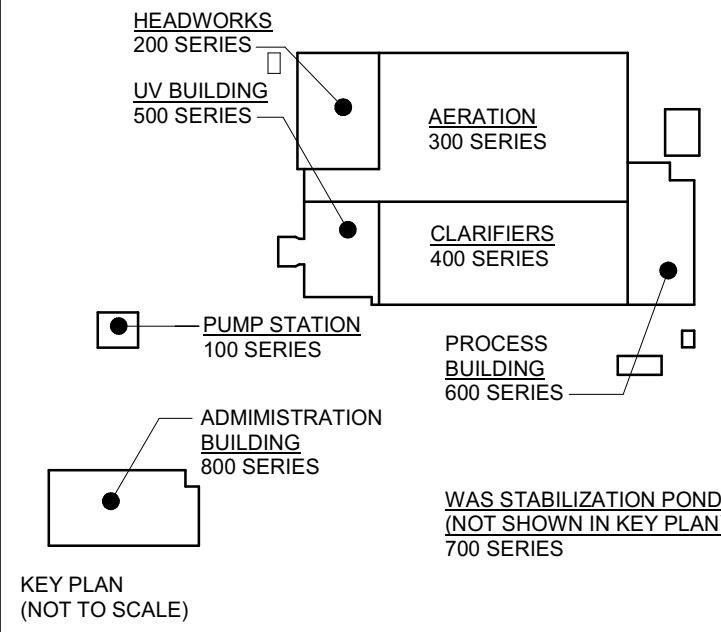
A301







NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION



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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: 1:50

CLIENT:



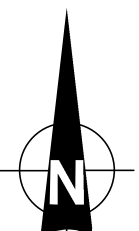
CONSULTANT: www.jrichards.ca



CONSULTANT:



PROJECT NORTH



PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

ARCHITECTURAL  
UV BUILDING  
BASEMENT PLAN

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

JLR #: 32296-001

DRAWING #:

A501

File Location: C:\Users\NParades\OneDrive\Documents\32296 AUV Building R22\_NParades\Hall.rvt  
PLOT DATE: 28/05/2025 2:17 PM



**LEGEND:**

45min FIRE SEPARATION (45min FIRE RATING)

**WIDTH AND HEIGHT OF EXITS:**

1) THE WIDTH OF AN EXIT SHALL BE NOT LESS THAN  
- 1100mm FOR CORRIDORS AND PASSAGEWAYS  
- 900mm FOR STAIRS  
- 790mm FOR DOORWAYS

2) EVERY EXIT SHALL HAVE A CLEAR HEIGHT OVER THE CLEAR WIDTH OF THE EXIT OF NOT LESS THAN 2100mm

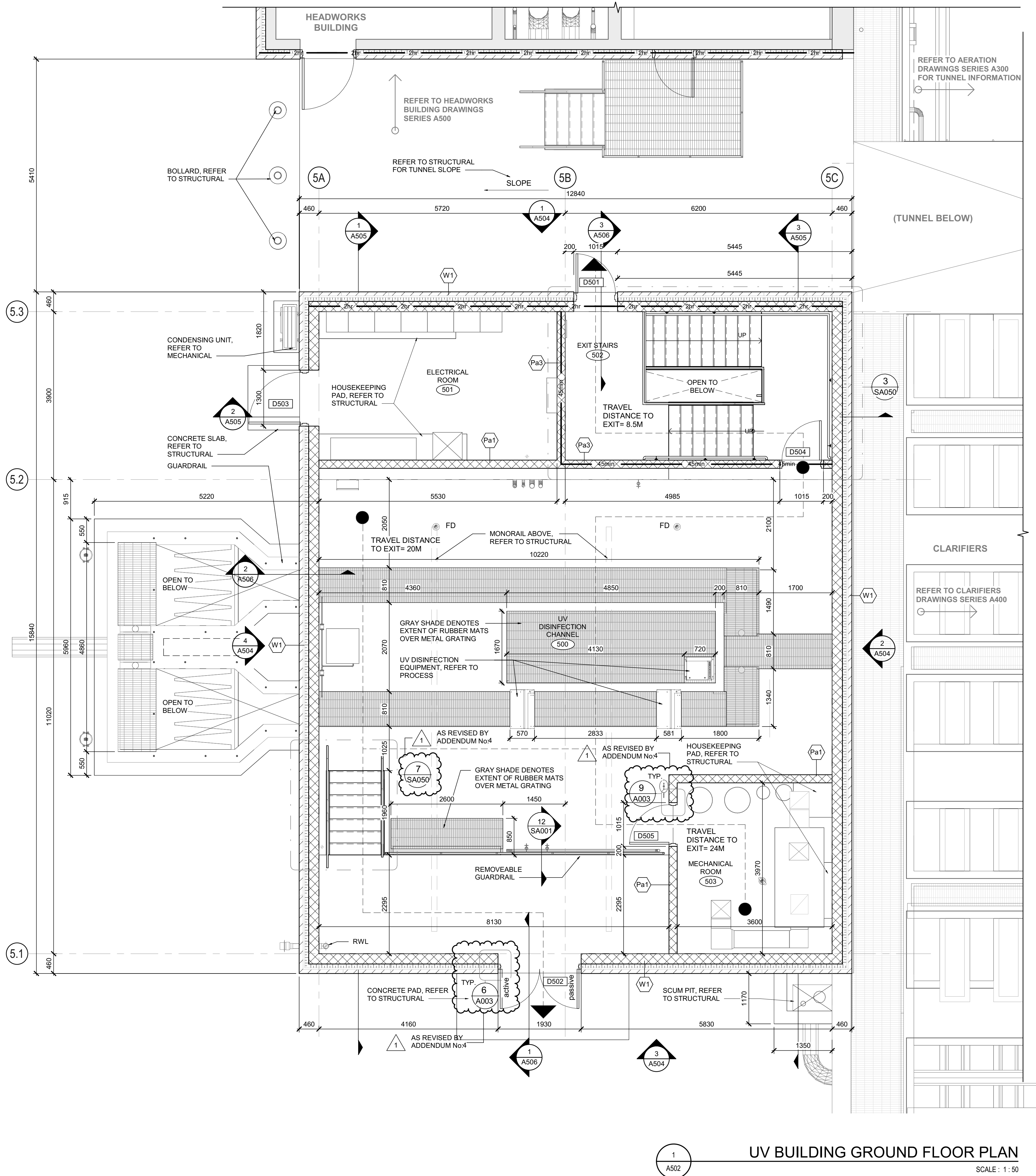
3) CLEAR HEIGHT OF DOORWAYS SHALL NOT BE LESS THAN 2030mm

**TRAVEL DISTANCE:**

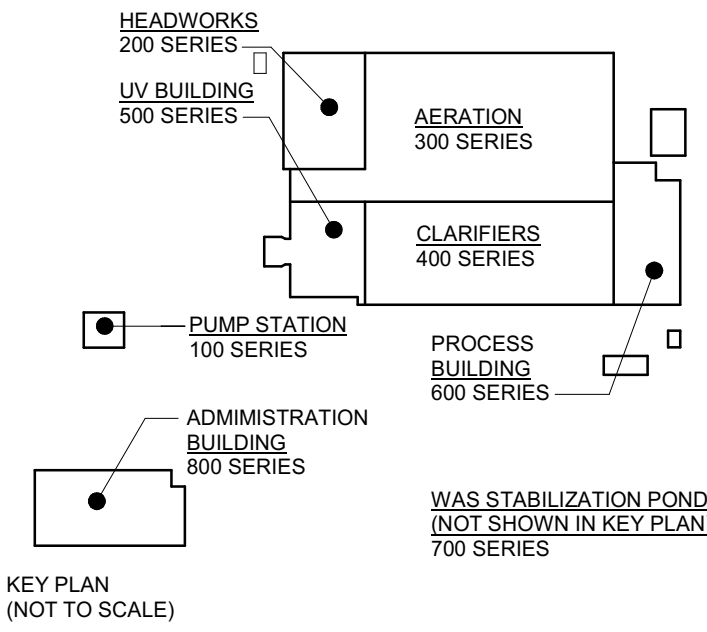
--- SERVICE EGRESS 30 m

● START POINT

▲ EXIT POINT



NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION



DESIGN DOCUMENTS HEREIN HAVE BEEN DESIGNED UNDER THE ONTARIO BUILDING CODE 2012.

1	ISSUED FOR ADDENDUM 4	28/05/2025
0	ISSUED FOR TENDER	25/04/2025
No.	ISSUE / REVISION	DDMMYY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: As indicated

CLIENT:



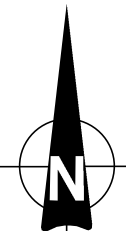
CONSULTANT: www.jrichards.ca



CONSULTANT:



PROJECT NORTH



PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

ARCHITECTURAL  
UV BUILDING

GROUND FLOOR PLAN

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

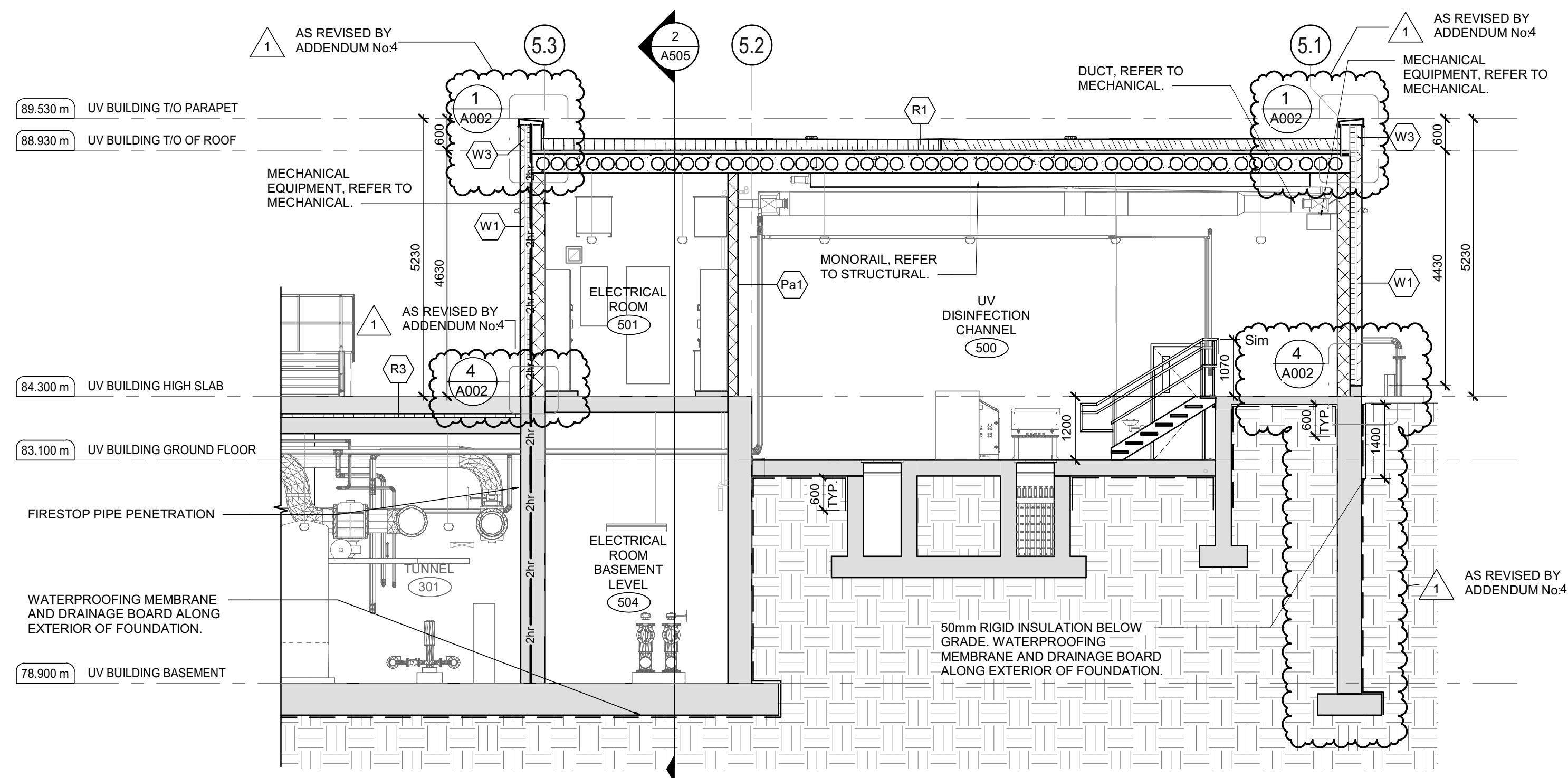
JLR #: 32296-001

DRAWING #:

A502

File Location: C:\Users\NParades\Documents\32296 AUV Building R23\_NParades\Hall.rvt PLOT DATE: 28/05/2025 2:17:18 PM

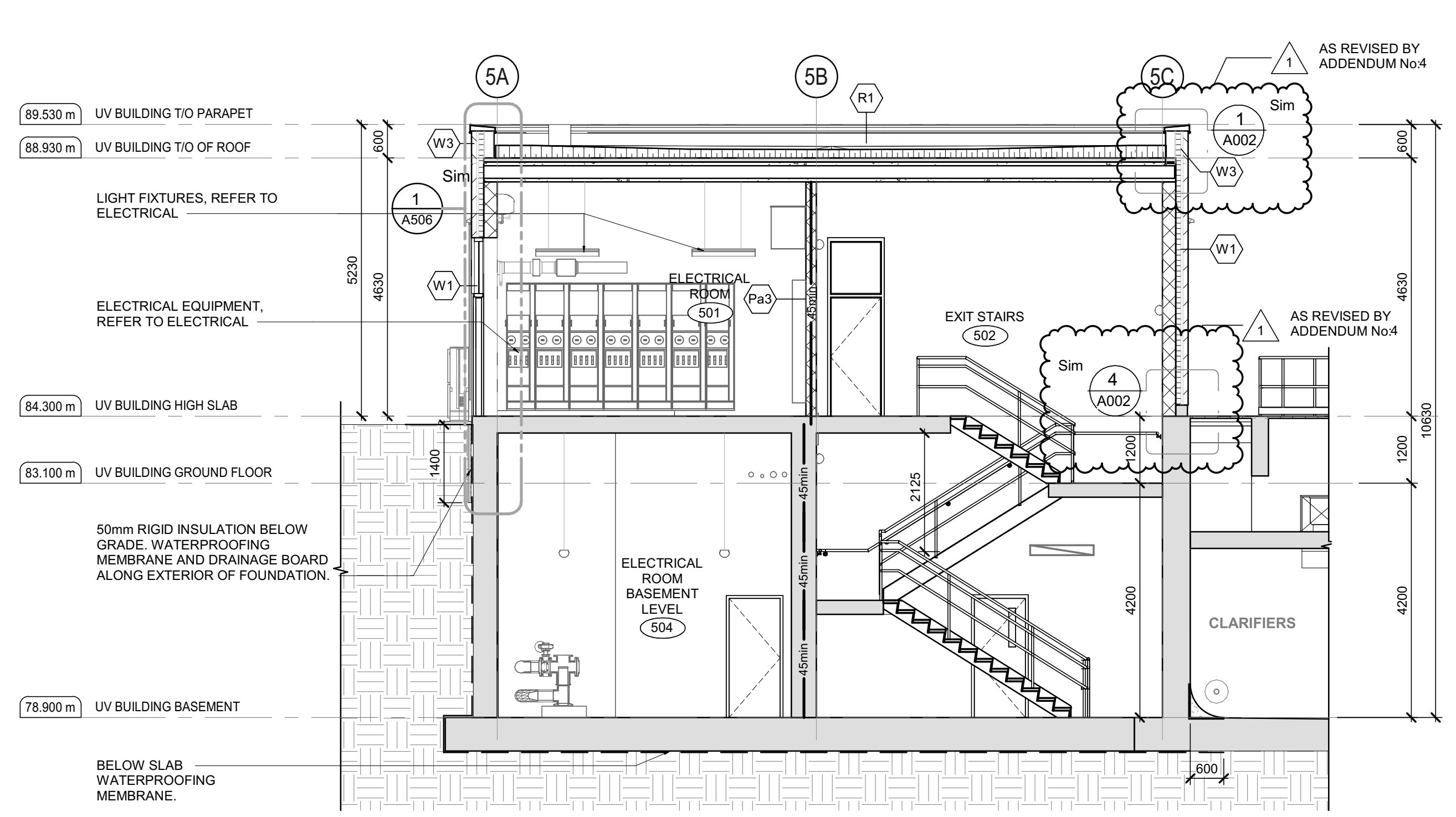




1  
A505

**BUILDING SECTION 1**

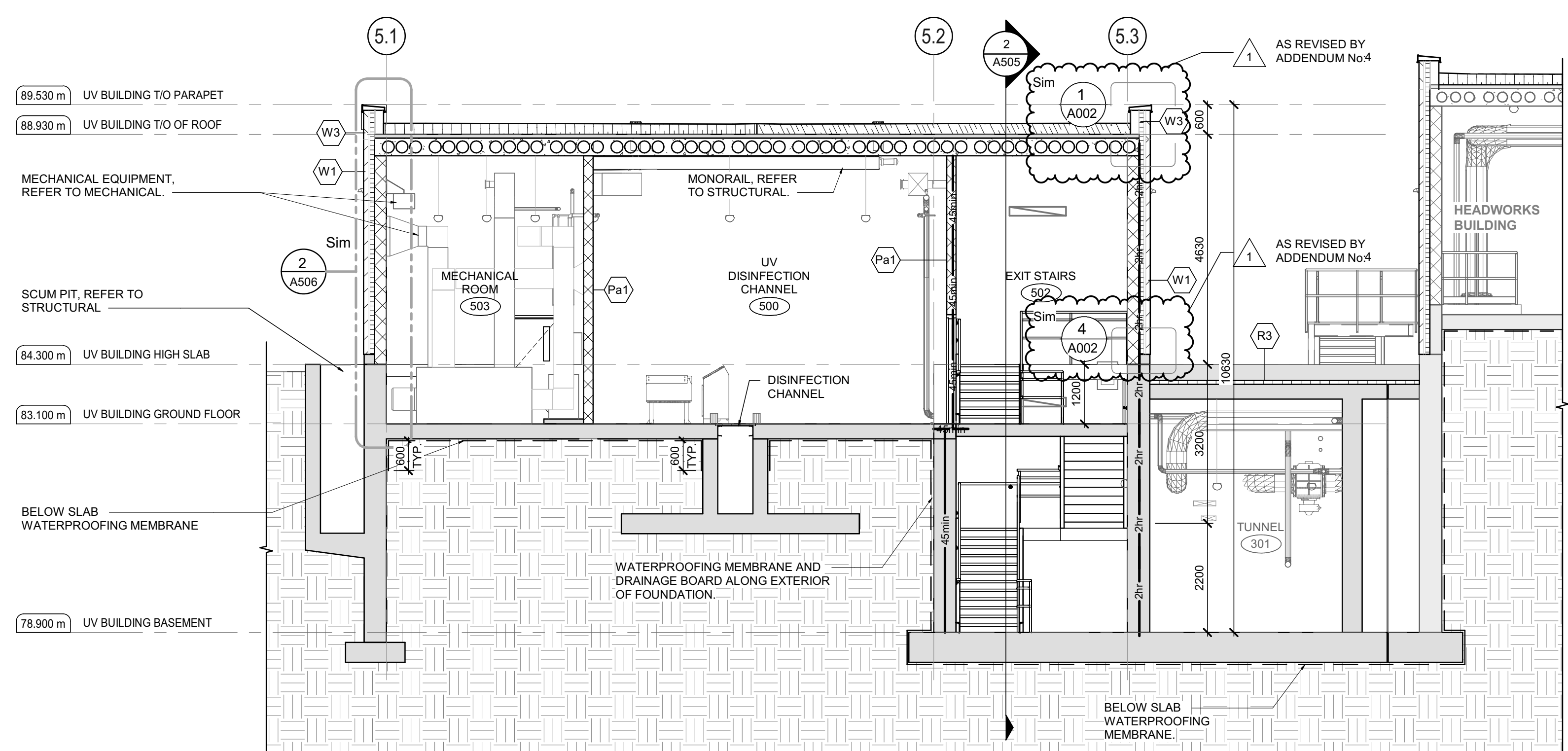
SCALE : 1 : 75



2  
A505

**BUILDING SECTION 2**

SCALE : 1 : 75

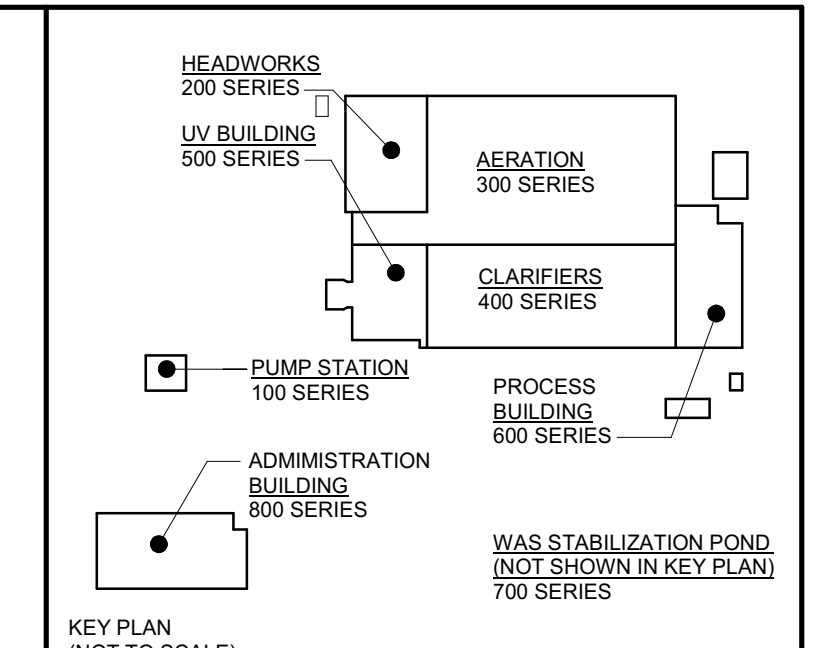


3  
A505

**BUILDING SECTION 3**

SCALE : 1 : 75

NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION



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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1 : 75

CLIENT:

**BRIGHTON**

CONSULTANT:

**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

2025-05-29  
OF  
ARCHITECTS  
STEPHANIE CAMPBELL  
LICENCE  
9391

PROJECT NORTH

PROJECT:

**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

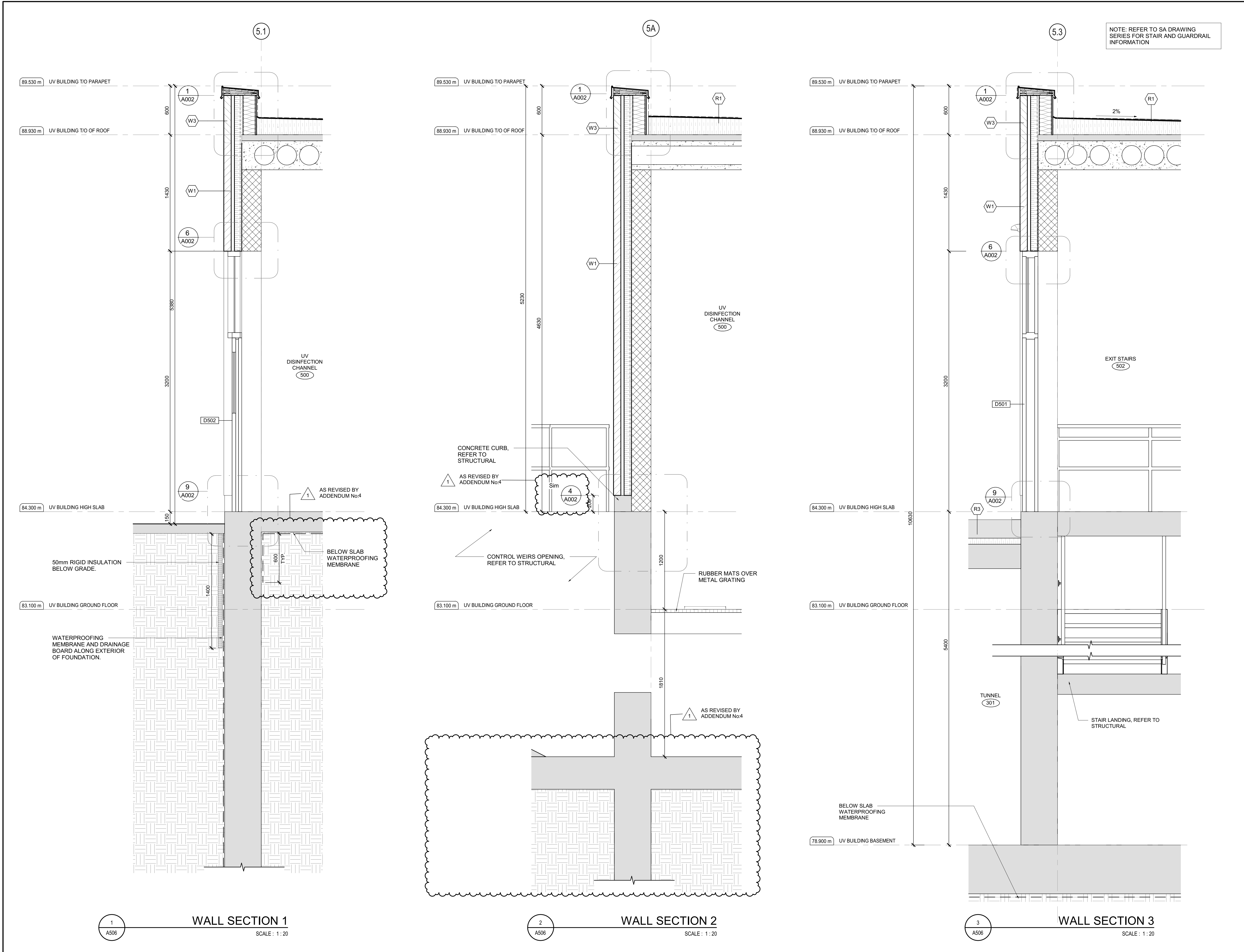
DRAWING:

**ARCHITECTURAL UV BUILDING BUILDING SECTIONS**

DESIGN: SC/KA	DRAWING #:
DRAWN: NP	<b>A505</b>
CHECKED: HB/SC	
JLR #:	32296-001

File Location: C:\Users\NParadesha\Documents\32296 AUV Building R23\_NParadesha.rvt  
PLOT DATE: 28/05/2025 2:17:19 PM





NOTE: REFER TO SA DRAWING SERIES FOR STAIR AND GUARDRAIL INFORMATION

HEADWORKS 200 SERIES  
UV BUILDING 500 SERIES  
PUMP STATION 100 SERIES  
ADMINISTRATION BUILDING 800 SERIES  
AERATION 300 SERIES  
CLARIFIERS 400 SERIES  
PROCESS BUILDING 600 SERIES  
WAS STABILIZATION POND (NOT SHOWN IN KEY PLAN) 700 SERIES

KEY PLAN (NOT TO SCALE)

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SCALE: 1 : 20

CLIENT:  
**BRIGHTON**  
MUNICIPALITY

CONSULTANT:  
**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS  
www.jrichards.ca

CONSULTANT:  
**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

PROFESSIONAL STAMP  
2025-05-29  
OF  
ARCHITECTS  
STEPHANIE CAMPBELL  
LICENCE  
9391

PROJECT NORTH

PROJECT:  
**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**  
100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:  
**ARCHITECTURAL UV BUILDING WALL SECTIONS**

DESIGN: SC/KA	DRAWING #:
DRAWN: NP	<b>A506</b>
CHECKED: HB/SC	
JLR #:	

JLR #: 32296-001

PLOT DATE: 28/05/2025 2:17:20 PM



**LEGEND:**

45min FIRE SEPARATION (45min FIRE RATING)

**WIDTH AND HEIGHT OF EXITS:**

1) THE WIDTH OF AN EXIT SHALL BE NOT LESS THAN  
- 1100mm FOR CORRIDORS AND PASSAGEWAYS  
- 900mm FOR STAIRS  
- 790mm FOR DOORWAYS

2) EVERY EXIT SHALL HAVE A CLEAR HEIGHT OVER THE CLEAR WIDTH OF THE EXIT OF NOT LESS THAN 2100mm

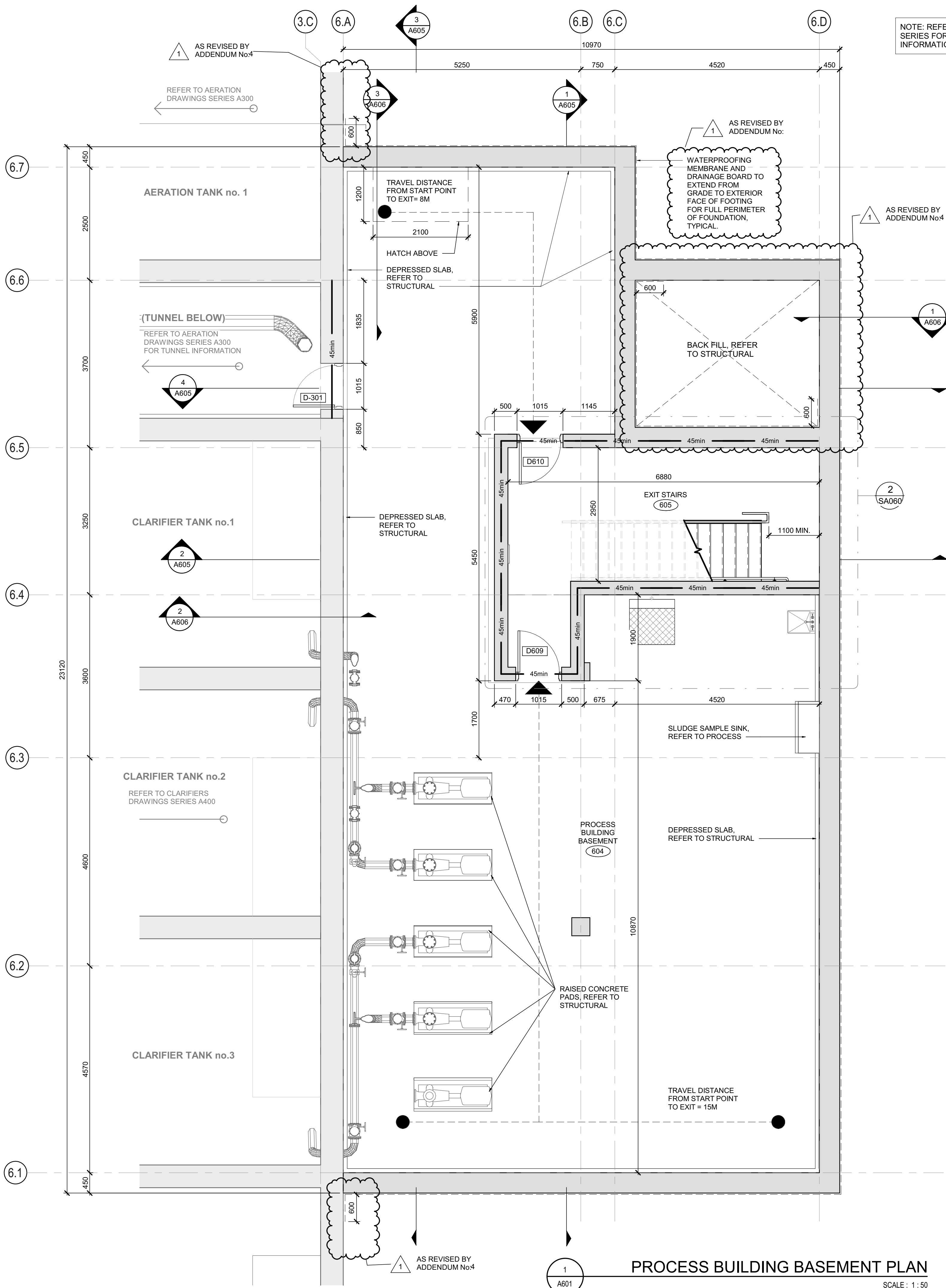
3) CLEAR HEIGHT OF DOORWAYS SHALL NOT BE LESS THAN 2030mm

**TRAVEL DISTANCE:**

--- SERVICE EGRESS 30 m

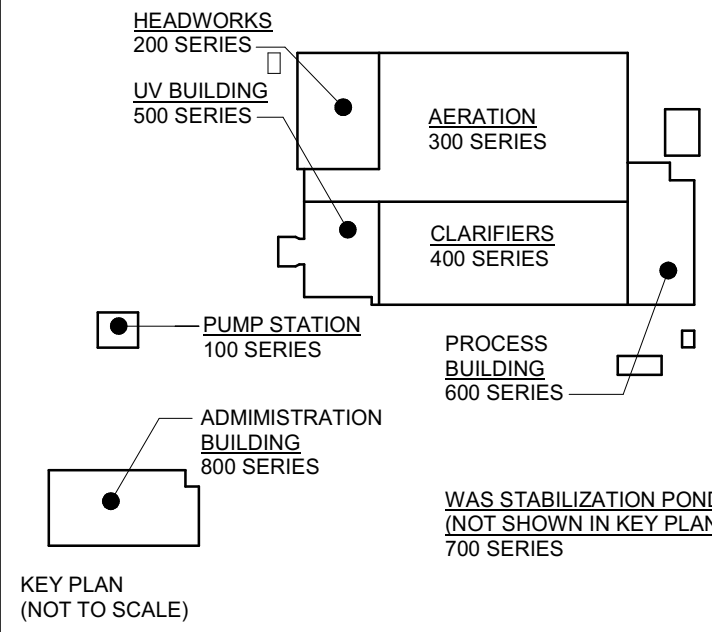
● START POINT

▲ EXIT POINT



PROCESS BUILDING BASEMENT PLAN

SCALE: 1:50



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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: As indicated

CLIENT:

**BRIGHTON**

CONSULTANT:

**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

2025-05-29 OF ARCHITECTS

STEPHANIE CAMPBELL  
LICENCE 9391

PROJECT NORTH

PROJECT:

**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

**ARCHITECTURAL PROCESS BUILDING BASEMENT PLAN**

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

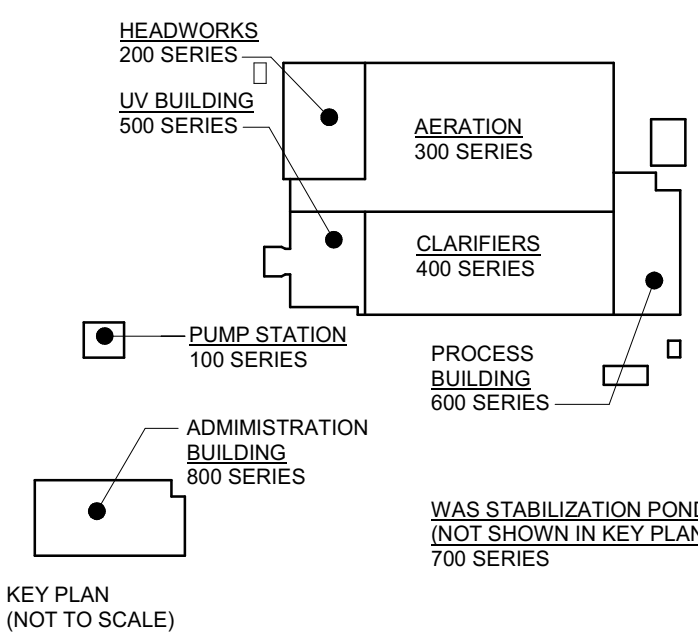
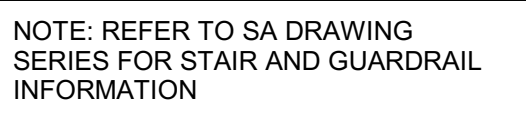
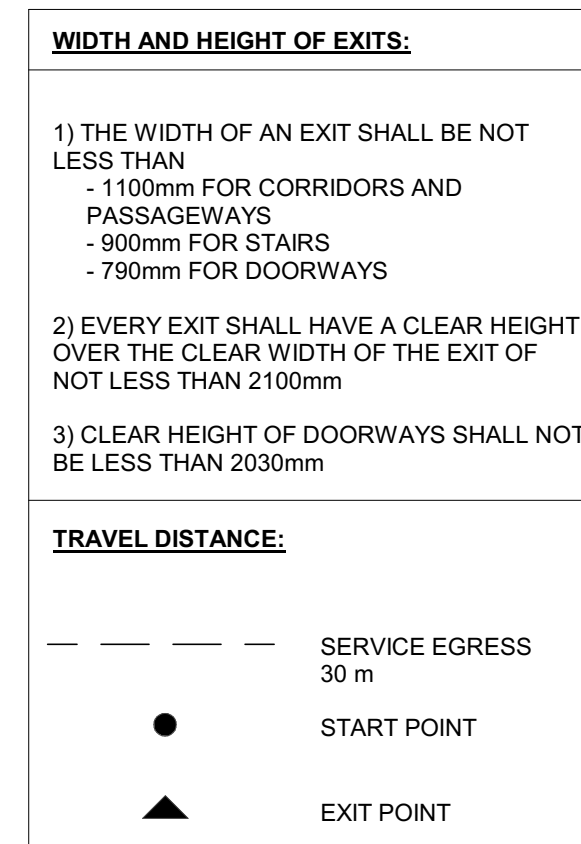
JLR #: 32296-001

DRAWING #:

**A601**

File Location: C:\Users\NParedes\Documents\32296 A-Process Building R23 NParedes\Hall.mxd PLOT DATE: 28/05/2025 2:18:45 PM





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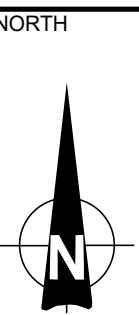
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: As indicated

**CLIENT**

CONSULTANT: [www.jlrichards.com](http://www.jlrichards.com)

CONSULTANT



PROJECT:

# BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

## DRAWING

ARCHITECTURAL  
PROCESS BUILDING  
GROUND FLOOR PLAN

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

**DRAWING :**

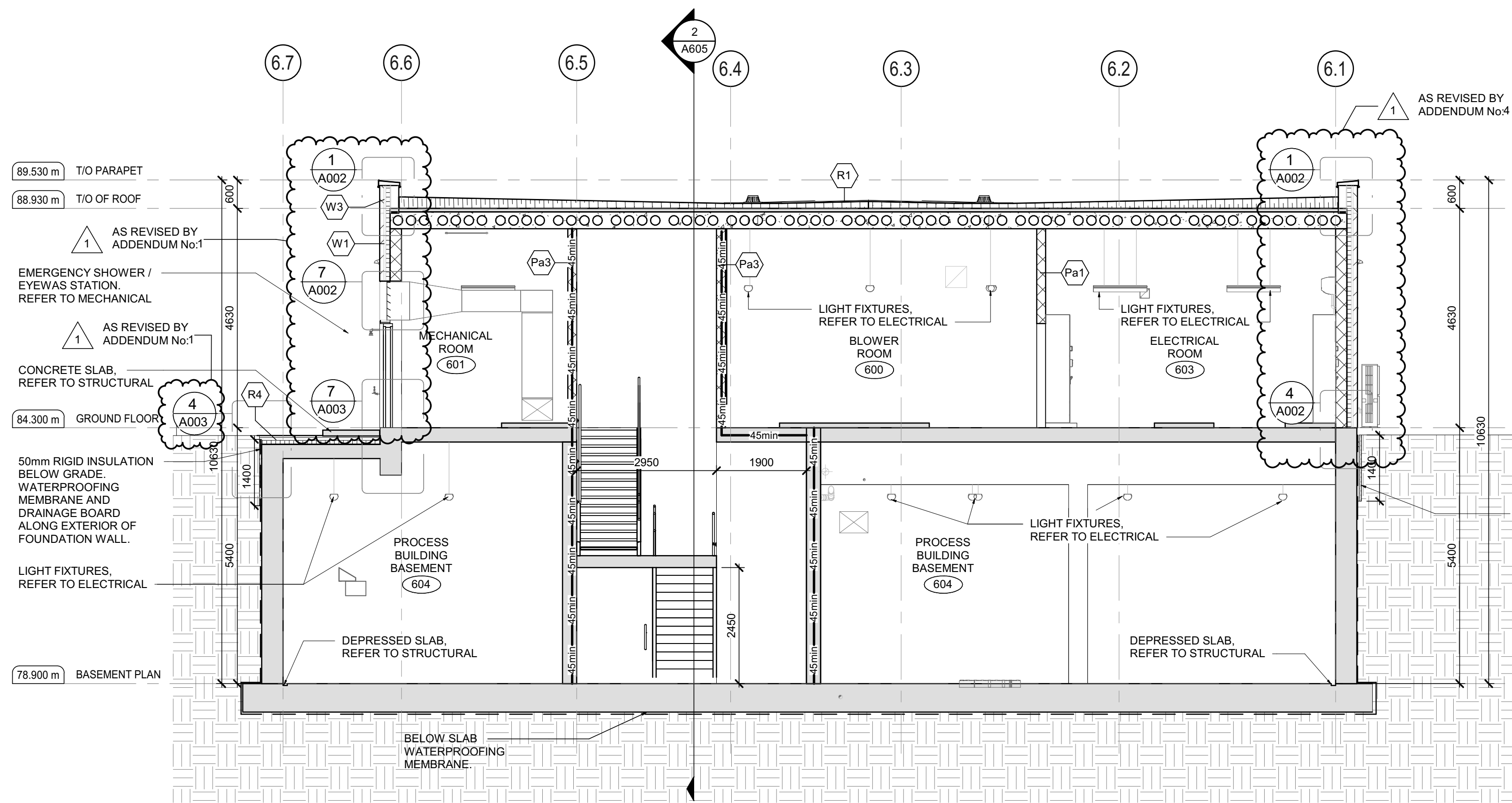
A602

1 PROCESS BUILDING GROUND FLOOR PLAN  
A602 SCALE : 1 : 50

SCALE : 1 : 50

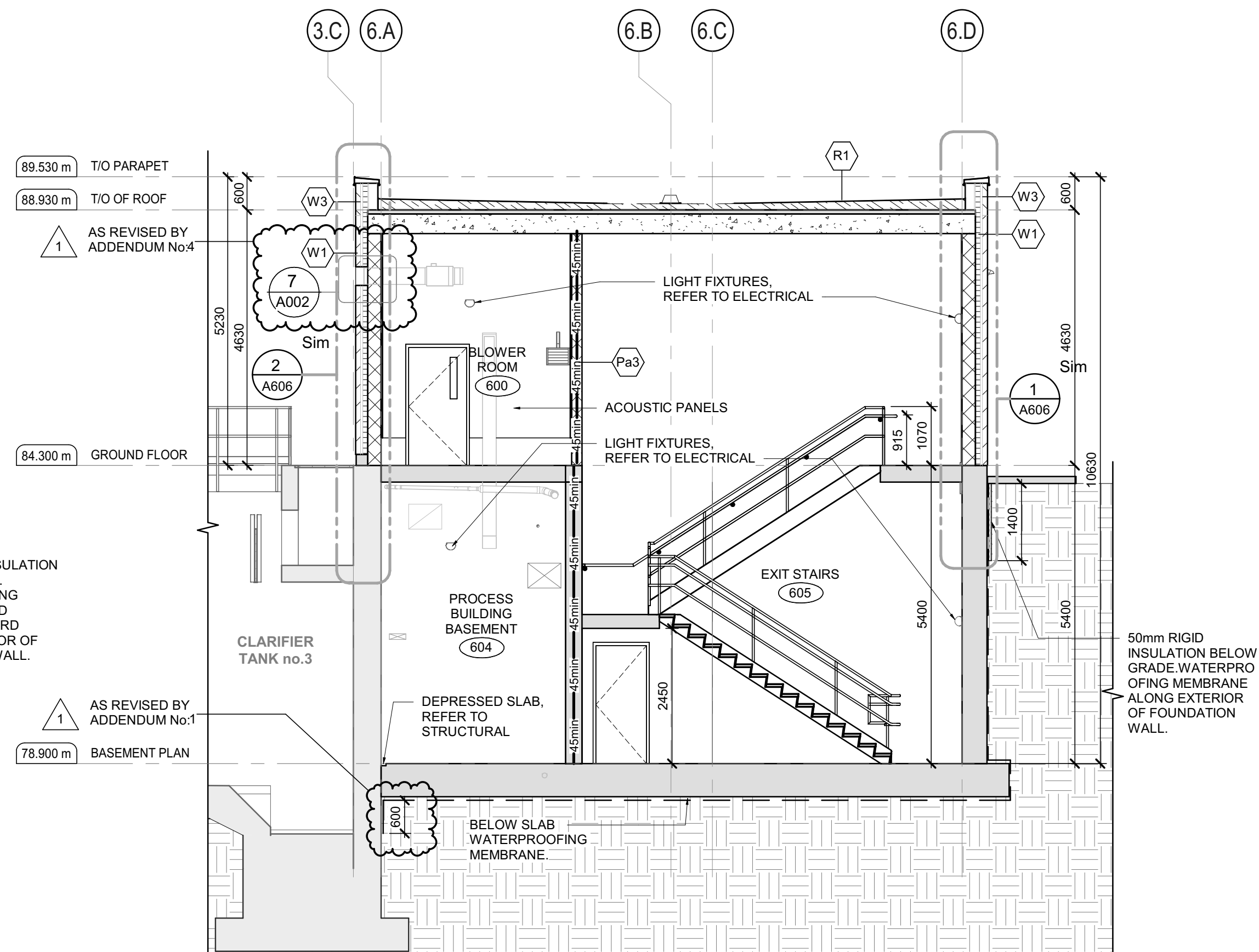
PLOT DATE: 28/05/2025 2:18:47 PM





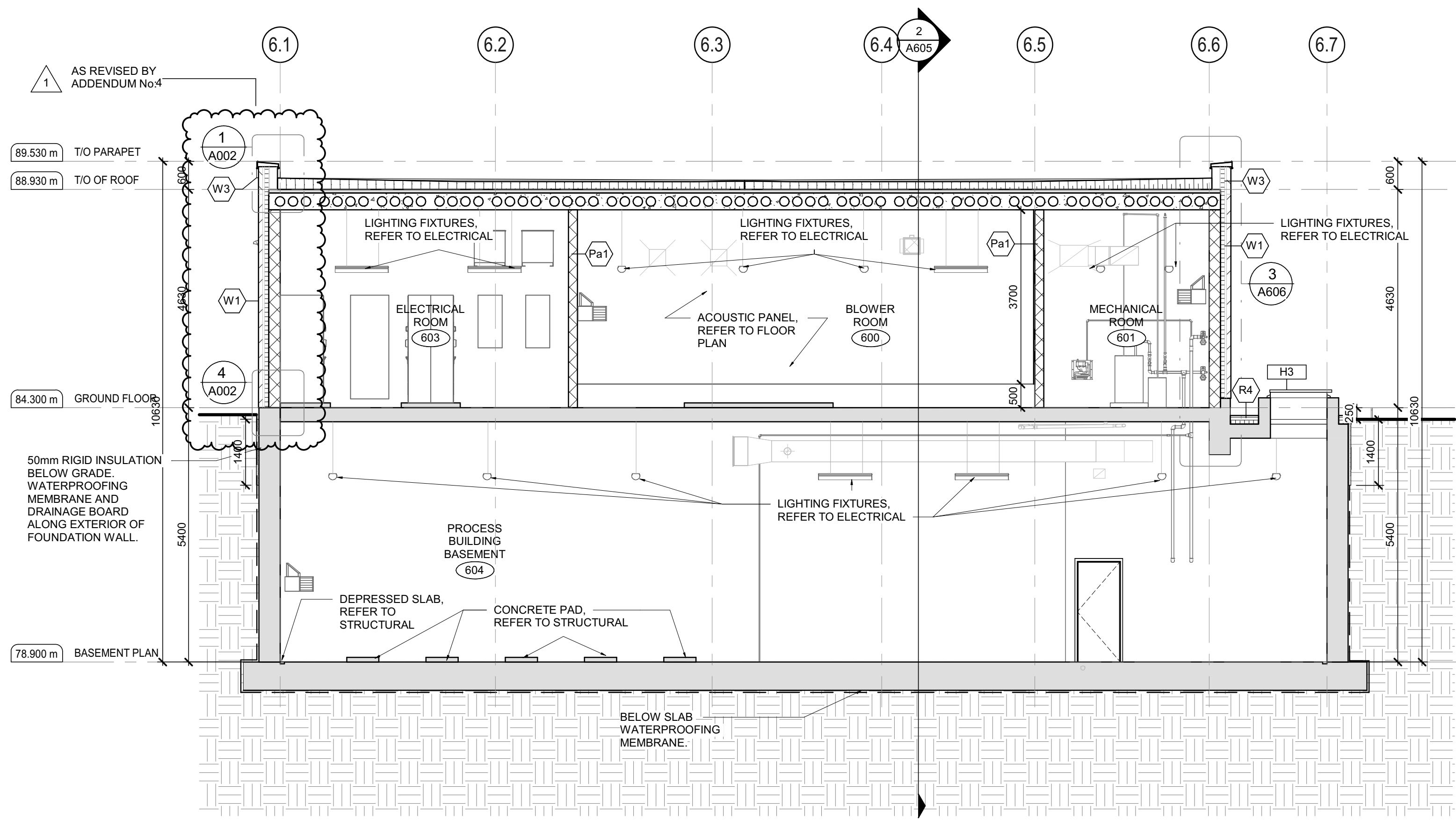
BUILDING SECTION 1

SCALE: 1:75



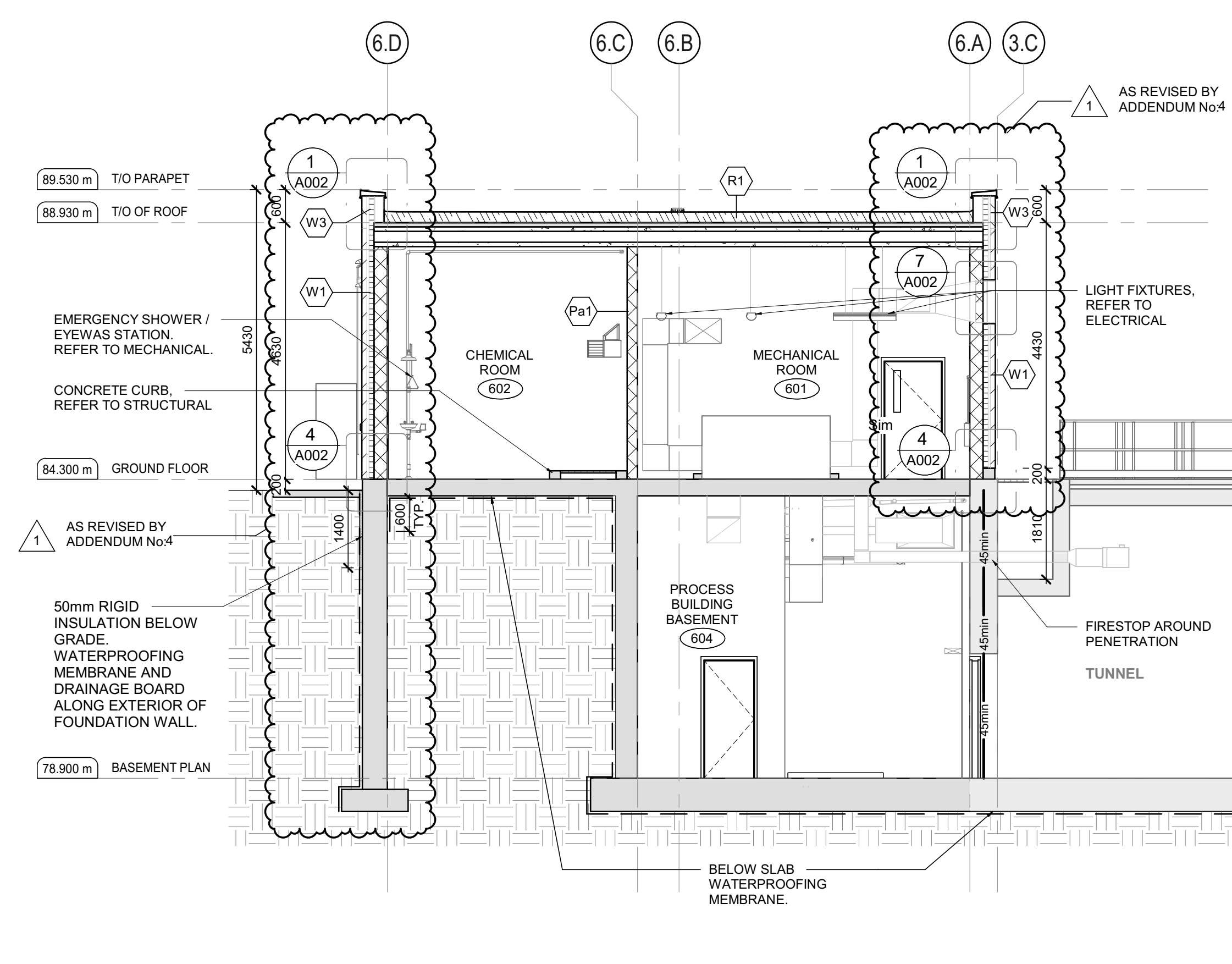
BUILDING SECTION 2

SCALE: 1:75



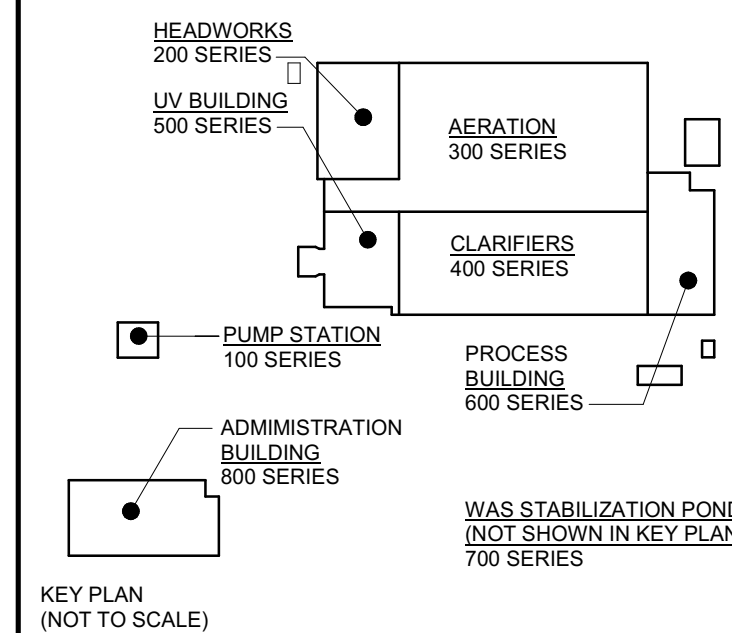
BUILDING SECTION 3

SCALE: 1:75



BUILDING SECTION 4

SCALE: 1:75



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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:75

CLIENT:

**BRIGHTON**

CONSULTANT:

**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

2025-05-29 OF

ARCHITECTS

STEPHANIE CAMPBELL

LICENCE 9391

PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

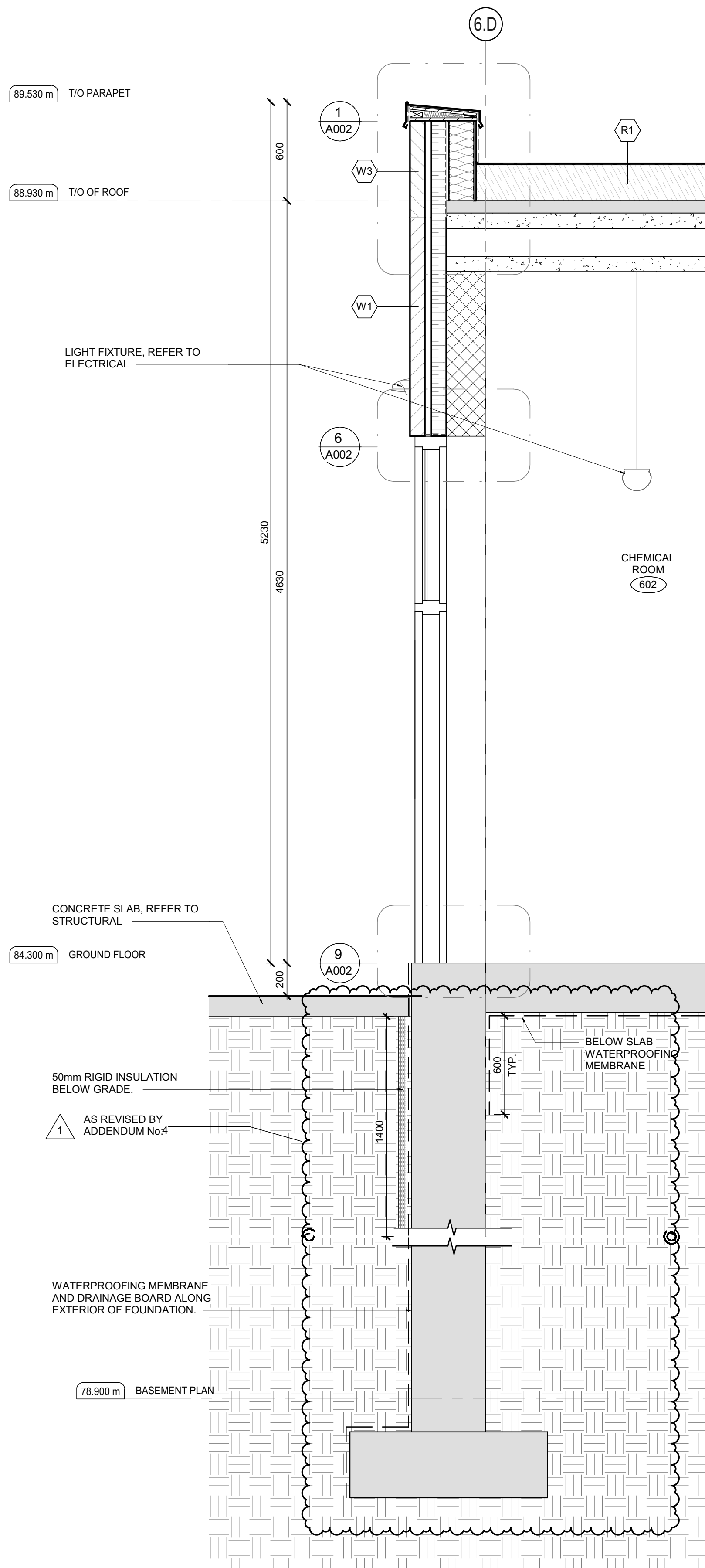
DRAWING:

ARCHITECTURAL PROCESS BUILDING

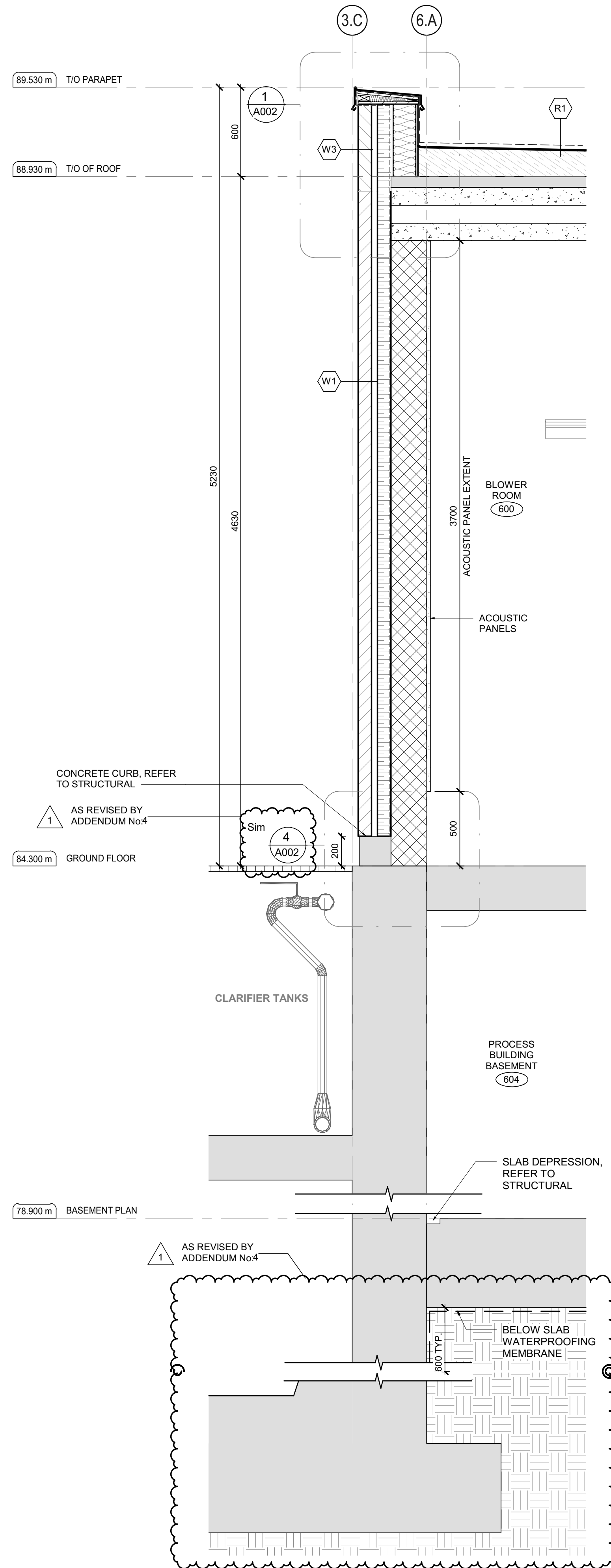
BUILDING SECTIONS

DESIGN:	SC/KA	DRAWING #:	A605
DRAWN:	NP		
CHECKED:	HB/SC		
JLR #:	32296-001		

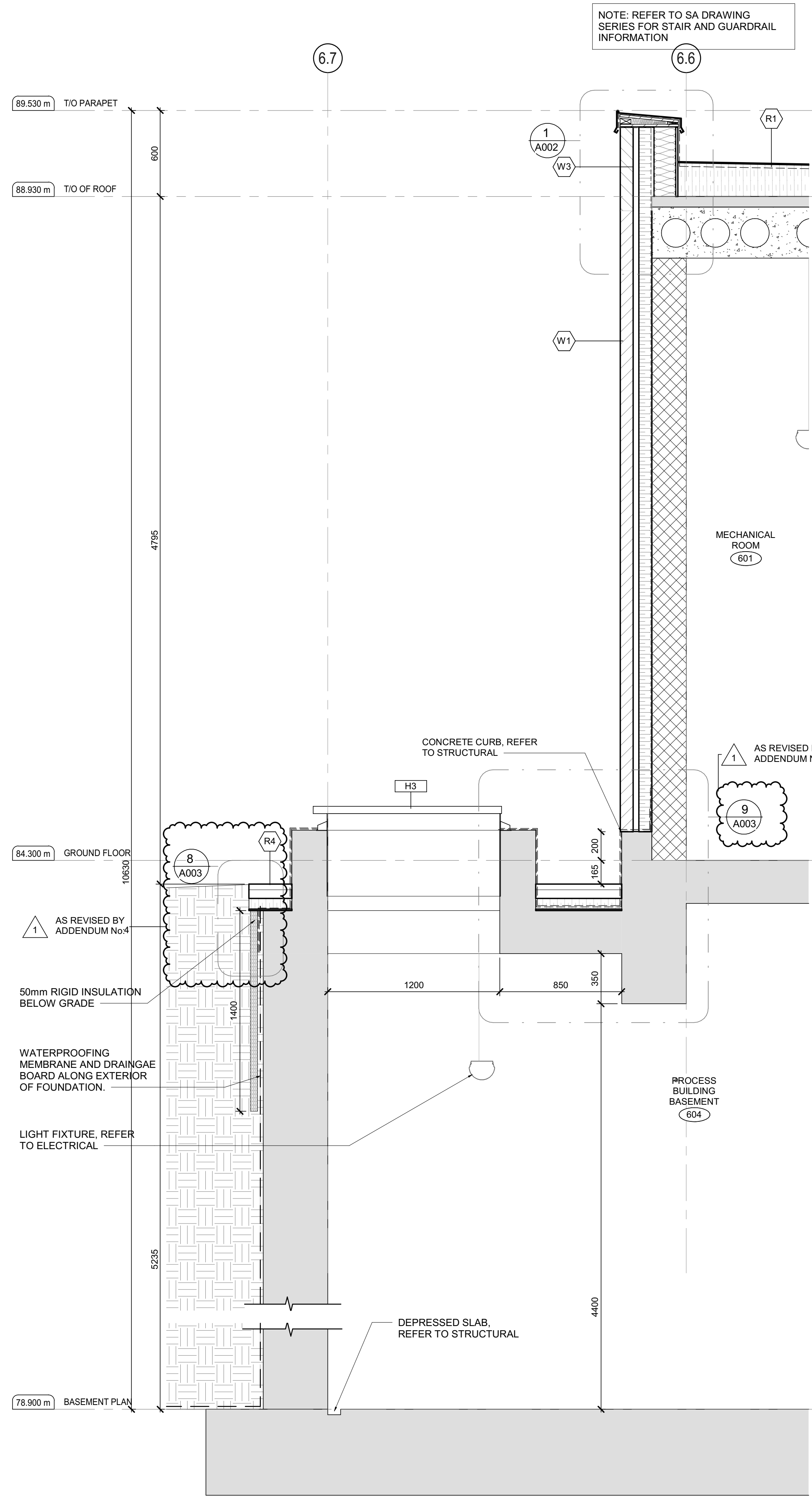




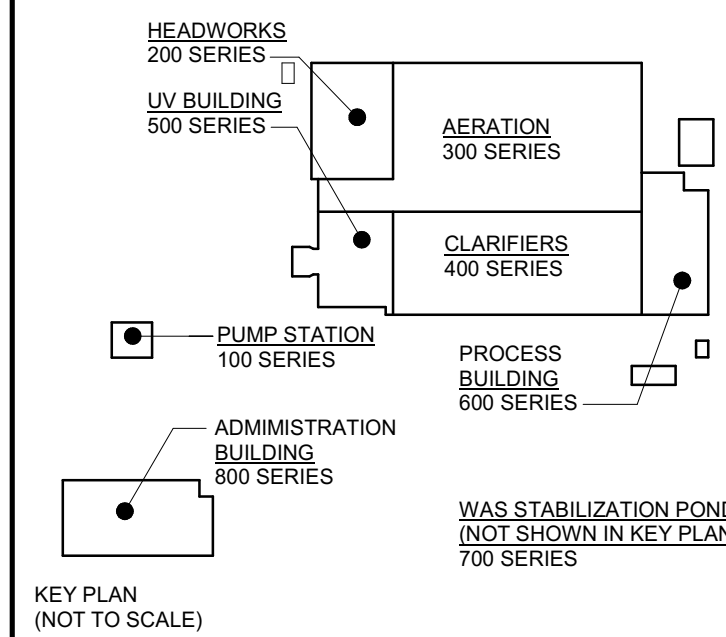
1 WALL SECTION 1  
A606 SCALE: 1:20



2 WALL SECTION 2  
A606 SCALE: 1:20



3 WALL SECTION 3  
A606 SCALE: 1:20



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SCALE: 1:20

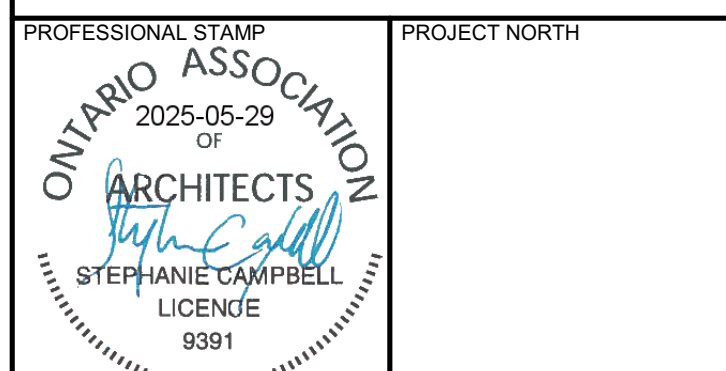
CLIENT:



CONSULTANT:



CONSULTANT:



PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES  
100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

ARCHITECTURAL  
UV BUILDING  
WALL SECTIONS

DESIGN: SC/KA  
DRAWN: NP  
CHECKED: HB/SC  
JLR #: 32296-001  
DRAWING #: A606

File Location: C:\Users\NParedes\Documents\32296 A Process Building R23 NParedes\Hall.mxd  
PLOT DATE: 28/05/2025 2:18:49 PM



**LEGEND:**

1th FIRE SEPARATION (60min FIRE RATING)

**WIDTH AND HEIGHT OF EXITS:**

1) THE WIDTH OF AN EXIT SHALL BE NOT LESS THAN  
- 1100mm FOR CORRIDORS AND PASSAGEWAYS  
- 900mm FOR STAIRS  
- 790mm FOR DOORWAYS

2) EVERY EXIT SHALL HAVE A CLEAR HEIGHT OVER THE CLEAR WIDTH OF THE EXIT OF NOT LESS THAN 2100mm

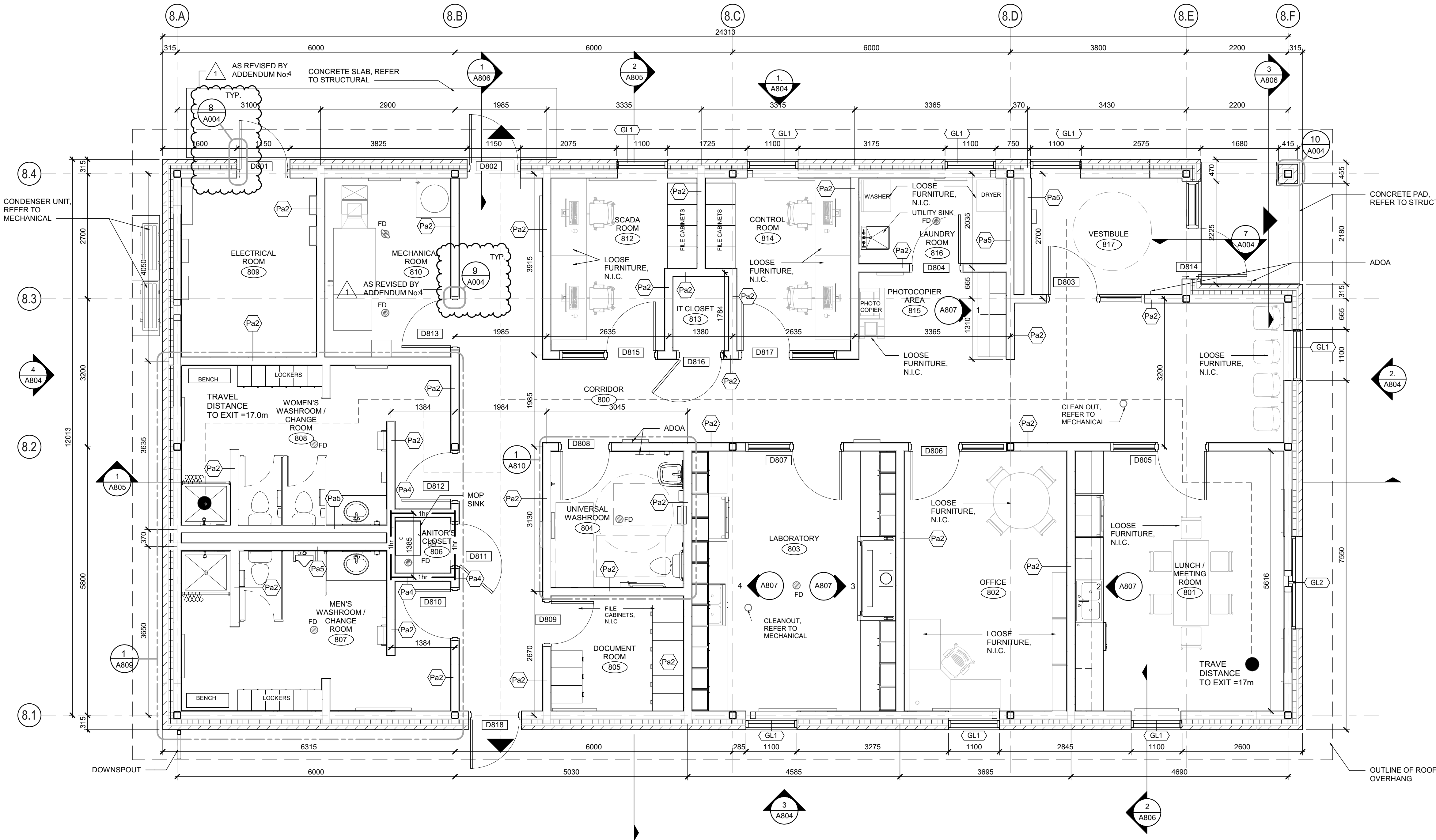
3) CLEAR HEIGHT OF DOORWAYS SHALL NOT BE LESS THAN 2030mm

**TRAVEL DISTANCE:**

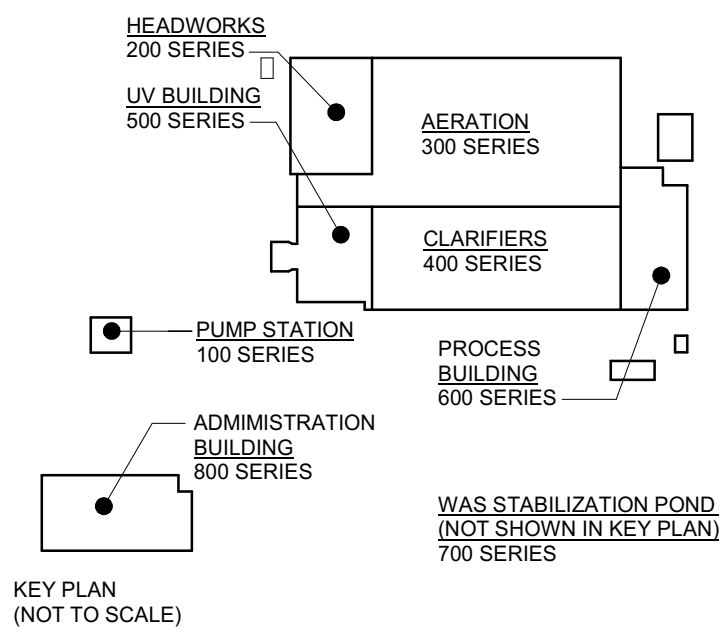
--- SERVICE EGRESS 30 m

● START POINT

▲ EXIT POINT



ADMINISTRATION BUILDING GROUND FLOOR PLAN  
SCALE: 1:50



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SCALE: As indicated

CLIENT:

**BRIGHTON**

CONSULTANT:

**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

CONSULTANT:

PROFESSIONAL STAMP  
2025-05-29  
OF  
ARCHITECTS  
STEPHANIE CAMPBELL  
LICENCE  
9391

PROJECT NORTH

PROJECT:

**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

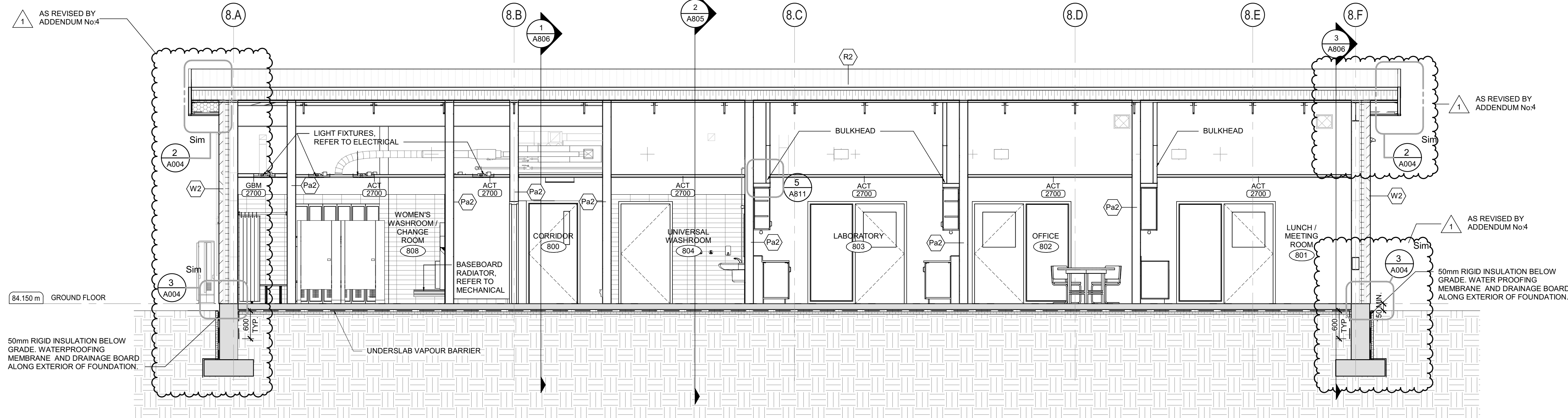
**ARCHITECTURAL ADMINISTRATION BUILDING GROUND FLOOR PLAN**

DESIGN: SC/KA	DRAWING #:
DRAWN: NP	<b>A801</b>
CHECKED: HB/SC	
JLR #:	32296-001

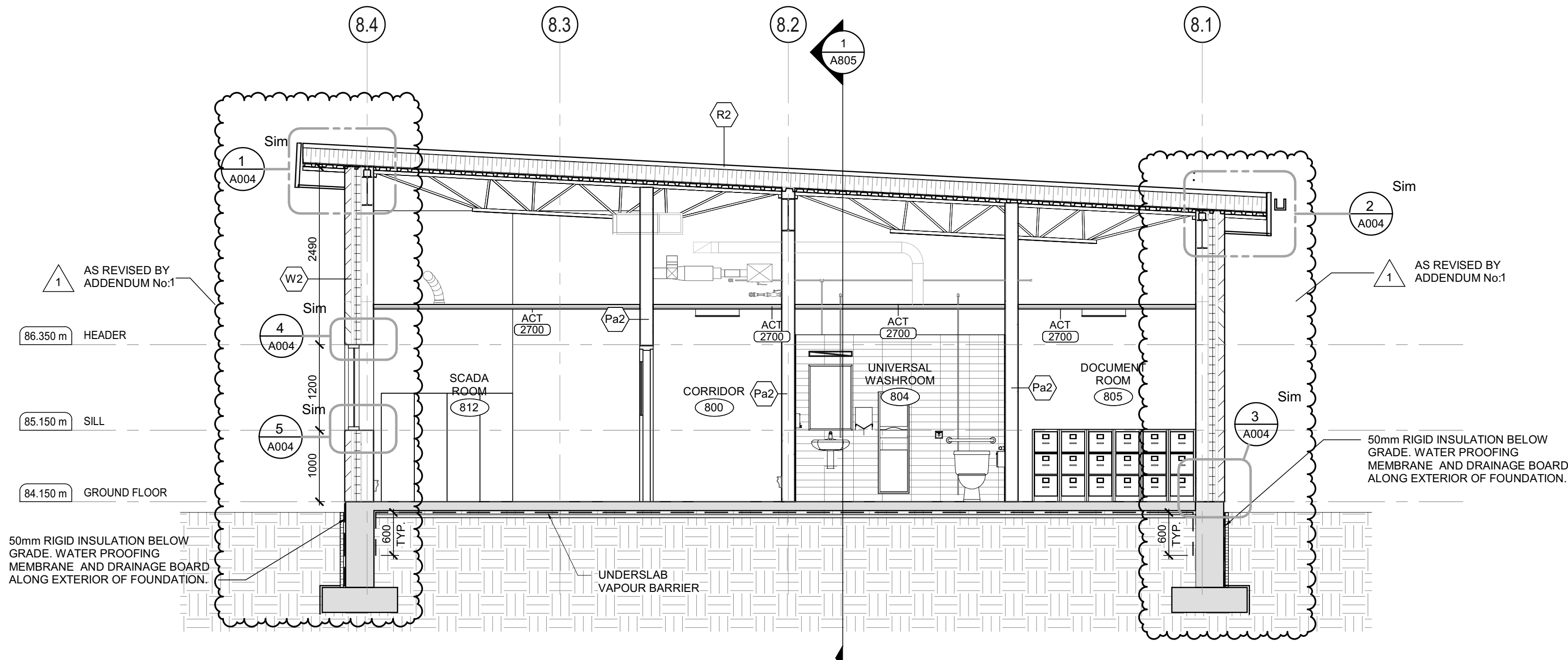
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PLOT DATE: 28/05/2025 2:46:13 PM



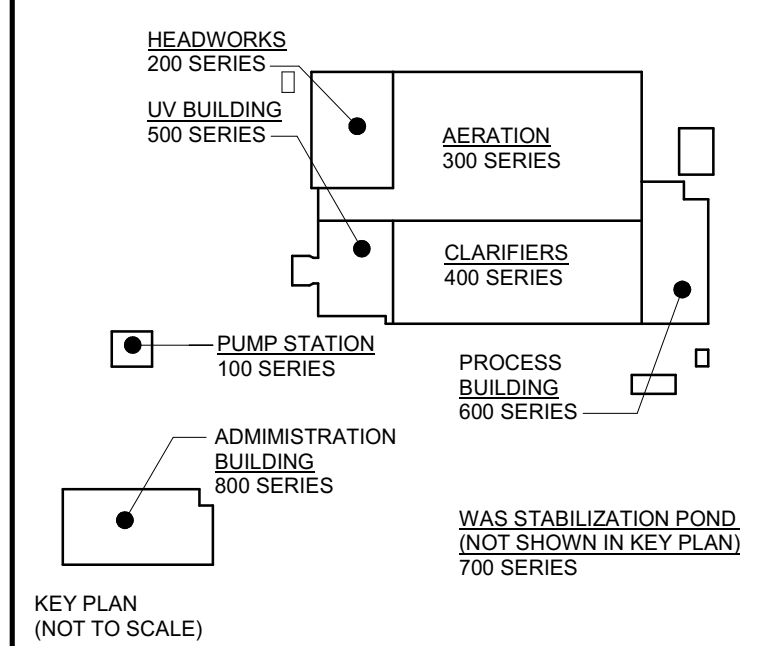
AS REVISED BY  
ADDENDUM No.4



1 ADMINISTRATION BUILDING SECTION 1  
SCALE : 1 : 50



2 ADMINISTRATION BUILDING SECTION 2  
SCALE : 1 : 50



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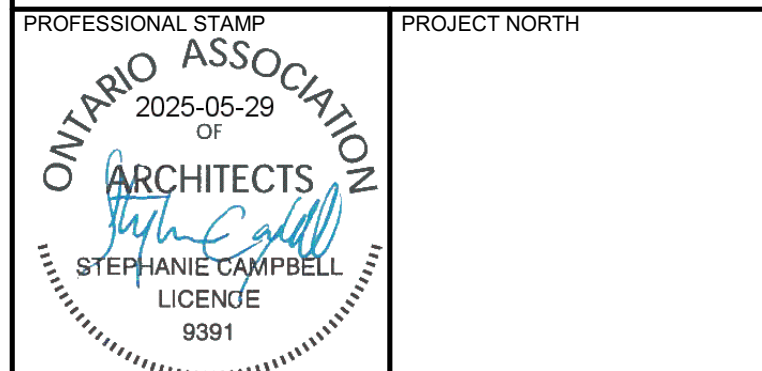
SCALE: 1 : 50



CONSULTANT: www.jrichards.ca



CONSULTANT:



PROJECT:

BRIGHTON WASTEWATER  
TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:

ARCHITECTURAL  
ADMINISTRATION BUILDING

BUILDING SECTIONS

DESIGN: SC/KA

DRAWN: NP

CHECKED: HB/SC

JLR #: 32296-001

DRAWING #:  
**A805**





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CLIENT:



MUNICIPALITY OF  
**BRIGHTON**



**J.L. Richards**  
ENGINEERS · ARCHITECTS · PLANNERS

11/11/2016

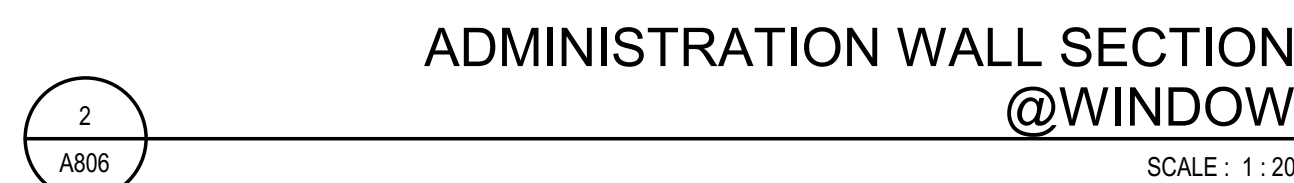
2025-05-29  
OF  
ARCHITECTS  
STEPHANIE CAMPBELL  
LICENCE  
9391

**BRIGHTON WASTEWATER  
TREATMENT SYSTEM UPGRADES**

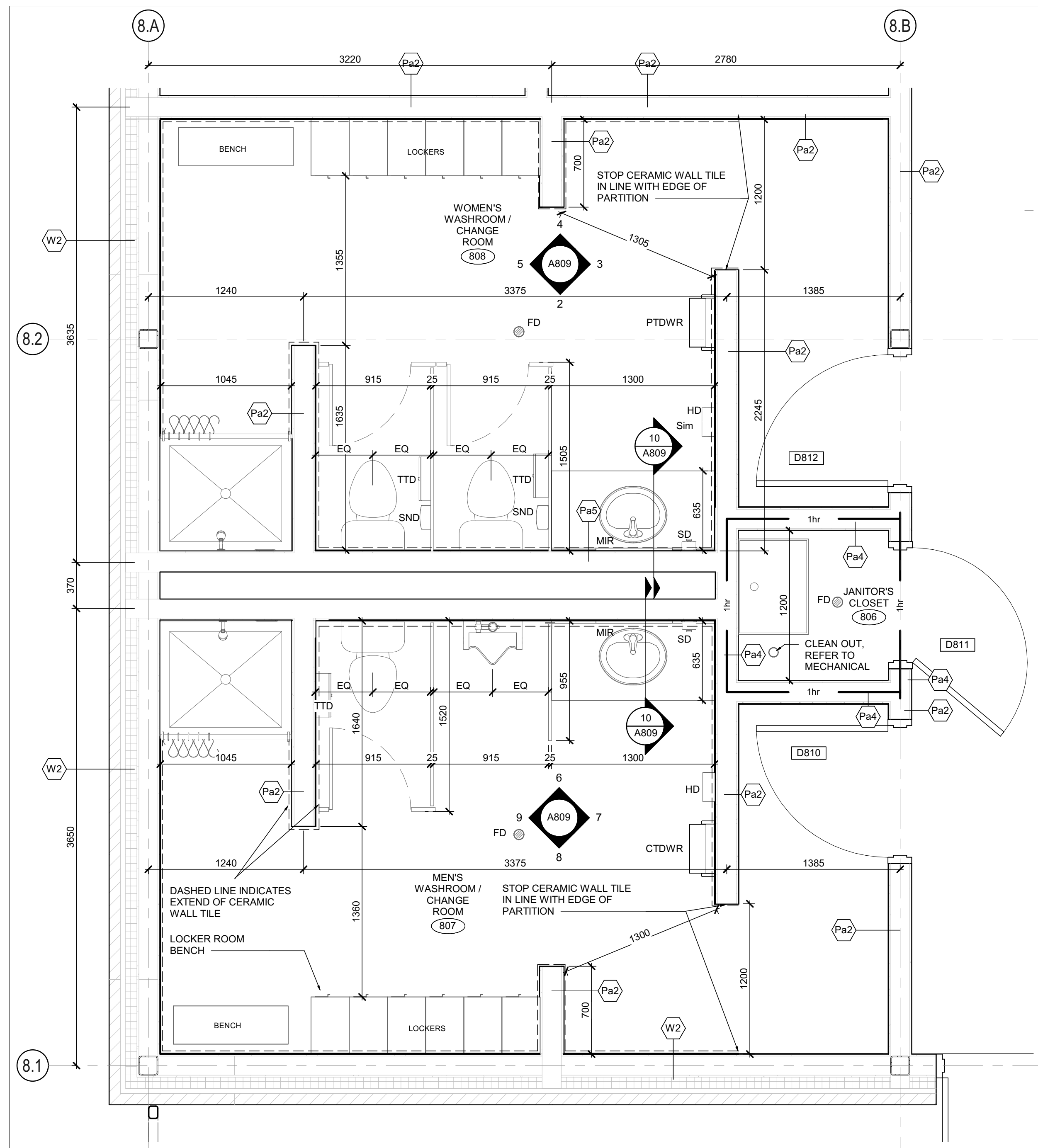
100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING: ARCHITECTURAL  
ADMINISTRATION BUILDING  
WALL SECTIONS

DESIGN: SC/KA	DRAWING #:  <b>A806</b>
DRAWN: NP	
CHECKED: HB/SC	
JLR #: 32296-001	





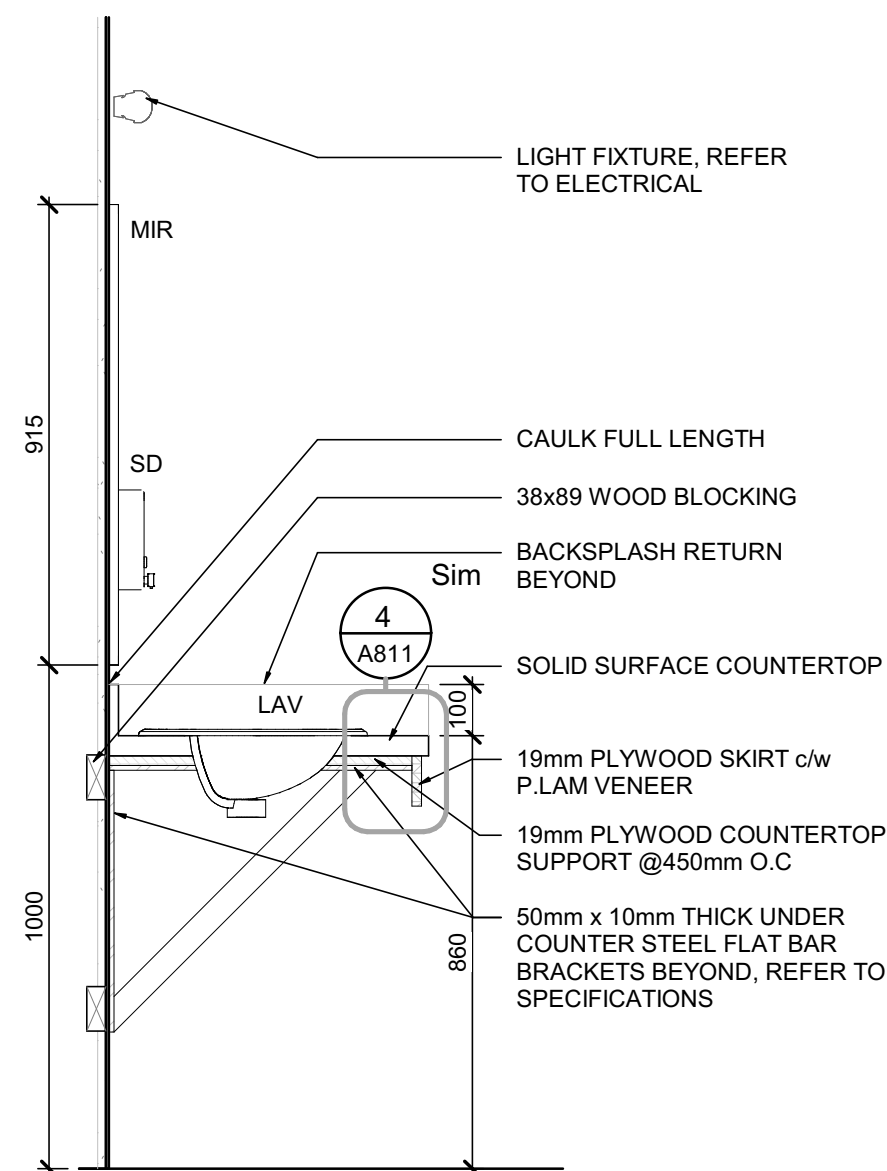


WOMEN AND MEN WASHROOM'S  
ENLARGED PLAN

SCALE : 1 : 25

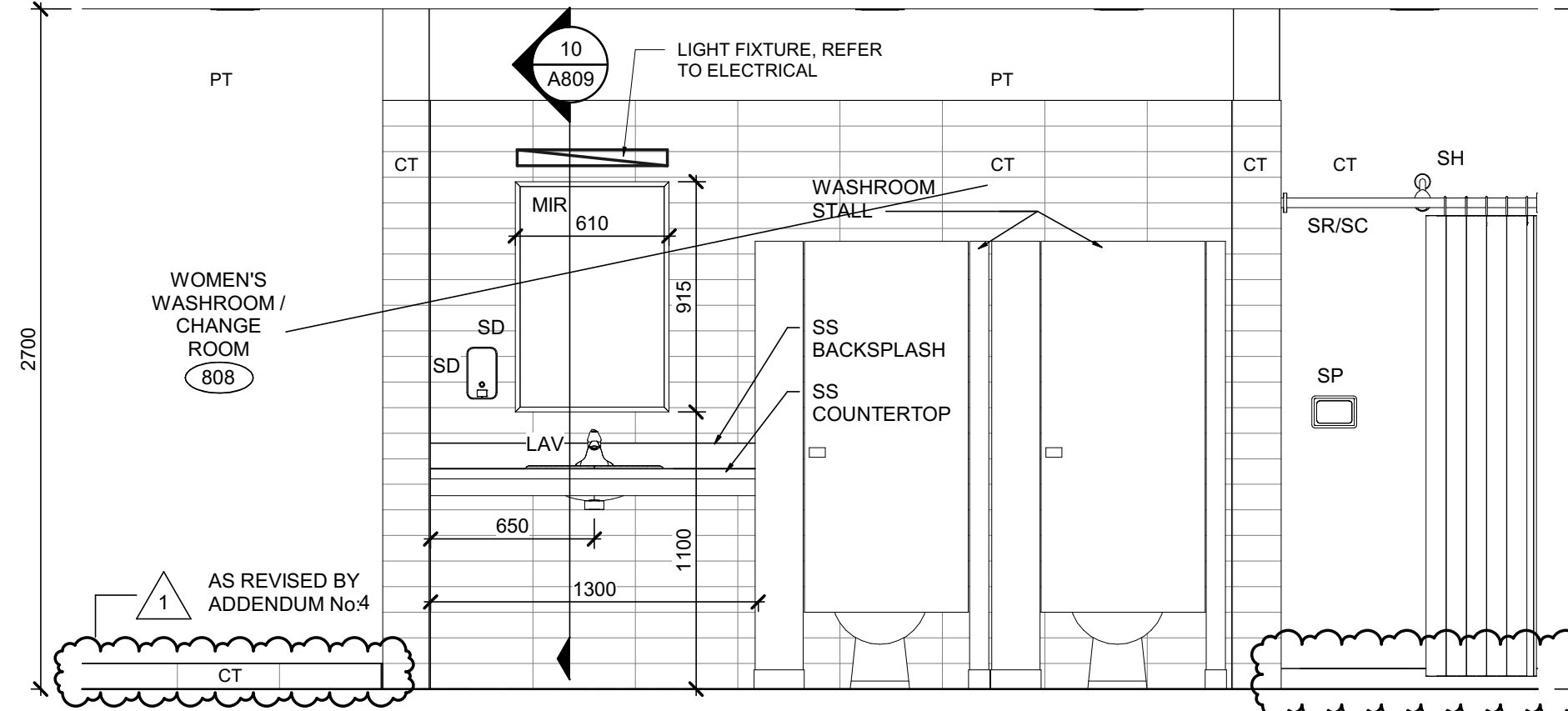
ABBREVIATIONS

ADOA	AUTOMATIC DOOR OPERATOR ACTUATOR
CTDWR	RECESSED COMBINATION TOWEL DISPENSER/ WASTE RECEPTACLE
CT	CERAMIC TILE
ECB	EMERGENCY CALL BUTTON
FD	FLOOR DRAIN, REFER TO MECH. DWG'S
GB1	GRAB BAR, 24" HORIZONTAL
GB2	GRAB BAR, 30" x 30" L SHAPE
HD	HAND DRYER
BN	BENCH
LAV	LAVATORY
LK	"PUSH TO LOCK" BUTTON
LKR	LOCKER
MIR	MIRROR
RH	ROBE HOOK
SC	SHOWER CURTAIN
SH	SHOWER HEAD
SND	SOAP DISPENSER
TTD	TOILET TISSUE DISPENSER
UR	URINAL
WC	WATER CLOSET
---	EXTENT OF CERAMIC TILE (CT)



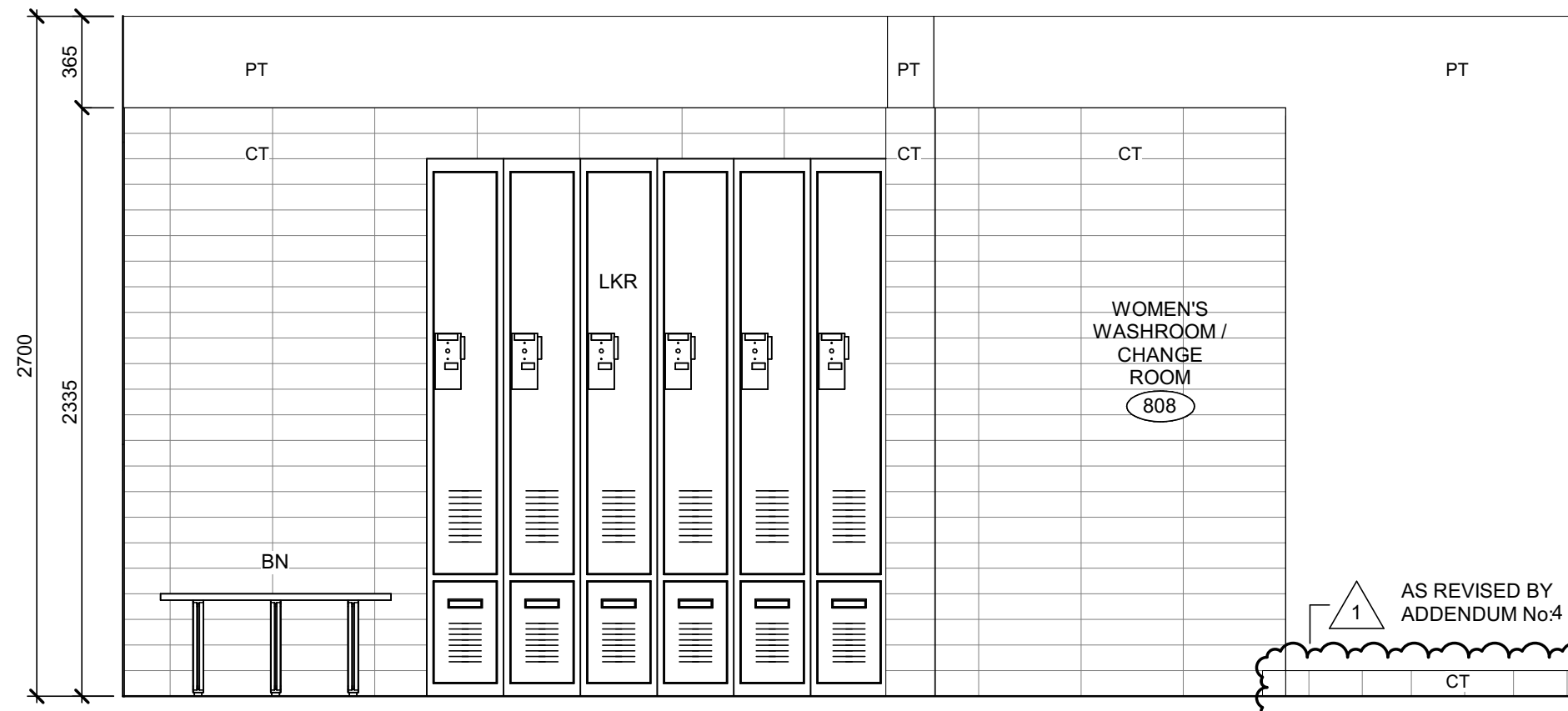
WASHROOM MILLWORK  
SECTION

SCALE : 1 : 15



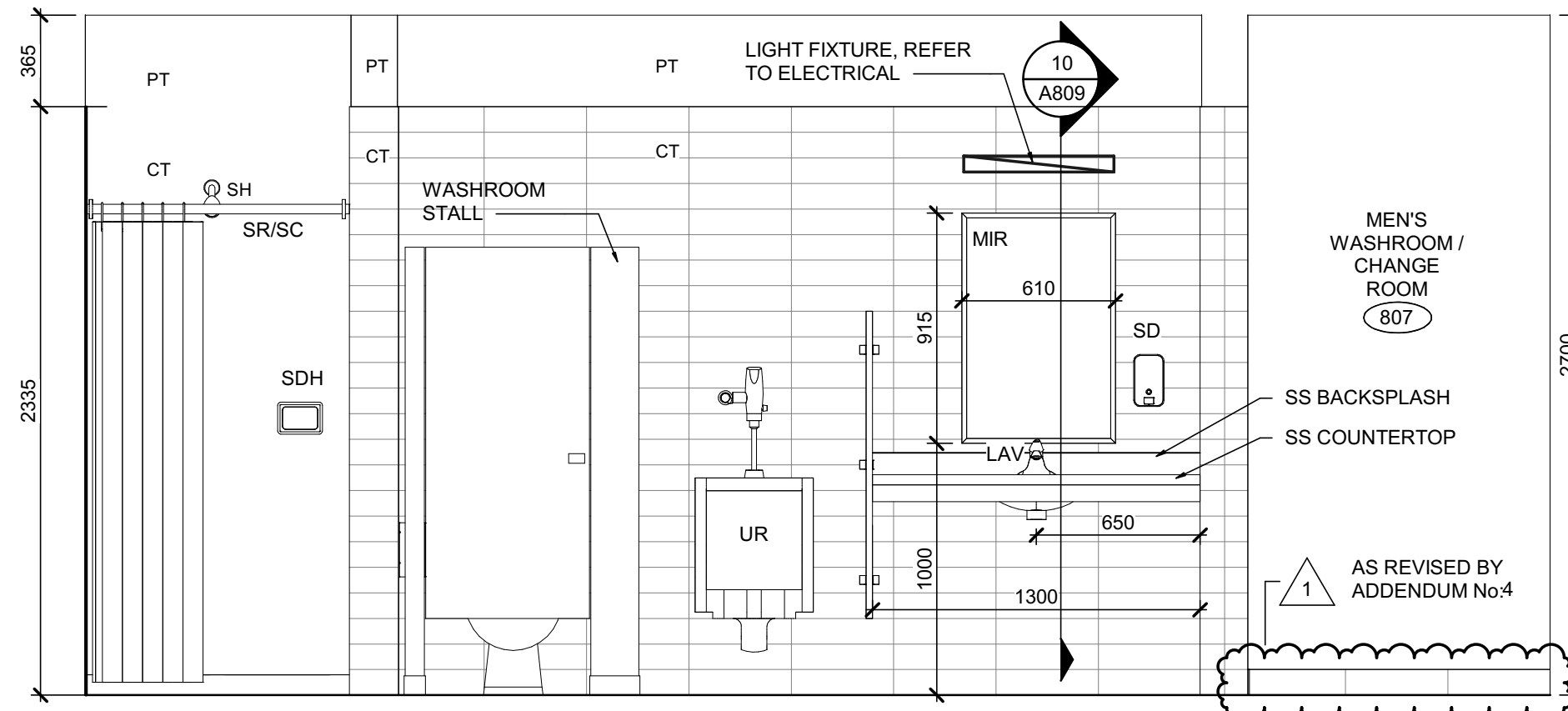
WOMEN'S WASHROOM -  
SOUTH ELEVATION

SCALE : 1 : 25



WOMEN'S WASHROOM -  
NORTH ELEVATION

SCALE : 1 : 25



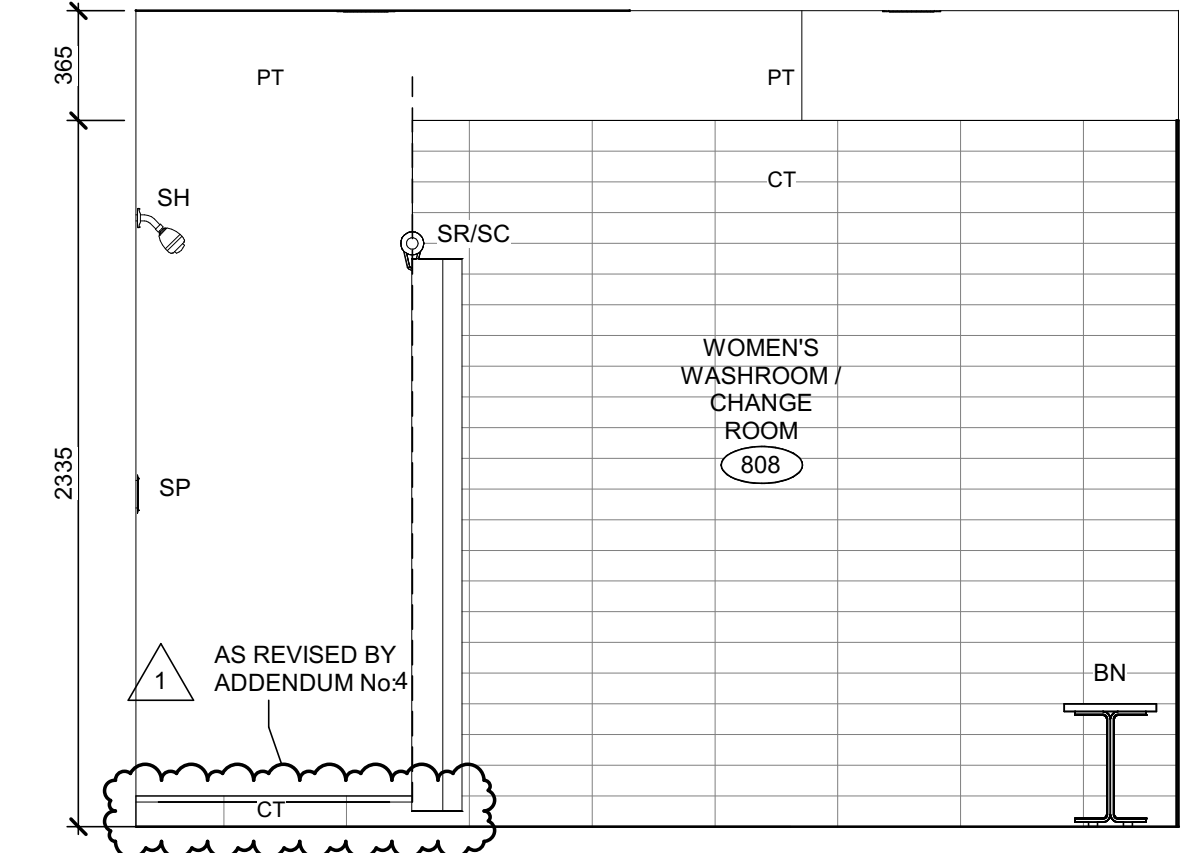
MEN'S WASHROOM - NORTH  
ELEVATION

SCALE : 1 : 25



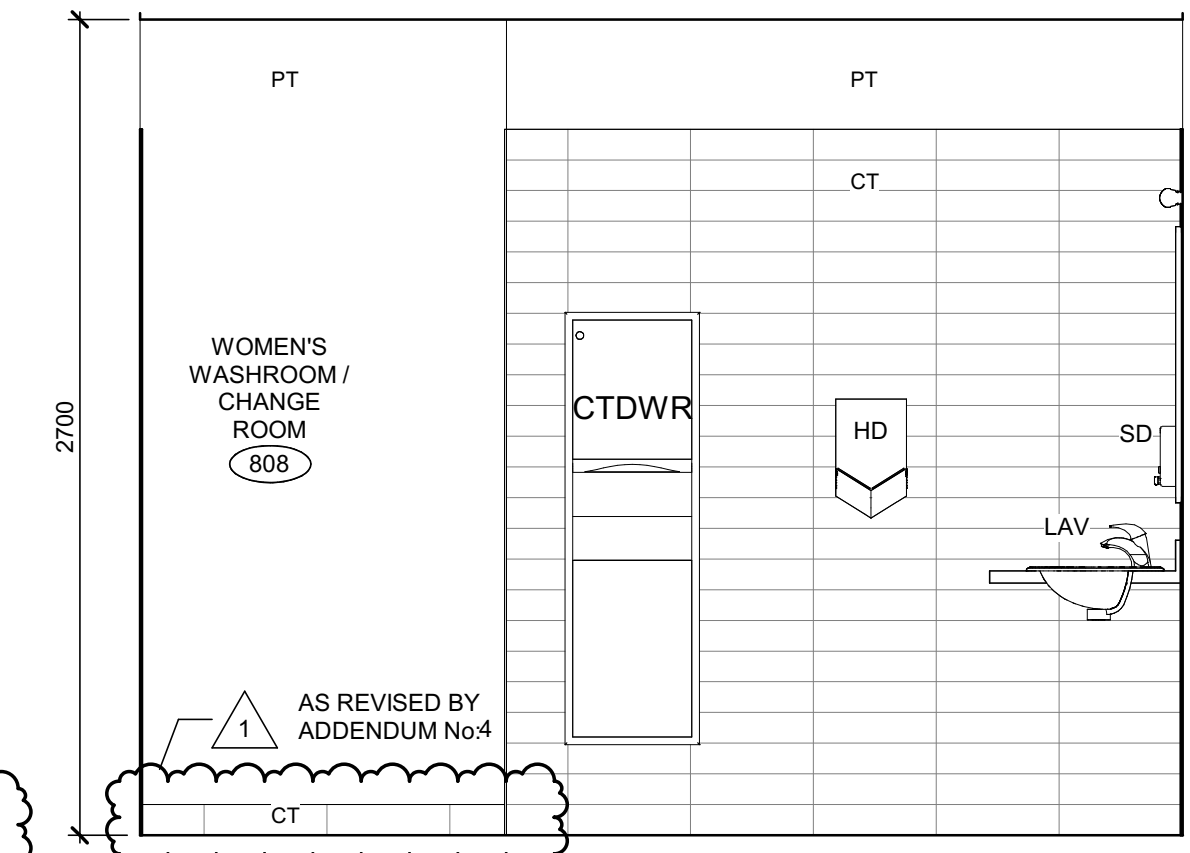
MEN'S WASHROOM - SOUTH  
ELEVATION

SCALE : 1 : 25



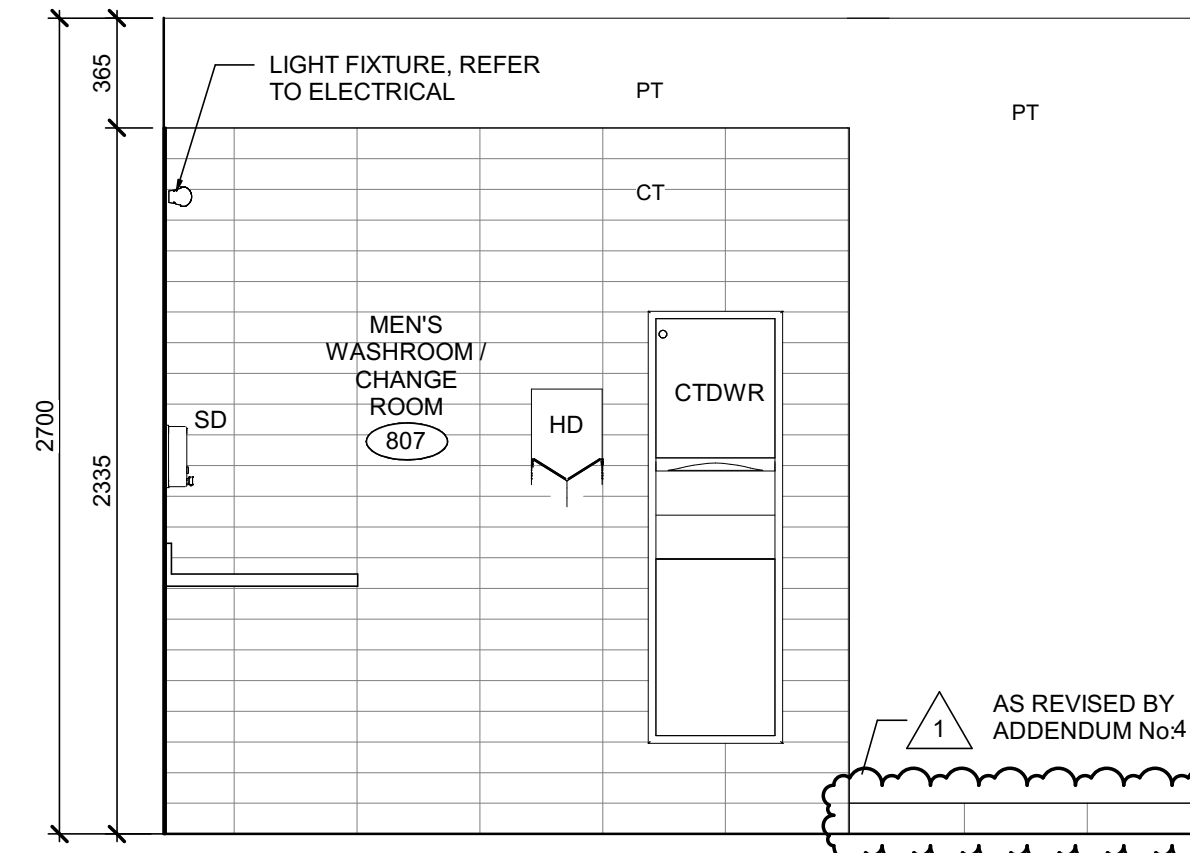
WOMEN'S WASHROOM -  
WEST ELEVATION

SCALE : 1 : 25



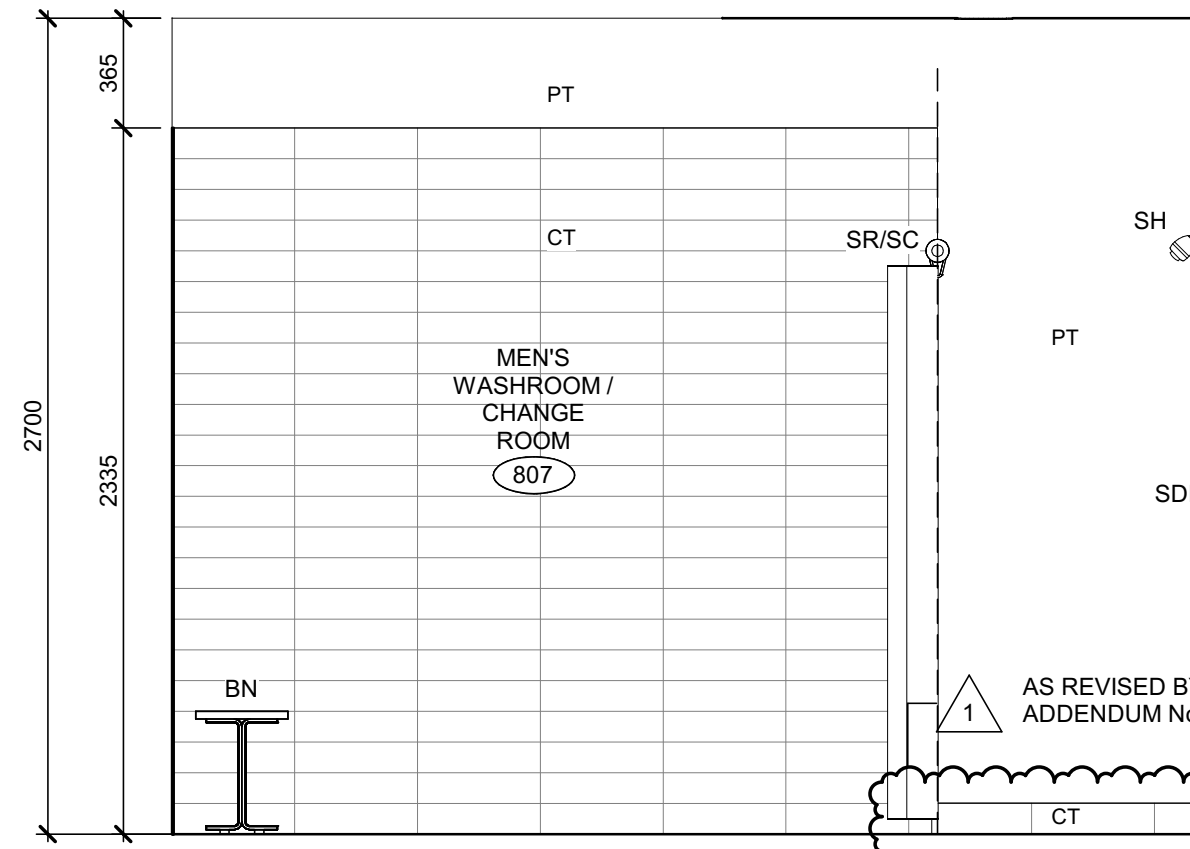
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EAST ELEVATION

SCALE : 1 : 25



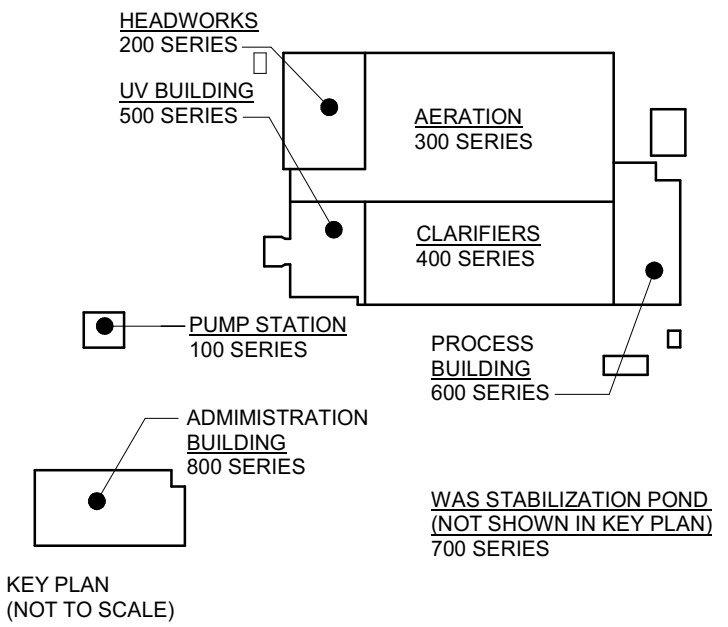
MEN'S WASHROOM - EAST  
ELEVATION

SCALE : 1 : 25



MEN'S WASHROOM - WEST  
ELEVATION

SCALE : 1 : 25



DESIGN DOCUMENTS HEREIN HAVE  
BEEN DESIGNED UNDER THE ONTARIO  
BUILDING CODE 2012.

1	ISSUED FOR ADDENDUM 4	28/05/2025
0	ISSUED FOR TENDER	25/04/2025
No.	ISSUE / REVISION	DDMMYY

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SCALE: As indicated

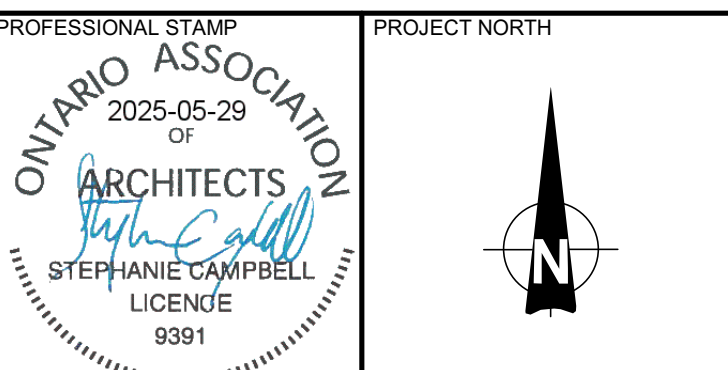
CLIENT:



CONSULTANT:



CONSULTANT:



PROJECT:

BRIGHTON WASTEWATER  
TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON, ONTARIO

DRAWING:  
ARCHITECTURAL  
ADMINISTRATION BUILDING  
ENLARGED WASHROOM PLANS  
AND ELEVATIONS

DESIGN:	SC/KA	DRAWING #:	A809
DRAWN:	NP		
CHECKED:	HB/SC		
JLR #:	32296-001		







AIR HANDLING UNIT SCHEDULE

I.D.	DESCRIPTION	FAN OPERATION					HEATING COIL				COOLING COIL					ENERGY RECOVERY WINTER (HEATING)				ENERGY RECOVERY SUMMER (COOLING)				WEIGHT	SOUND	ELECTRICAL				COMMENTS
		SUPPLY					TOTAL LOAD	EAT	LAT	AIR P.D.	TOTAL CAP.	SENSIBLE COOLING	EAT DBWB	LAT DBWB	AIR P.D.	SENSIBLE EFF.	LATENT EFF.	EAT (DB)	LAT (DB)	SENSIBLE EFF.	LATENT EFF.	EAT (DB)	LAT (DB)			FLA	MOCP	VOLT	PHASE	
		AIR FLOW	T.S.P.	E.S.P.	FAN RPM	POWER																								
		L/s	Pa	Pa		KW																								
AHU 9801	ADMINISTRATION AIR HANDLING UNIT	755	670	125	3200	1.49	14	-23	21	10	15.4	9.25	22.6	12.5	110	87.5	89.7	3.3	9.8	87.4	89.4	23.9	22.6	220	42	18	25	600	3	INTEGRAL VFD, ENERGY WHEEL
MUA 9201	HEADWORKS BUILDING MAKE-UP AIR UNIT	380	164	125	996	0.373	20	-23	20.8	10	NA	NA	NA	12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	219	49	23	30	600	3	

ENERGY AND HEAT RECOVERY UNIT SCHEDULE

I.D.	DESCRIPTION	FAN OPERATION						RECOVERY DATA						WEIGHT	ELECTRICAL				COMMENTS
		SUPPLY			EXHAUST			WINTER SENSIBLE EFFICIENCY	WINTER LATENT EFFICIENCY	WINTER TOTAL EFFICIENCY	SUMMER SENSIBLE EFFICIENCY	SUMMER LATENT EFFICIENCY	SUMMER TOTAL EFFICIENCY		FLA	MOCP	VOLT	PHASE	
		AIR FLOW	E.S.P.	POWER	AIR FLOW	E.S.P.	POWER												
		L/s	Pa	KW	L/s	Pa	KW												
ERV 9501	UV BUILDING ENERGY RECOVERY UNIT	991	125	1.5	991	249	1.5	63	47	58	63	36	46	354	12.4	20	208	3	
HRV 9601	PROCESS BUILDING HEAT RECOVERY UNIT	1586	125	2.24	1586	249	2.24	59	0	39	59	0	22	453	15.6	25	208	3	INTEGRAL VFD

ODOUR CONTROL UNIT SCHEDULE

I.D.	DESCRIPTION	FAN OPERATION					SOUND	ELECTRICAL				COMMENTS
		SUPPLY						FLA	LOAD	VOLT	PHASE	
		AIR FLOW	T.S.P.	E.S.P.	FAN RPM	POWER						
		L/s	Pa	Pa								
OCU 9201	HEADWORKS ODOUR CONTROL UNIT	472	2490	498	3265	3.72	110	6.1	5	600	3	

EXPANSION TANK SCHEDULE

I.D.	DESCRIPTION	TANK VOLUME	ACCEPT. VOLUME	HORIZ/VERT	DIMENSIONS		OPERATING PRESSURE
					DIA.	LENGTH	
					mmØ	mm	
ET-9501	DIAPHRAGM THERMAL EXP. TANK	24.2	12.1	VERT.	305	457	380
ET-9502	DIAPHRAGM THERMAL EXP. TANK	62.8	42.8	VERT.	381	635	380
ET-9601	DIAPHRAGM THERMAL EXP. TANK	62.8	42.8	VERT.	381	635	380
ET-9801	DIAPHRAGM THERMAL EXP. TANK	62.8	42.8	VERT.	381	635	380

ELECTRIC STEAM HUMIDIFIER SCHEDULE

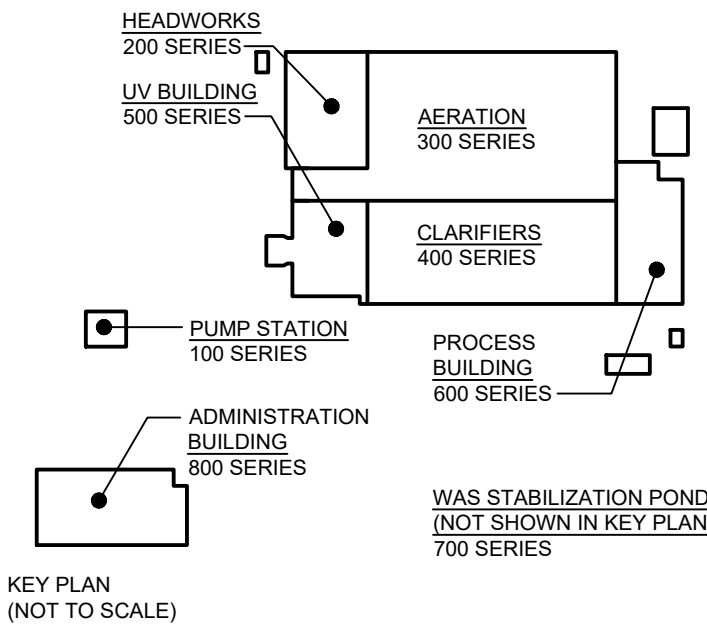
I.D.	DESCRIPTION	MANUF./MODEL	OUTPUT	DUCT SIZE	ELECTRICAL			CONTROL	COMMENTS
					KW	VOLT	PH		
			Kgh	mm x mm					
HUM-9801	ADMIN BUILDING HUMIDIFIER	CAREL JUE015XN0U1	10.4	450X300	11.25	600	3	BACNET ETHERNET CARD	

DOMESTIC WATER HEATER TANK SCHEDULE

I.D.	DESCRIPTION	LOCATION	MANUF./MODEL	RECOVERY CAPACITY		CONNECTION SIZE		ELECTRICAL					COMMENTS
				TEMP. RISE	L/m	H.W.	C.W.	ELEMENTS		POWER			
								QUANTITY	WATTAGE	KW	VOLT	PH	
				°C		mm	mm						
DHWT-9501	UV BUILDING MHW TANK	MECHANICAL ROOM 503	A.O. SMITH / 50D	55	0.5	19	19	1	2000	2	208	3	
DHWT-9502	UV BUILDING SHW TANK	MECHANICAL ROOM 503	RUUD / EVRO	55	3.91	38	38	1	15000	15	208	3	
DHWT-9601	PROCESS BUILDING DHW TANK	MECHANICAL ROOM 601	RUUD / EVRO	55	3.91	38	38	1	15000	15	208	3	
DHWT-9801	ADMIN BUILDING DHW TANK	MECHANICAL ROOM 810	RUUD / EVRO	55	3.91	38	38	1	15000	15	208	3	

UNIT HEATER & CABINET HEATER SCHEDULE

I.D.	DESCRIPTION	TYPE	OPERATING DATA		ELECTRICAL			COMMENTS
			CAPACITY	AIR FLOW	RATING	VOLTS	PH	
			KW	L/s	KW	V		
CUH 9501	ELECTRIC CABINET UNIT HEATER	CABINET	4	118	4	208	1	WALL MOUNT T-STAT
CUH 9601	ELECTRIC CABINET UNIT HEATER	CABINET	2	118	2	208	1	WALL MOUNT T-STAT
CUH 9602	ELECTRIC CABINET UNIT HEATER	CABINET	2	118	2	208	1	WALL MOUNT T-STAT
CUH 9801	ELECTRIC CABINET UNIT HEATER	CABINET	2	118	2	208	1	WALL MOUNT T-STAT
EBB 9801	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.3	NA	0.3	120	1	
EBB 9802	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.3	NA	0.3	120	1	
EBB 9803	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.3	NA	0.3	120	1	
EBB 9804	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1	NA	1	120	1	
EBB 9805	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1.5	NA	0.75	120	1	
EBB 9806	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9807	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9808	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9809	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1.25	NA	1.25	120	1	
EBB 9810	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1.5	NA	1.5	120	1	
EBB 9811	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.3	NA	0.3	120	1	
EBB 9812	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9813	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1	NA	1	120	1	
EBB 9814	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9815	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.5	NA	0.5	120	1	
EBB 9816	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.75	NA	0.75	120	1	
EBB 9817	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.5	NA	0.5	120	1	
EBB 9818	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1.25	NA	1.25	120	1	
EBB 9819	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	1	NA	1	120	1	
EBB 9820	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.3	NA	0.3	120	1	
EBB 9821	ELECTRIC BASEBOARD HEATER	WALL-MOUNTED	0.5	NA	0.5	120	1	
EUH 9201	ELECTRIC UNIT HEATER	WALL-MOUNTED	3	240.7	3	600	3	WALLMOUNT T-STAT
EUH 9202	ELECTRIC UNIT HEATER	WALL-MOUNTED	3	240.7	3	600	3	WALLMOUNT T-STAT
EUH 9203	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9204	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9205	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9301	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9302	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9303	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9501	ELECTRIC UNIT HEATER	WALL-MOUNTED	2	240.7	2	600	3	WALLMOUNT T-STAT
EUH 9502	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9503	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9504	ELECTRIC UNIT HEATER	WALL-MOUNTED	5	330.4	5	600	3	WALLMOUNT T-STAT
EUH 9601	ELECTRIC UNIT HEATER	WALL-MOUNTED	7.5	330.4	7.5	600	3	WALLMOUNT T-STAT
EUH 9602	ELECTRIC UNIT HEATER	WALL-MOUNTED	7.5	330.4	7.5	600	3	WALLMOUNT T-STAT
EUH 9603	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9604	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9605	ELECTRIC UNIT HEATER	WALL-MOUNTED	4	240.7	4	600	3	WALLMOUNT T-STAT
EUH 9606	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9607	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9608	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9609	ELECTRIC UNIT HEATER	WALL-MOUNTED	10	330.4	10	600	3	WALLMOUNT T-STAT
EUH 9801	ELECTRIC UNIT HEATER	WALL-MOUNTED	2	240.7	2	600	3	WALLMOUNT T-STAT



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1	ISSUED FOR ADDENDUM NO. 4	02/06/25
0	ISSUED FOR TENDER	25/04/25

No.	ISSUE / REVISION	DDMMYY
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CONSULTANT: www.jrichards.ca



CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT:

BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES

100 COUNTY ROAD 64, BRIGHTON ONTARIO

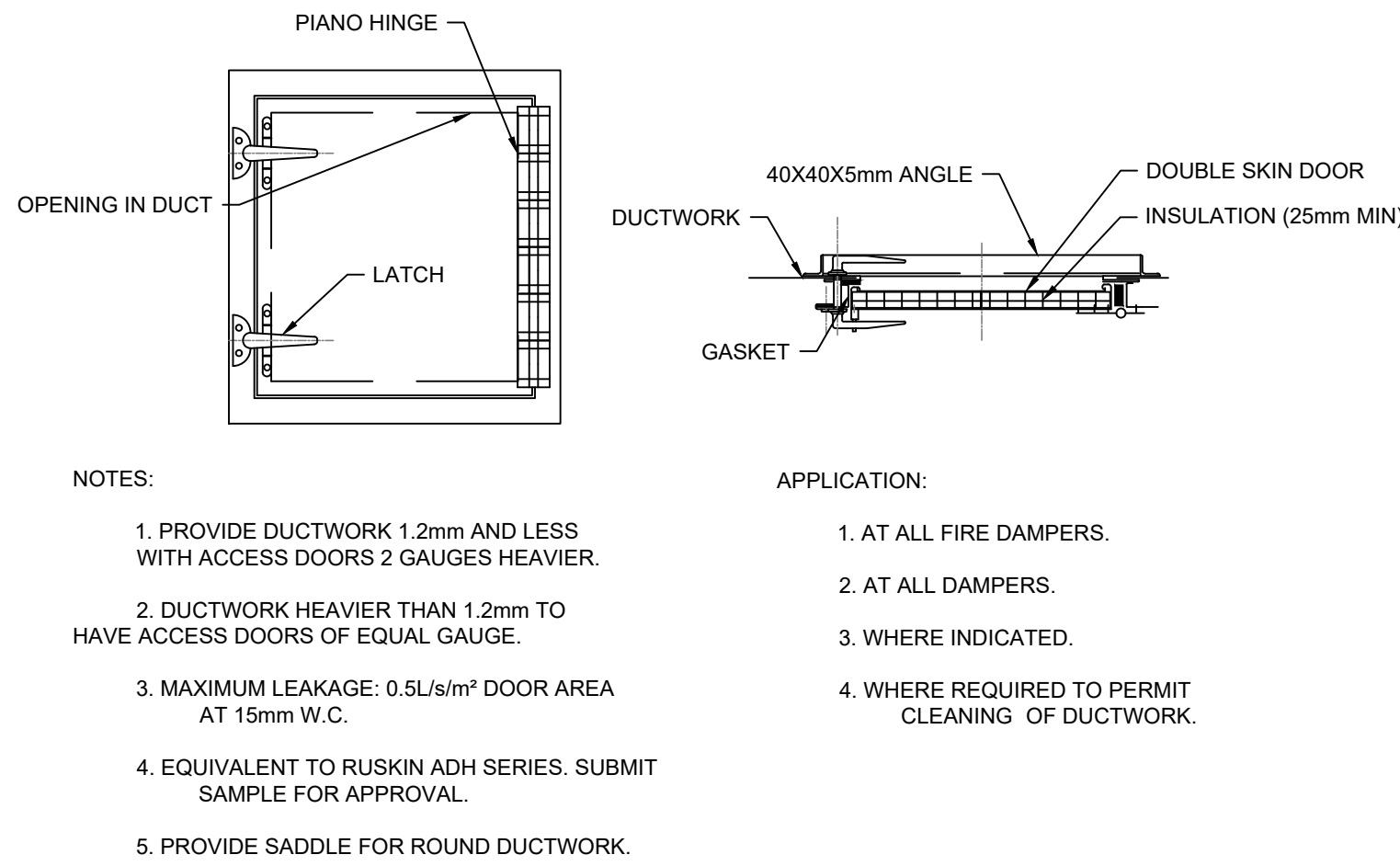
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MECHANICAL SITE WIDE MECHANICAL SCHEDULES SHEET 1

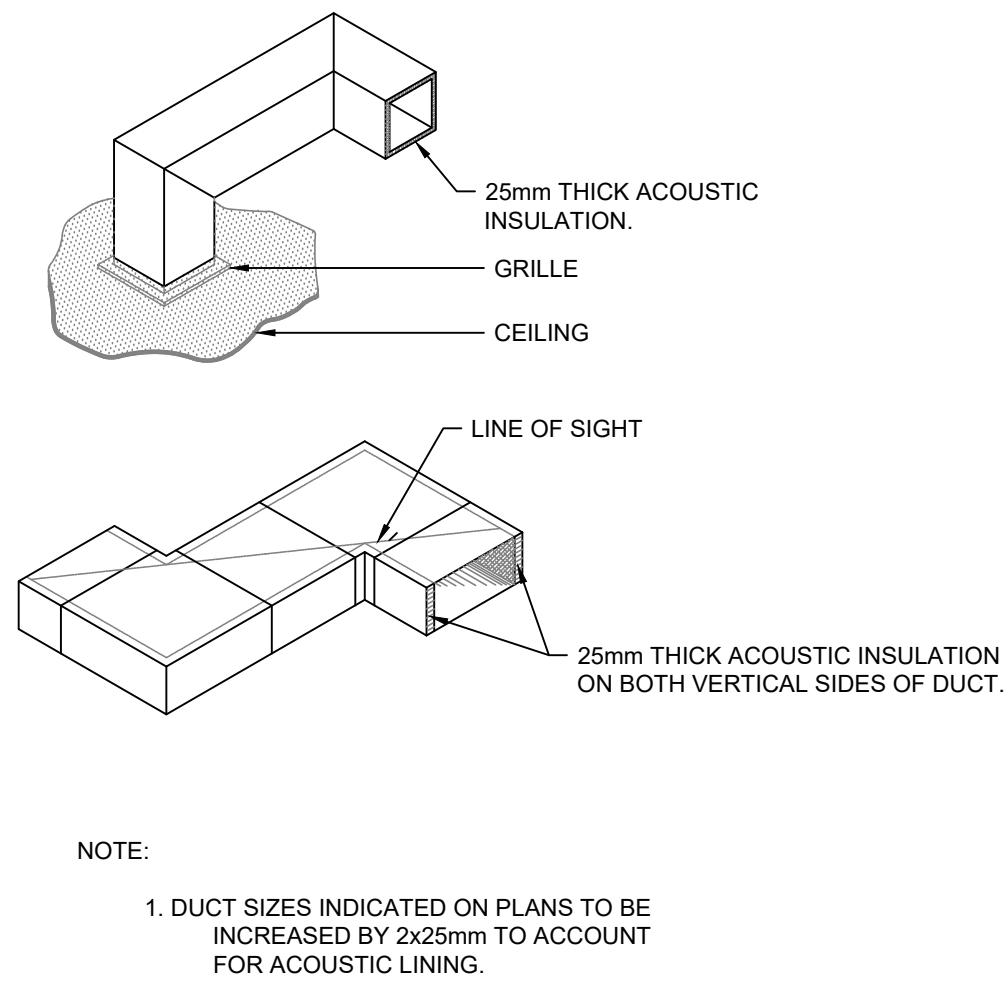
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JLR #:	32296-001



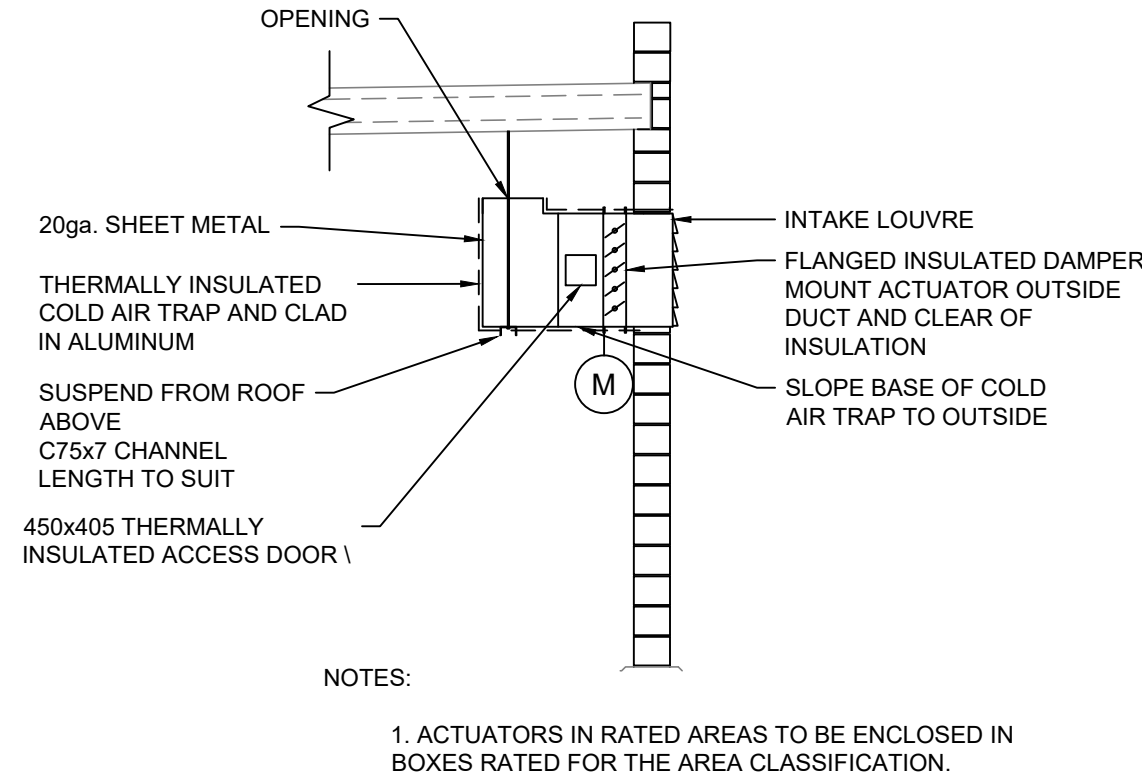
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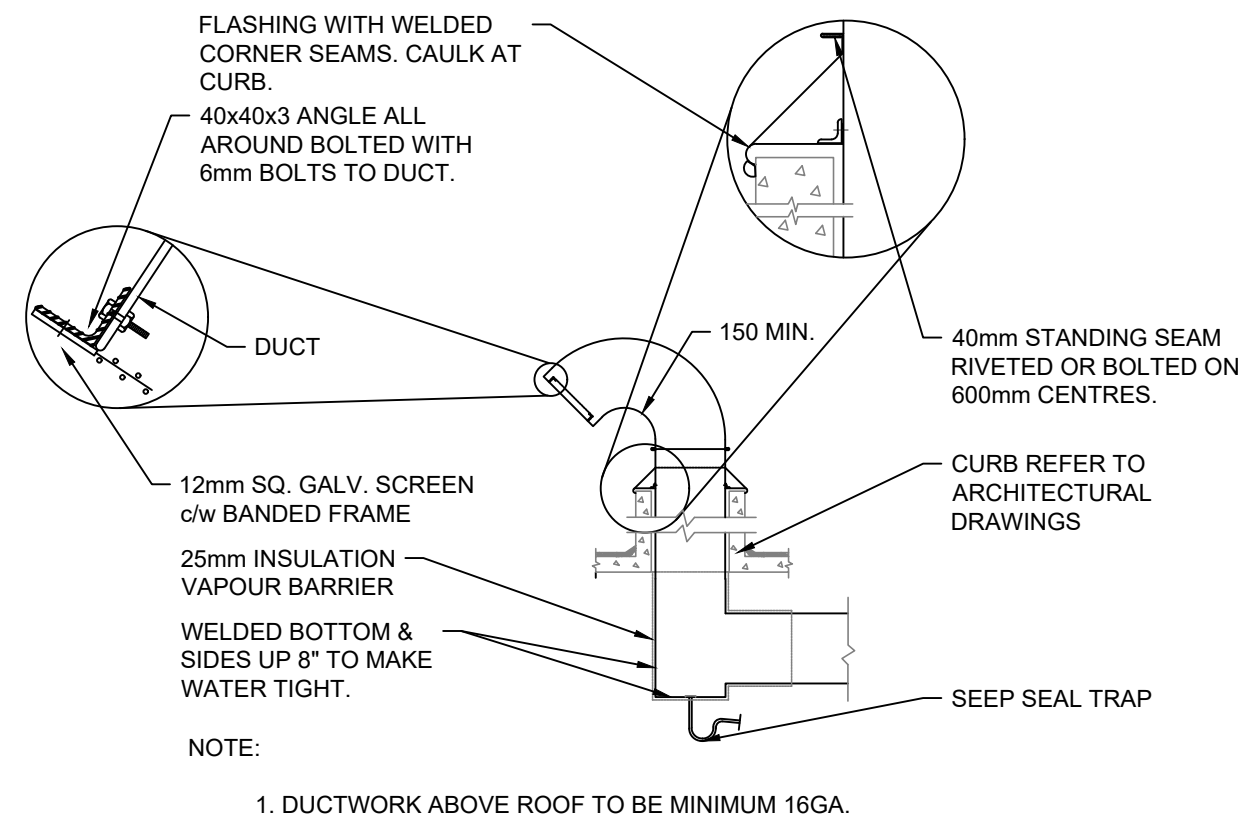
1 ACCESS DOOR  
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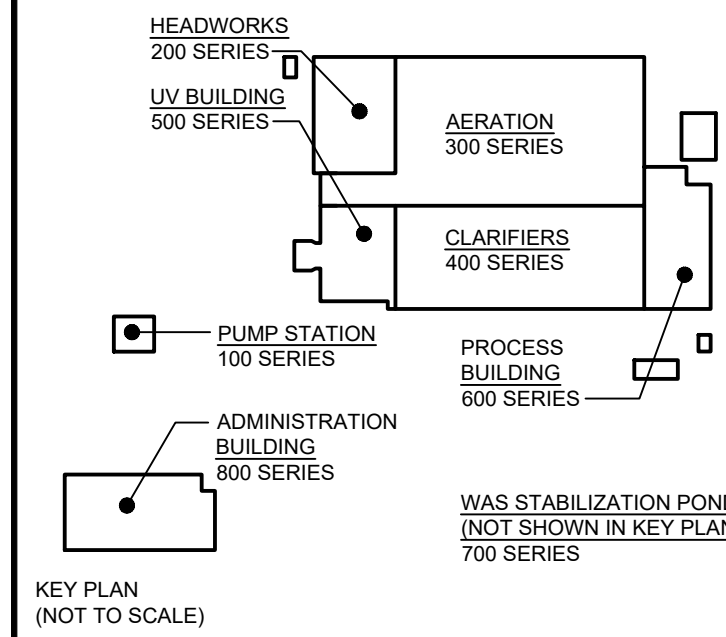
2 ACOUSTIC TRANSFER DUCT  
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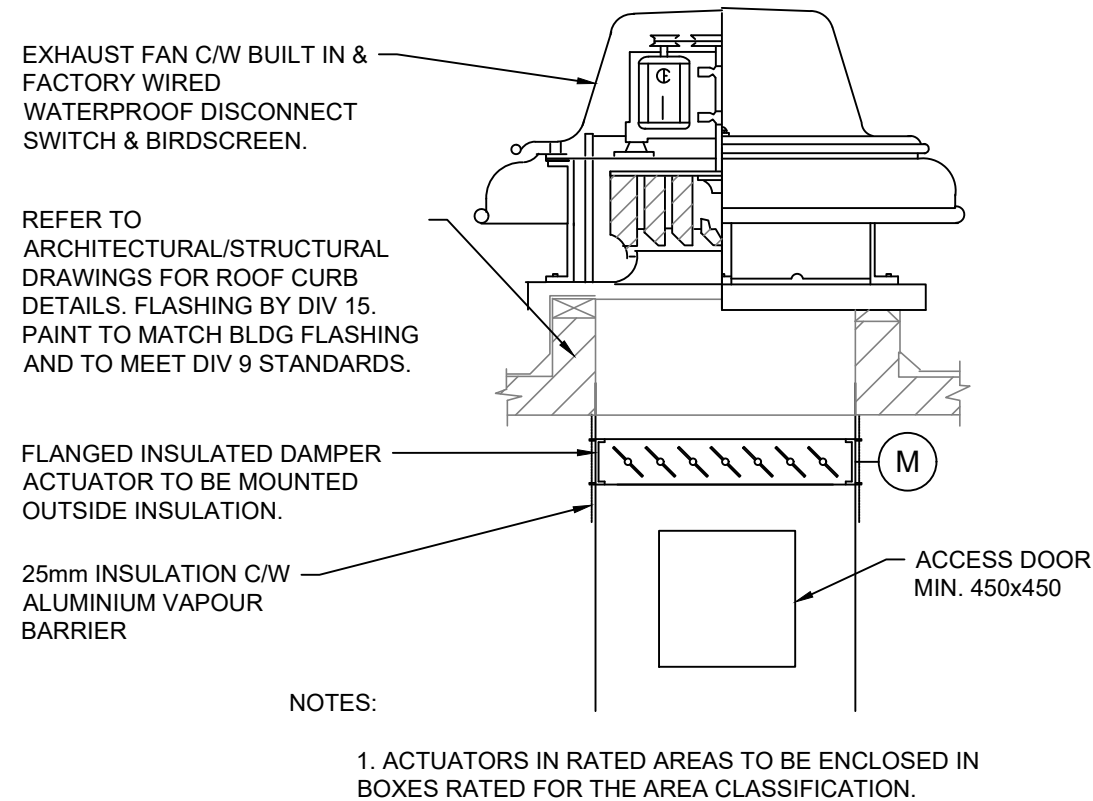
3 OUTDOOR AIR INTAKE DETAIL  
PM005 SCALE: N.T.S.



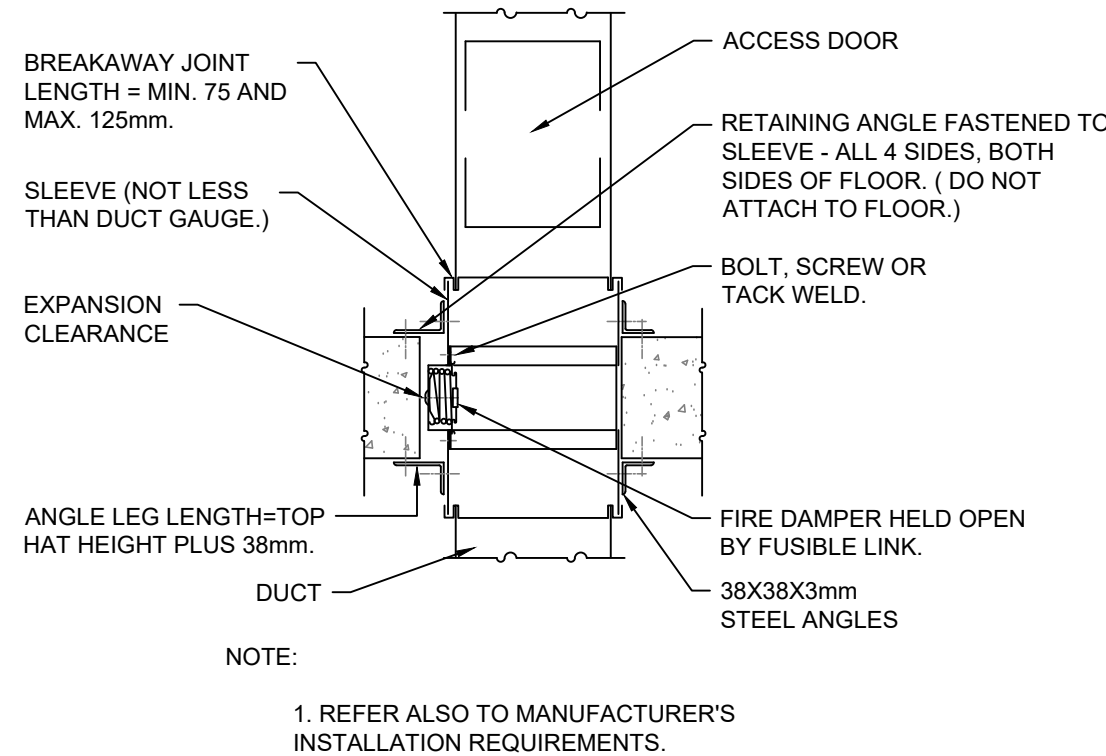
4 GOOSE NECK  
PM005 SCALE: N.T.S.



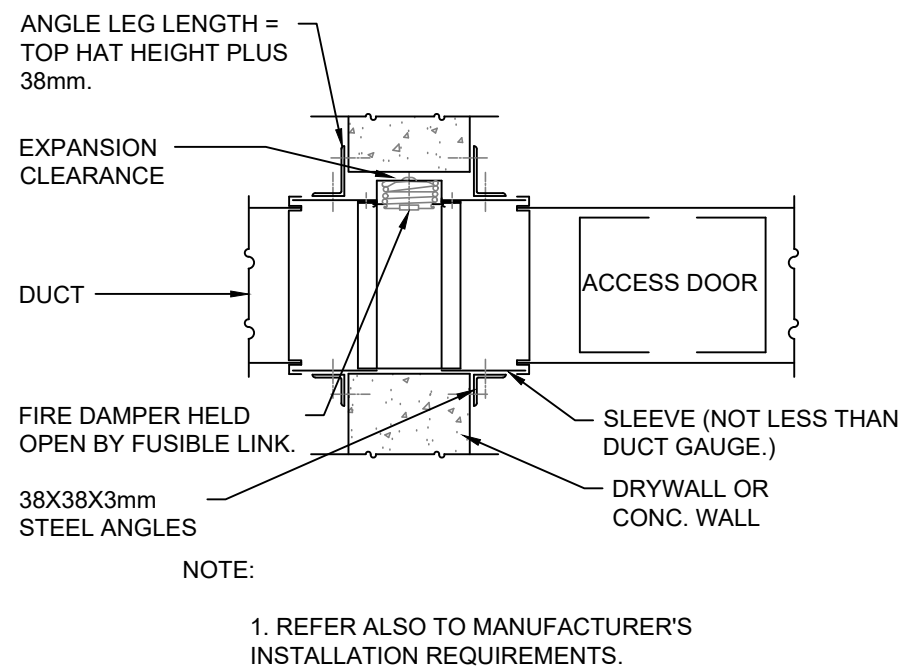
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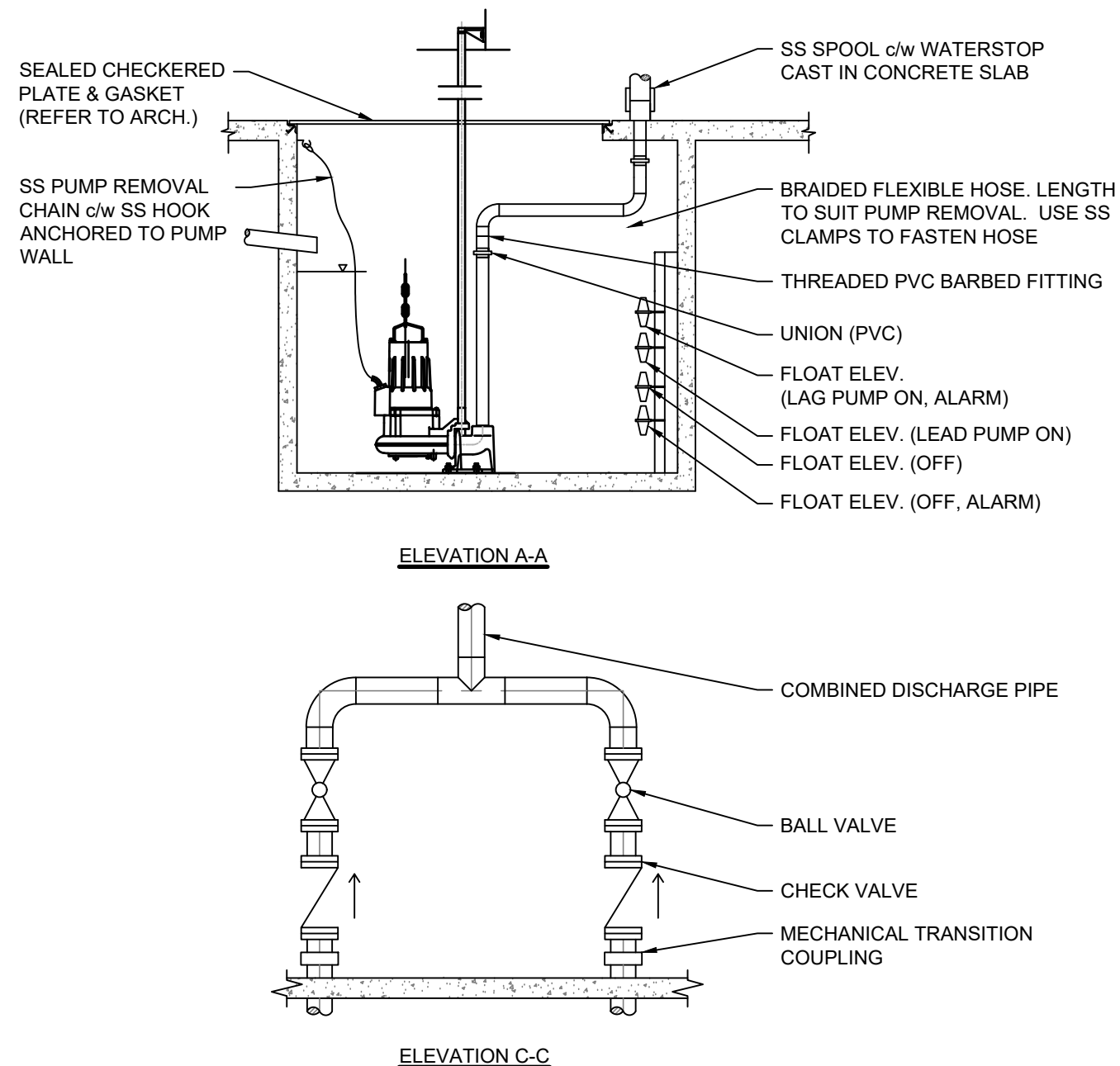
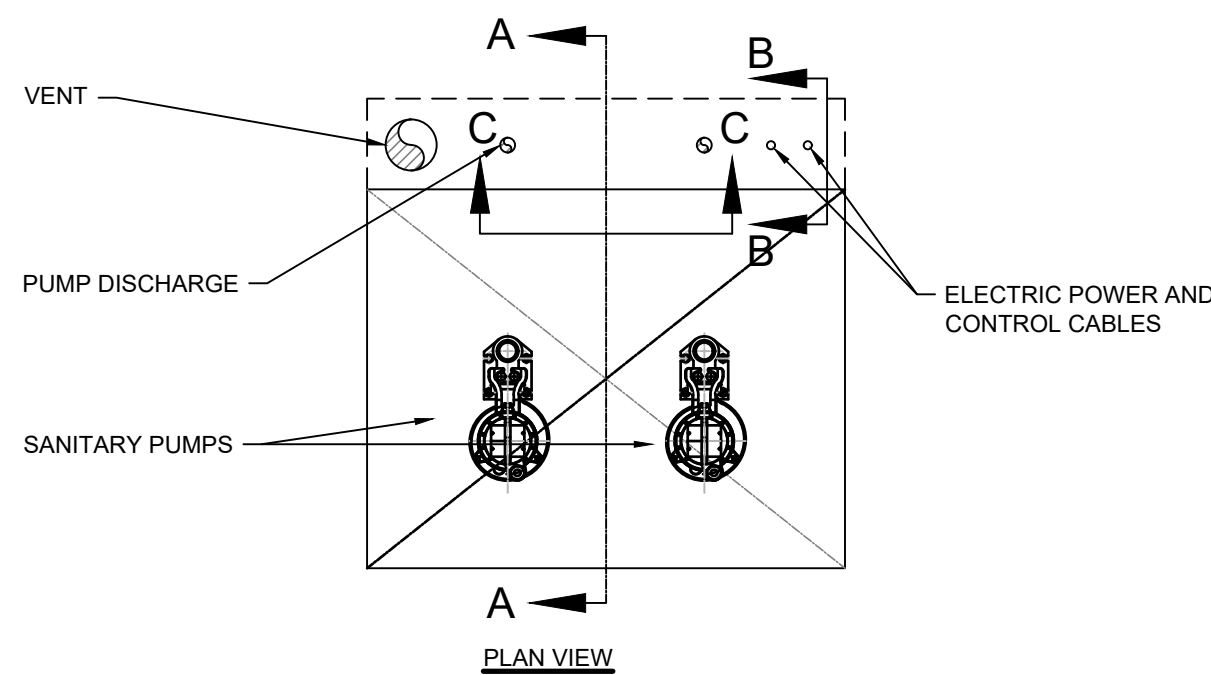
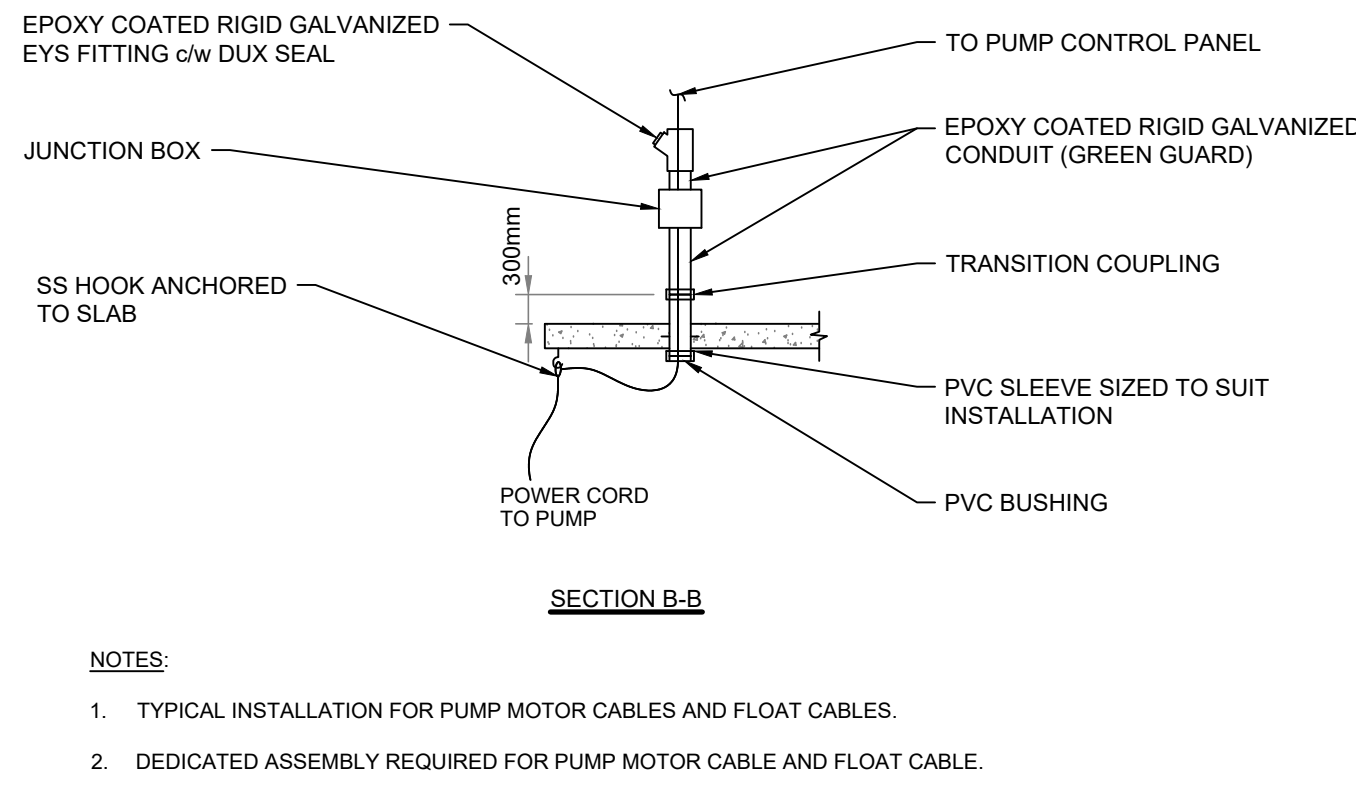
5 TYPICAL ROOF MOUNTED EXHAUST FAN  
PM005 SCALE: N.T.S.



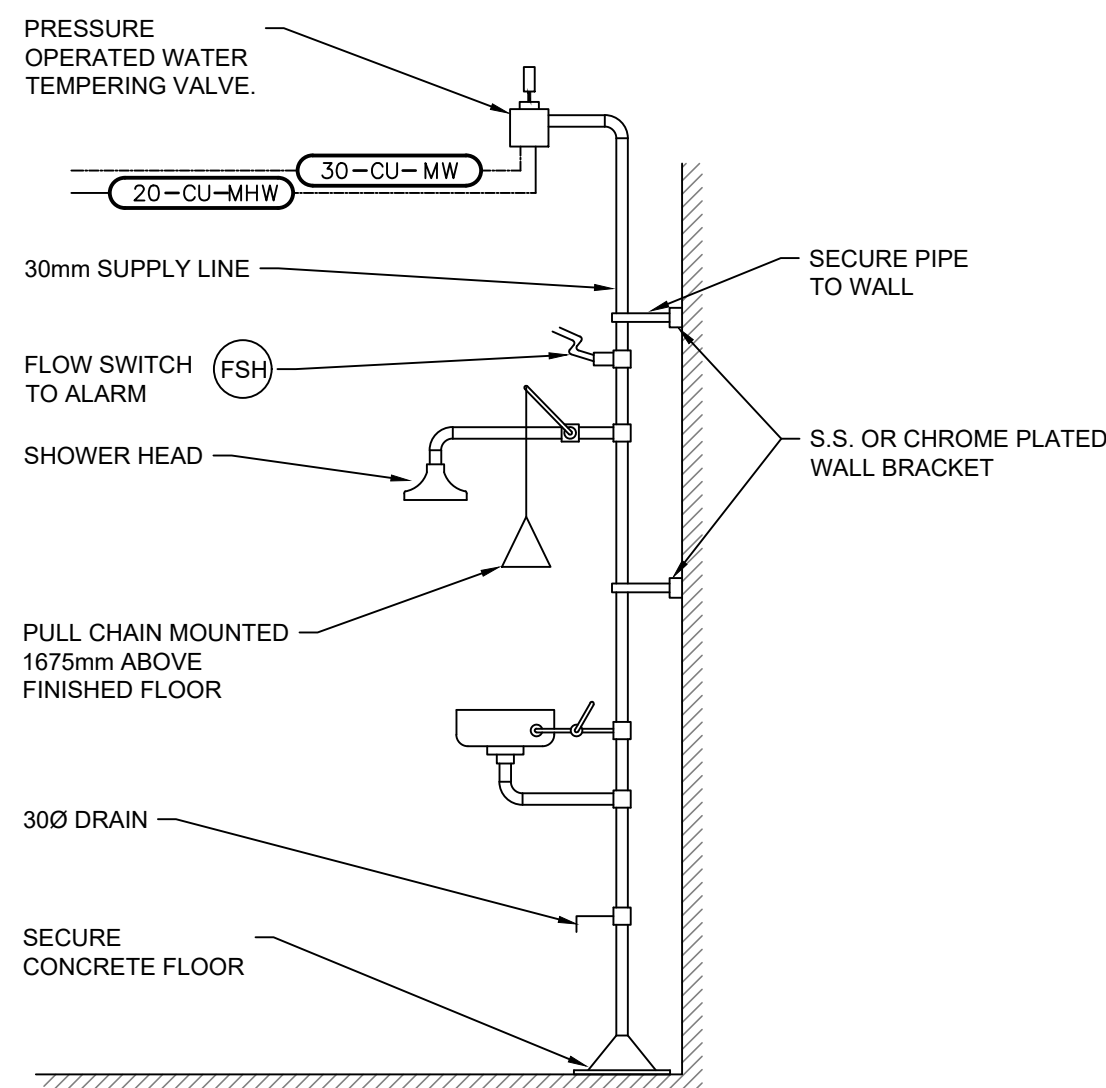
6 FIRE DAMPER VERTICAL TYPE  
PM005 SCALE: N.T.S.



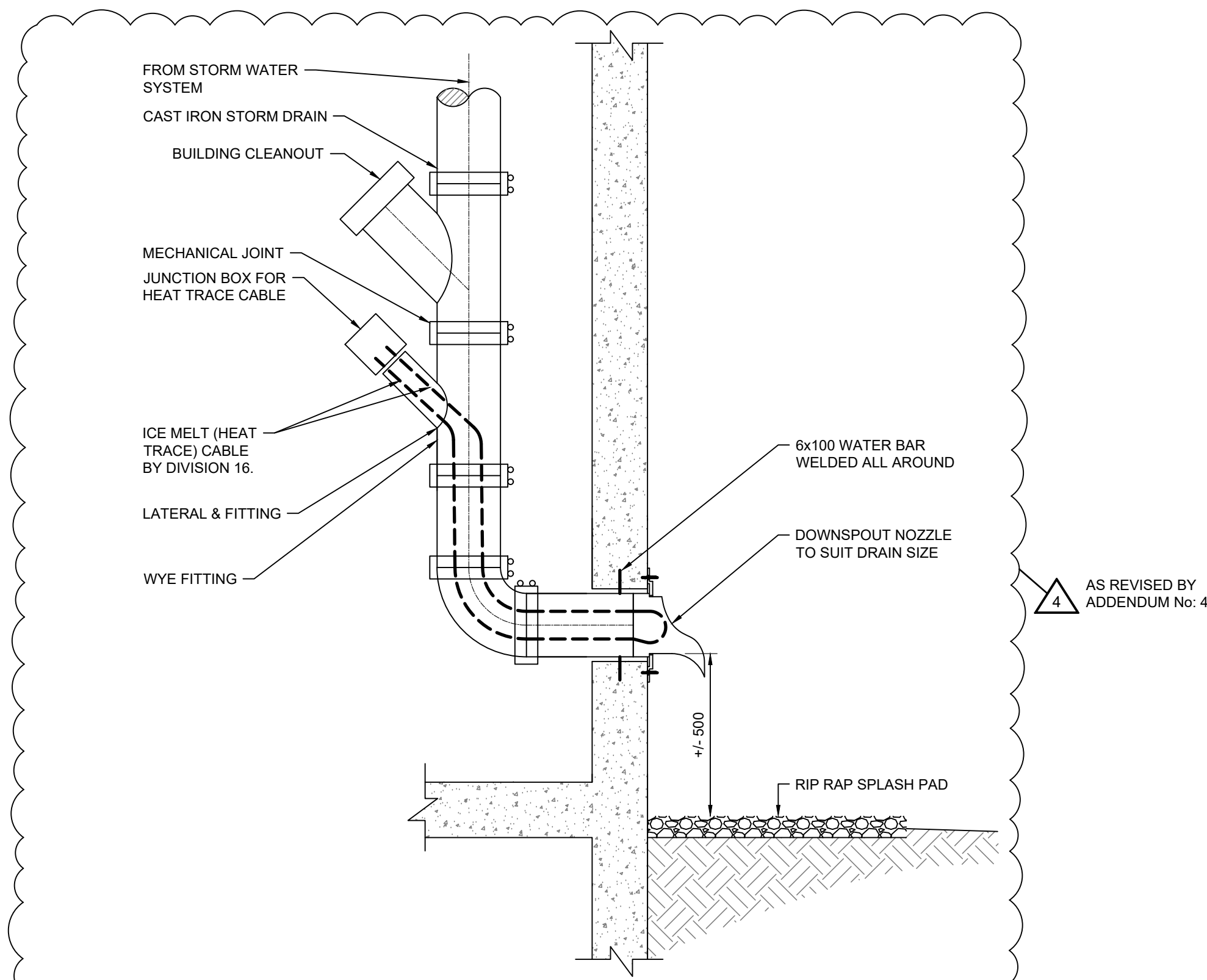
7 FIRE DAMPER HORIZONTAL TYPE  
PM005 SCALE: N.T.S.



11 SANITARY DUPLEX SUMP PUMP DETAIL  
PM005 SCALE: N.T.S.



8 EMERGENCY EYE WASH & SHOWER  
PM005 SCALE: N.T.S.



10 STORM WATER HEAT TRACE DRAIN DETAIL  
PM005 SCALE: N.T.S.

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SCALE: NTS

CLIENT:  
**BRIGHTON MUNICIPALITY**  
CONSULTANT:  
**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:  
**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

PROJECT:  
**BRIGHTON WASTEWATER TREATMENT SYSTEM UPGRADES**  
100 COUNTY ROAD 64, BRIGHTON ONTARIO  
DRAWING:  
**PROCESS AND INSTRUMENTATION SITE WIDE**  
**PROCESS AND MECHANICAL STANDARD DETAILS**

DESIGN: KP/CW  
DRAWN: JV/EH  
CHECKED: TP  
JLR #: 32296-001  
DRAWING #: **PM005**

PLOT DATE: Friday, May 30, 2025 1:17:26 PM