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GENERAL NOTES:

1. THE WORK CONSIST OF AS-BUILDING THE EXISTING PLUMBING SYSTEMS AS SHOWN IN THE DRAWINGS.
2. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTING, VALVE AND APPLIANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS ARE FURNISHED AND INSTALLED.
3. EXACT LOCATION OF EXISTING UTILITIES (WATERLINES, SANITARY SEWER LINES, SANITARY MANHOLES, STORM SEWER LINES & STORM MANHOLES) ARE SHOWN AND SOME ARE FOR VERIFICATION AT SITE.
4. NOT ALL UNDERGROUND SUMP DISCHARGE PIPES ARE GALVANIZED IRON PIPE & FITTINGS.
5. PIPE MATERIALS USED FOR SEWERAGE SYSTEM ARE ASBESTOS CONCRETE PIPES AND PVC PIPES.
6. PIPE MATERIALS USED FOR STORM DRAINAGE ARE ASBESTOS CONCRETE PIPES AND PVC PIPES.
7. DOWNSPOUTS, SOIL STACKS, VENT STACKS AND RISER ARE EMBEDDED THRU WALLS, BEAMS, FLOORS, AND COLUMNS.
8. POTABLE WATER LINE MATERIALS ARE CAST-IRON (CI) PIPES AND PVC BLUE.
9. CONDENSATE DRAIN ARE NOT INSULATED WITH FLEXIBLE CLOSED CELL ELASTOMETRIC RUBBER INSULATION.
10. ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
11. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY SUCH THAT WHAT IS NOTED IN ONE, ALTHOUGH NOT INDICATED OR MENTIONED IN THE OTHER SHALL BE CONSIDERED CONTAINED IN ALL.
12. ALL PIPE SIZES INDICATED IN DRAWING ARE NOMINAL & IN REFERENCE TO ITS EXTERNAL DIAMATER.
13. ALL INFORMATION SHOWN ON THE AS-BUILT PLAN IS BASE ON OCULAR INSPECTION OF THE FACILITY AND MAY NOT REFLECT THE EXACT AS-BUILT CONDITIONS.

PIPE SIZE EQUIVALENT:											
EQUIVALENT	NOMINAL SIZE										
G.I PIPE SIZE	INSIDE DIAMETER	IN	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	
PPR PIPE SIZE	OUTSIDE DIAMETER	IN	20	25	32	40	50	65	75	90	
BASIS OF DESIGN	INSIDE DIAMETER	IN	15	20	25	32	40	50	63	75	

PIPE SIZE (mm)	CONDENSATE DRAIN LINE THICKNESS OF INSULATION (mm)	HOT WATER LINE THICKNESS OF INSULATION (mm)
25 AND SMALLER	20	25
32 TO 50	25	32
65 TO 200	32	40

ABBREVIATION AND PIPE TYPES		
ABBREV.	DISCRPTION	PIPE TYPES
SP	SOIL PIPE	PVC
SS	SOIL PIPE	PVC
VP	VENT PIPE	PVC
VS	VENT STACK	PVC
VSTR	VENT STACK TRU ROOF	SEE DETAILS
ACDP	AIRCON DRAIN PIPE	PVC BLUE
DP	DRAIN PIPE	PVC
DS	DOWN SPOT	PVC
PP	PERFORATED PIPE	PVC
CWL	COLD WATERLINE	PPR
FC	FLEXIBLE CONNECTION	
YS	WYE STRAINER	
FV	FLOAT VALVE	
MH	MANHOLE	
BPCP	BOOSTER PUMP CONTROL PANEL	
BT	BLADDER TANK	
BP1	BOOSTER PUMP 1	
BP2	BOOSTER PUMP 2	

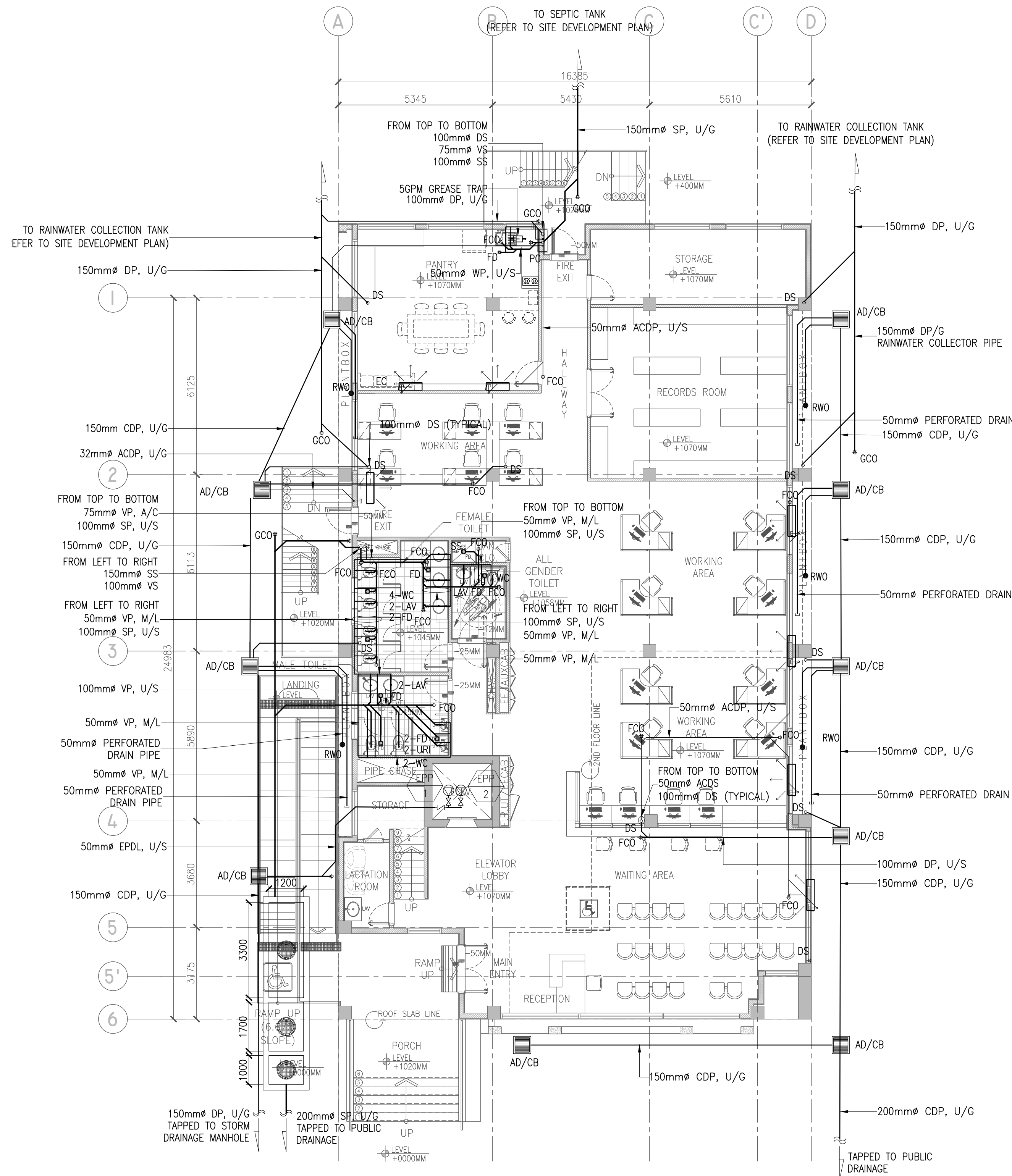
LEGEND & SYMBOLS		
DESCRIPTION	ABBREVIATION	LEGEND & SYMBOLS
BOOSTER WATER LINE	BWL	— — — —
COLD WATER LINE	CWL	— — — —
POTABLE WATER LINE	PWL	— — — —
SOIL PIPE	SP	————
WASTE PIPE	WP	————
DRAINAGE PIPE	DP	— — — —
VENT PIPE	VP	- - - - -
COLD WATER RISER	CWR	————○
SOIL STACK	SS	————○
VENT STACK	VS	- - - - -
VENT STACK THRU ROOF	VSTR	↔→
KITCHEN SINK	KS	○
WATER CLOSET	WC	○
WATER HAMMER ARRESTER	WHA	—□
WATER METER	WM	Ⓜ
WATER HEATER	WH	☞☛
GATE VALVE	GV	⌞⌟
CHECK VALVE	CV	⌞⌟
FLOOR CLEAN OUT	FCO	⊕—
CEILING CLEAN OUT	CCO	⊖—
TRENCH DRAIN	TD	▤
CATCH BASIN	CB	▣
FLOOR DRAIN	FD	▣
SCUPPER DRAIN	SCD	⌚
PLANTERS DRAIN	PLD	●
DOWN SPOUT	DS	○
LAVATORY	LAV	○
STUB-OUT	SO	⌞
AIRCON DRAIN PIPE	ACDP	- - - - -
AIRCON DRAIN STACK	ACDS	- - - - -
EQUIPMENT MARK		⬡
AIR VENT	AV	⊕↻
GREASE TRAP	GT	
ABOVE CEILING	A/C	
UNDERSLAB	U/S	
UNDERGROUND	U/G	
PIPE DOWN	DN	
PIPE UP	UP	
TO BELOW	T/B	
FROM ABOVE	F/A	
MID-LEVEL	M/L	
HIGH-LEVEL	H/L	
FROM BELOW	F/B	
TO ABOVE	T/A	

TANK SCHEDULE						
MARK	DATA DESIGNATION	SERVICE	LOCATION	QUANTITY	CAPACITY (GAL.)	REMARKS
RWT/1	RAINWATER TANK-1	NON-POTABLE RESERVED TANK	AT PARKING AREA	1 UNIT (3 CHAMBERS)	1159	1 DAY DETENTION TIME. UNDERGROUND NON-POTABLE DOMESTIC WATER TANK.
CT/1	CISTERN TANK-1	POTABLE RESERVED TANK	AT PARKING AREA	1 UNIT (2 CHAMBERS)	2113.6	1.5 DAY DETENTION TIME. UNDERGROUND POTABLE DOMESTIC WATER TANK.
OHWT/1	OVERHEAD WATER TANK-1	CISTERN TANK-1	AT ROOF DECK	STAINLESS STEEL TANK	200 EA.	1.5 DAY DETENTION TIME. OVERHEAD POTABLE DOMESTIC WATER TANK.
BT/1	BLADDER TANK -1	CONSTANT PRESSURE SYSTEM (POTABLE)	PUMP ROOM OF ROOF DECK	1 UNIT	40	COMPLETE WITH BASIC ACCESSORIES & SUPPORT PAD. VERTICAL MOUNTED DIAPHRAGM TANK. (VERIFY SUPPLIER) CUT - IN PRESSURE = 45PSI CUT - OFF PRESSURE =65 PSI
BT/2	BLADDER TANK -2	CONSTANT PRESSURE SYSTEM (NON-POTABLE)	AT PARKING AREA	1 UNIT	130	COMPLETE WITH BASIC ACCESSORIES & SUPPORT PAD. VERTICAL MOUNTED DIAPHRAGM TANK. (VERIFY SUPPLIER) CUT - IN PRESSURE = 89 PSI CUT - OFF PRESSURE = 109 PSI
ST/1	SEPTIC TANK-1	SEWAGE PIT	AT PARKING AREA	1 UNIT (3 CHAMBER)	2113.6	EMBEDDED UNDERGROUND. SHALL MAINTAIN DESIGNATED FREE BOARD. COMPLETE WITH TANK ACCESSORIES AND MANHOLE COVERS. SHALL COORDINATE TO OTHER TRADES REGARDING TANK FOOTPRINT ACCORDING TO SITE CONDITION. REINFORCED CONCRETE (VERIFY STRUCTURAL)

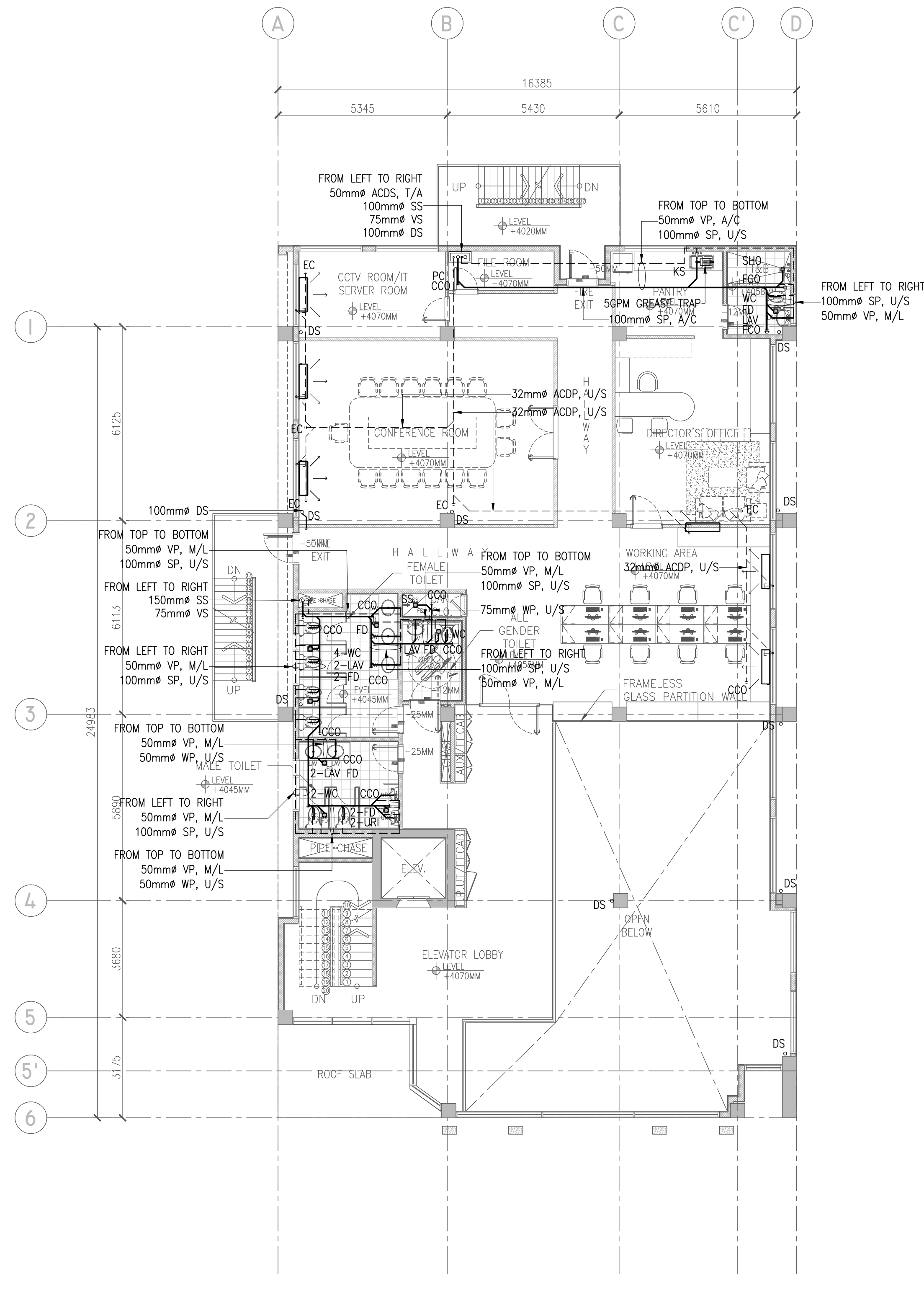
WATER HEATER SCHEDULE														
MARK	DATA DESIGNATION	QTY.	SERVICE	TYPE	LOCATION	INPUT DATA			CAPACITY LITERS	MOTOR POWER INPUT (KW)	ELECTRICAL CHARACTERISTICS			REMARKS
						INCOMING TEMPERATURE (°C)	OUTPUT TEMPERATURE (°C)	TEMPERATURE DIFFERENTIAL			VOLTS	PH	HZ	
EW/H/1	ELECTRIC WATER HEATER - 1	4	HOT WATER SUPPLY SYSTEM	SINGLE POINT - INSTANTANEOUS	AT T&B	29	60-65	31-36	FLOWRATE: 2 L/MIN	3.5	230	1	60	SHALL BE WALL MOUNTED UNDER THE LAVATORY. COMPLETE WITH STANDARD ACCESSORIES AND SUPPORTS. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.

PUMP SCHEDULE															
MARK	DATA DESIGNATION	QTY.	SERVICE	TYPE	LOCATION	DRIVE	PUMP RATING		MOTOR RATING						REMARKS
							CAPACITY (GPM)	TQH (ft)	HP	KW	RPM	VOLTS	PH	HZ	
BP/1	BOOSTER PUMP -1	1	DUPLEX TYPE BOOSTER PUMP (POTABLE)	VERTICAL IN LINE PUMP (POTABLE)	AT ROOF DECK PUMP ROOM	ELECTRIC MOTOR, CLOSED COUPLED	38	151	2.5	1.87	3500	230	1	60	VERTICAL IN LINE BOOSTER PUMP. COMPLETE WITH PUMP MOTOR, BOOSTER PUMP CONTROL PANEL, DRIVERS, VFD & STANDARD ACCESSORIES. SHALL SERVE TRANSFERRING POTABLE WATER FROM CISTERN TO WATER DISTRIBUTION SYSTEM. SHALL BE HOOKED TO THE EMERGENCY GENERATOR. 1 DUTY AND 1 STAND-BY.
BP/2	BOOSTER PUMP -2	1					38	151	2.5	1.87	3500	230	1	60	
BP/3	BOOSTER PUMP -3	1	DUPLEX TYPE BOOSTER PUMP (NON-POTABLE)	SUBMERSIBLE PUMP (NON-POTABLE)	AT PARKING AREA	ELECTRIC MOTOR, CLOSED COUPLED	87	252	10	7.46	3500	230	3	60	SUBMERSIBLE BOOSTER PUMP. COMPLETE WITH PUMP MOTOR, BOOSTER PUMP CONTROL PANEL, DRIVERS, VFD & STANDARD ACCESSORIES. SHALL SERVE TRANSFERRING POTABLE WATER FROM CISTERN TO WATER DISTRIBUTION SYSTEM. SHALL BE HOOKED TO THE EMERGENCY GENERATOR. 1 DUTY AND 1 STAND-BY.
BP/4	BOOSTER PUMP -4	1					87	252	10	7.46	3500	230	3	60	
TP/1	TRANSFER PUMP -1	1	DUPLEX TYPE TRANSFER PUMP (SCHOOL)	VERTICAL TURBINE PUMP	AT PARKING AREA	ELECTRIC MOTOR, CLOSED COUPLED	40	123	2	1.49	3500	230	1	60	VERTICAL TURBINE PUMP. COMPLETE WITH DISCHARGE HEAD ASSEMBLY, AIR RELEASE, PRESSURE GAUGE, COUPLED TO AN ELECTRIC MOTOR W/ VFD ENCLOSURE 445TH FRAME AND OTHER STANDARD ACCESSORIES. SHALL SERVE TRANSFERRING POTABLE WATER FROM CISTERN TO MID-LEVEL TANK. SHALL BE HOOKED TO THE EMERGENCY GENERATOR. RUNS ALTERNATING 1 DUTY AND 1 STAND-BY.
TP/2	TRANSFER PUMP -2						40	123	2	1.49	3500	230	1	60	
EPP/1	ELEVATOR PIT PUMP -1	1	ELEVATOR PIT DOWATERING	SUBMERSIBLE PUMP	GROUND FLOOR ELEVATOR	ELECTRIC MOTOR, CLOSED COUPLED	20	36	0.5	0.37	3500	230	1	60	SUBMERSIBLE NON-CLOG TRANSFER DRAINAGE PUMP. COMPLETE WITH PUMP, SUMP PUMP CONTROL PANEL, GUIDE RAIL HOLDER, DRIVERS & OTHER STANDARD ACCESSORIES. SHALL BE BUILT IN MOTOR PROTECTION & LEAK-PROOF CONNECTION, HOOKED TO EMERGENCY GENERATOR. RUNS ALTERNATING 1 DUTY AND 1 STAND-BY.
EPP/2	ELEVATOR PIT PUMP -2						20	36	0.5	0.37	3500	230	1	60	

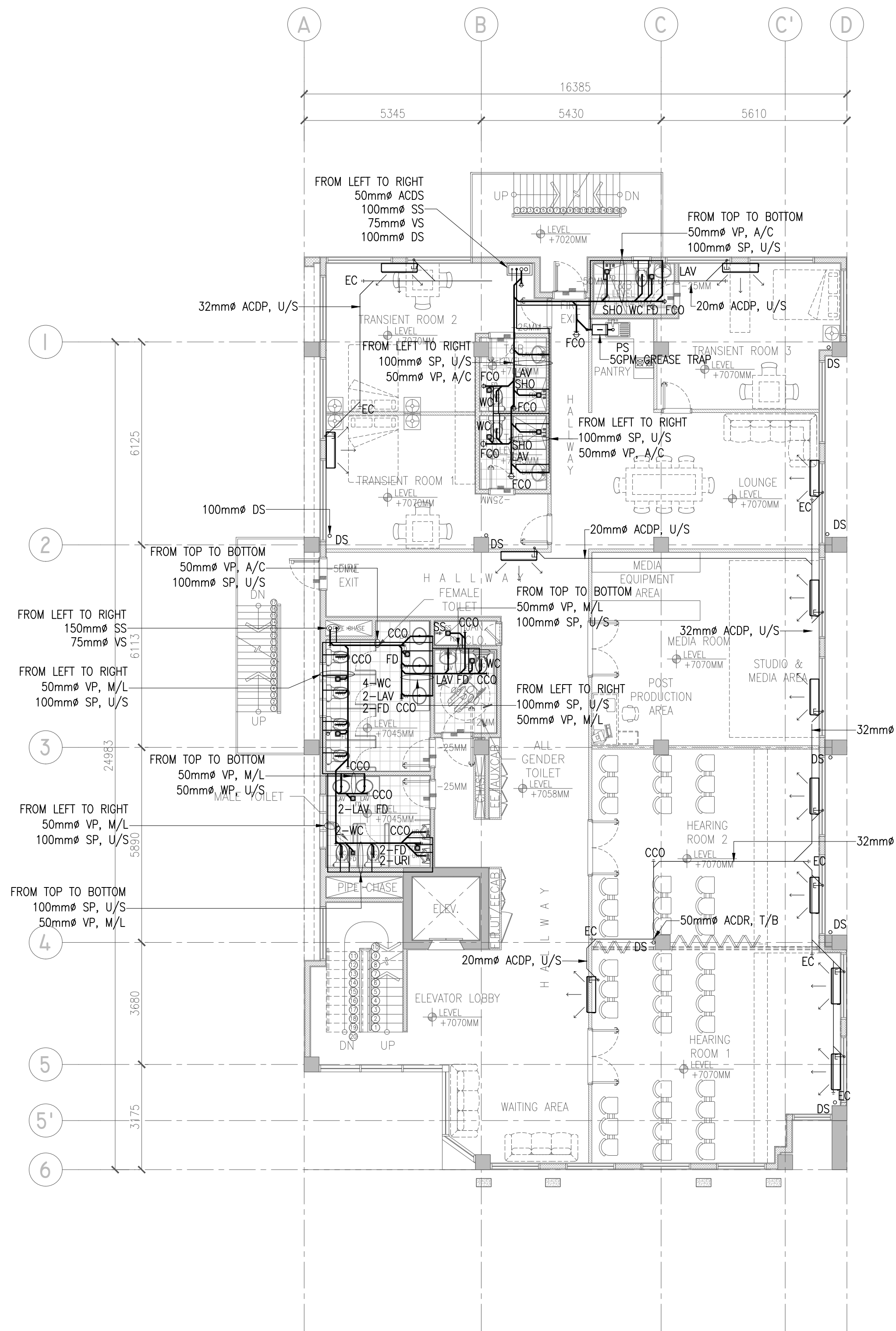
 Securities and Exchange Commission P H I L I P P I N E S	CHECKED AND SUBMITTED BY			PROJECT TITLE/LOCATION		RECOMMENDING APPROVAL		APPROVED BY		SHEET CONTENTS		R.A. 9266 SEC. 33		CADD	DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.		
	ALDEN C. ONG M.Eng., ASEP SEC-HTC		REG. NO.: 68251	PROPOSED RETROFITTING AND RENOVATION OF THE SEC DAVAO EXTENSION OFFICE		VHINCENT G. CAÑARES SEC DIRECTOR, MSD		JAVEY PAUL D. FRANCISCO COMMISSIONER		DRAWING INDEX, GENERAL NOTES, PIPE SIZE EQUIVALENT, ABBREVIATION, AND LEGEND & SYMBOLS		DRAWINGS AND SPECIFICATIONS AND CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS FOR SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS.		CCR	JUL 2024					20X30	P-000		
			TIN NO. : 168-950-786													DESIGNED	DATE						
			PTR NO. : 10077889											PABLO P. TAMAYO JR.		JOT/BDA	JUL 2024					SCALE	PROJECT NO.
			DATE : JANUARY 05, 2024											SANITARY ENGINEER		APPROVED	DATE						
		PLACE : MAKATI CITY	UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY										PPT	JUL 2024					AS SHOWN	DE-G-24-006			



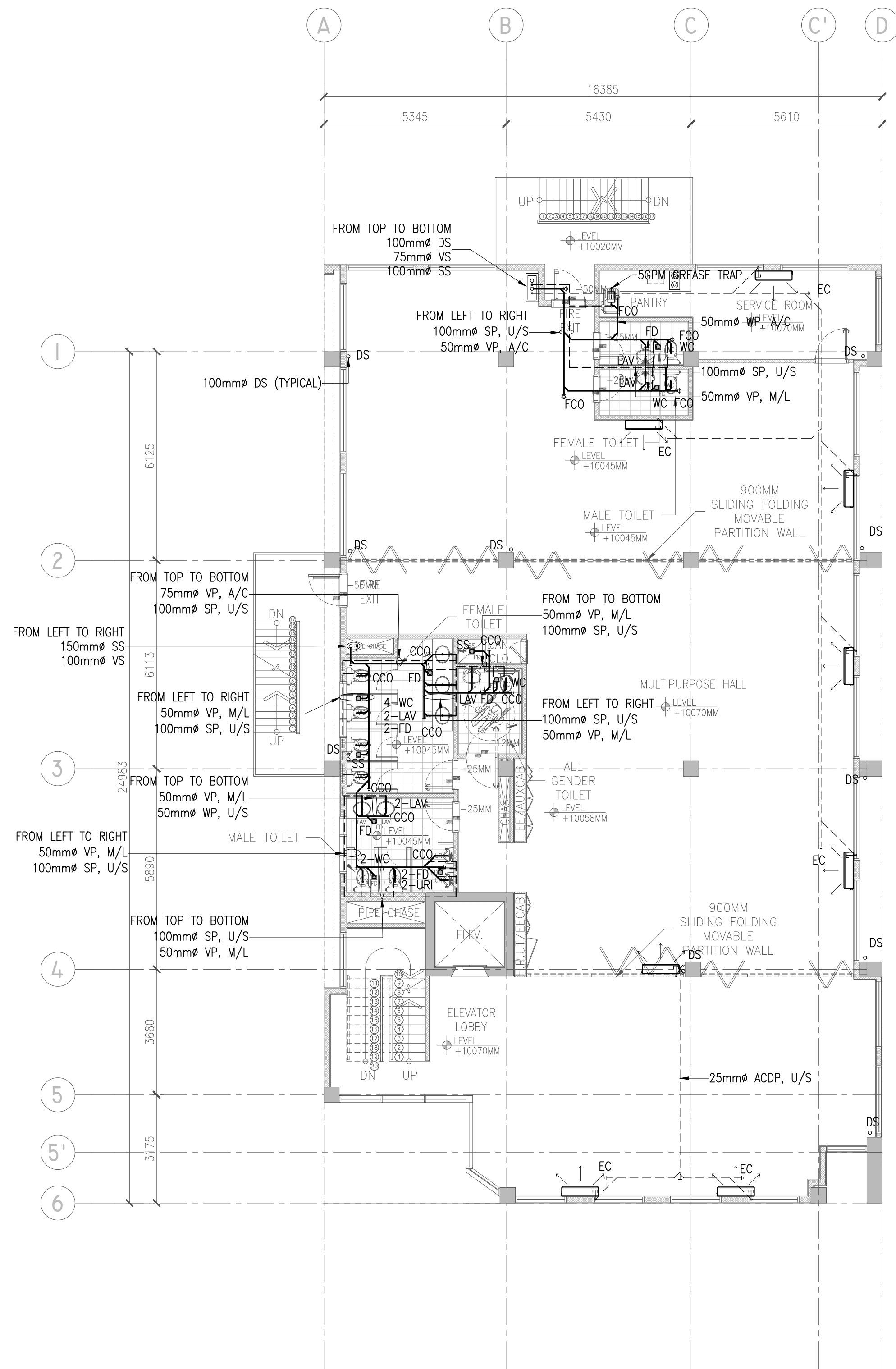
1 GROUND FLOOR WASTEWATER LAYOUT
P-002 SCALE 1:100M



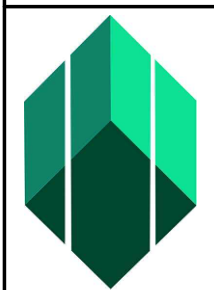
2 SECOND FLOOR WASTEWATER LAYOUT
P-002 SCALE 1:100M



1 THIRD FLOOR WASTEWATER LAYOUT
P-003 SCALE 1:100M



2 FOURTH FLOOR WASTEWATER LAYOUT
P-003 SCALE 1:100M



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ALDEN C. ONG M.Eng., ASEP SEC-HTC		TIN NO.: 168-950-786	
		PTR NO.: 10077889	PABLO P. TAMAYO JR.
		DATE: JANUARY 05, 2024	SANITARY ENGINEER
		PLACE: MAKATI CITY	

PROJECT TITLE/LOCATION
PROPOSED RETROFITTING AND RENOVATION OF THE SEC DAVAO EXTENSION OFFICE
UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY

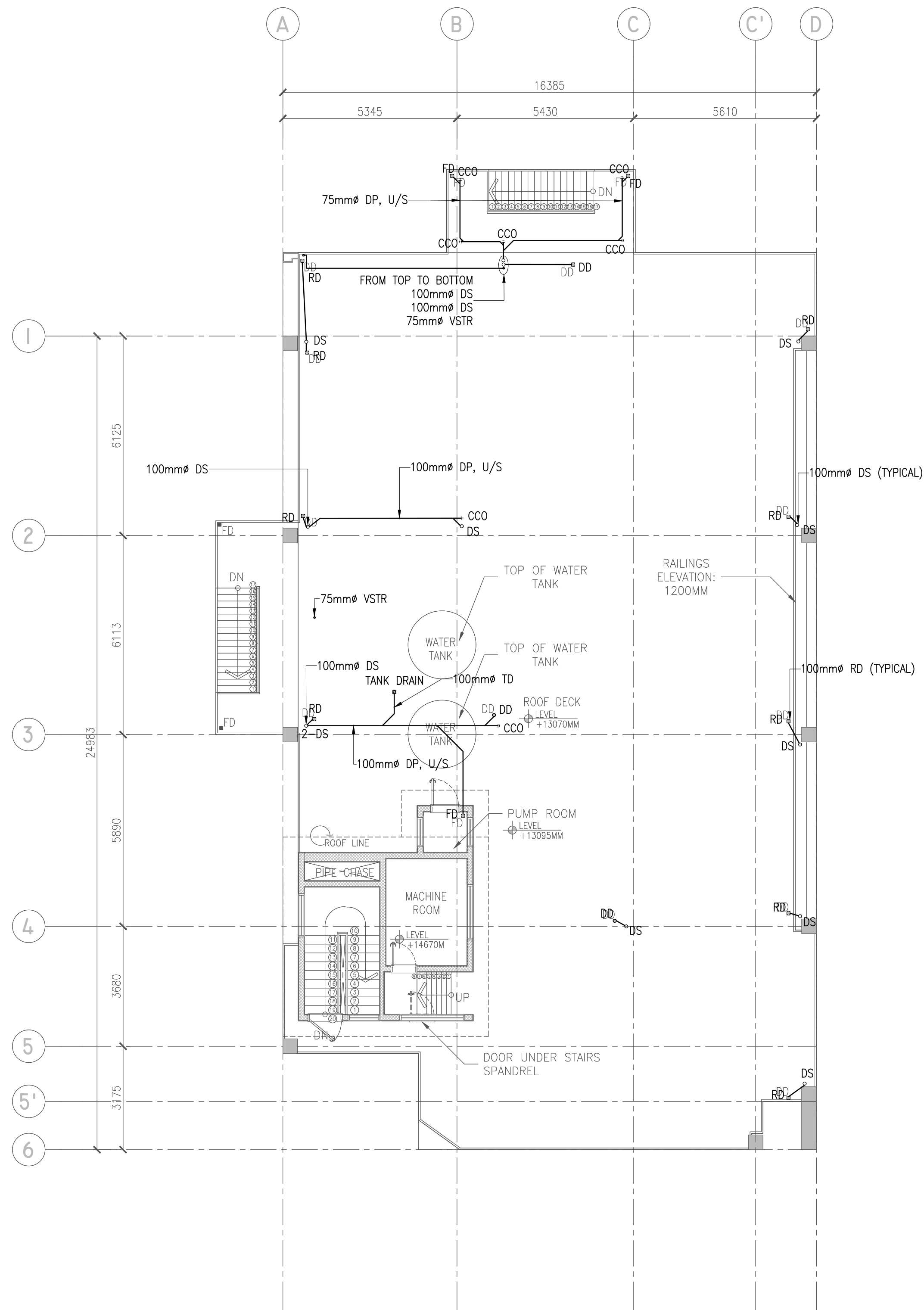
RECOMMENDING APPROVAL
VHINCENT G. CAÑARES
SEC DIRECTOR, MSD

APPROVED BY
JAVEY PAUL D. FRANCISCO
COMMISSIONER

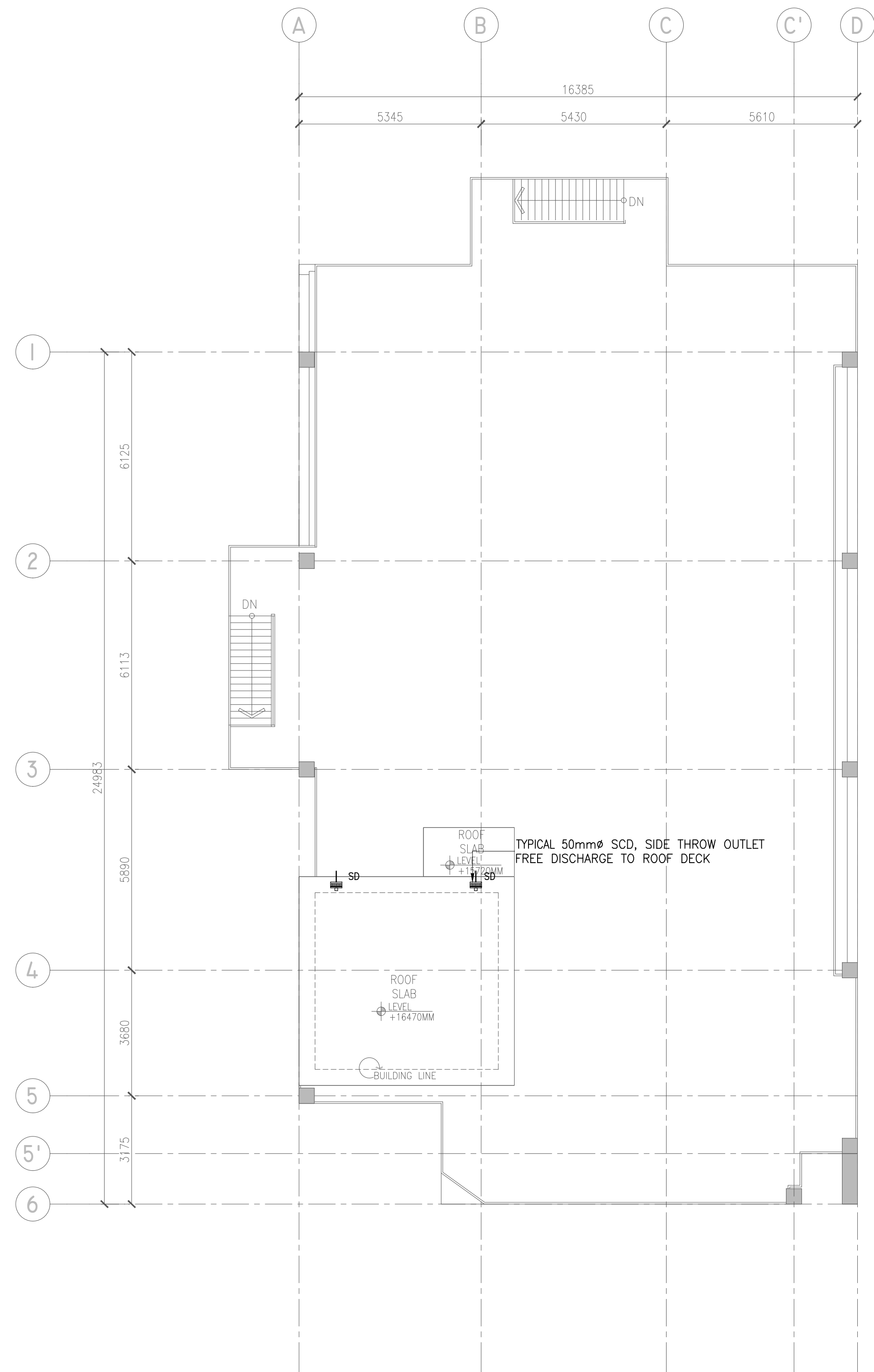
SHEET CONTENTS
THIRD AND FOURTH FLOOR WASTEWATER LAYOUT

R.A. 9266 SEC. 33
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CCR	JUL 2024					20X30	P-003
DESIGNED	DATE					SCALE	PROJECT NO.
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APPROVED	DATE						
PPT	JUL 2024						

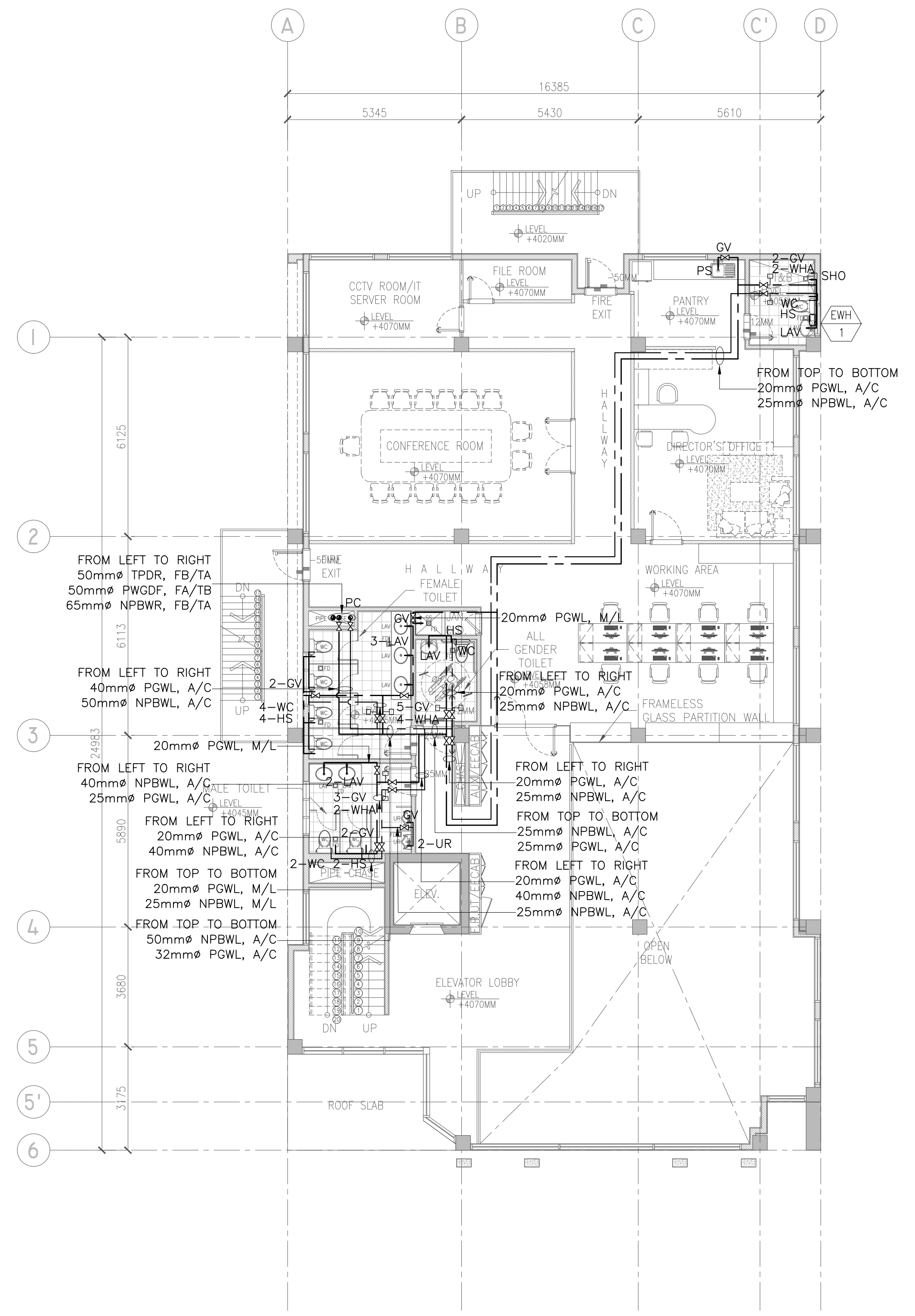
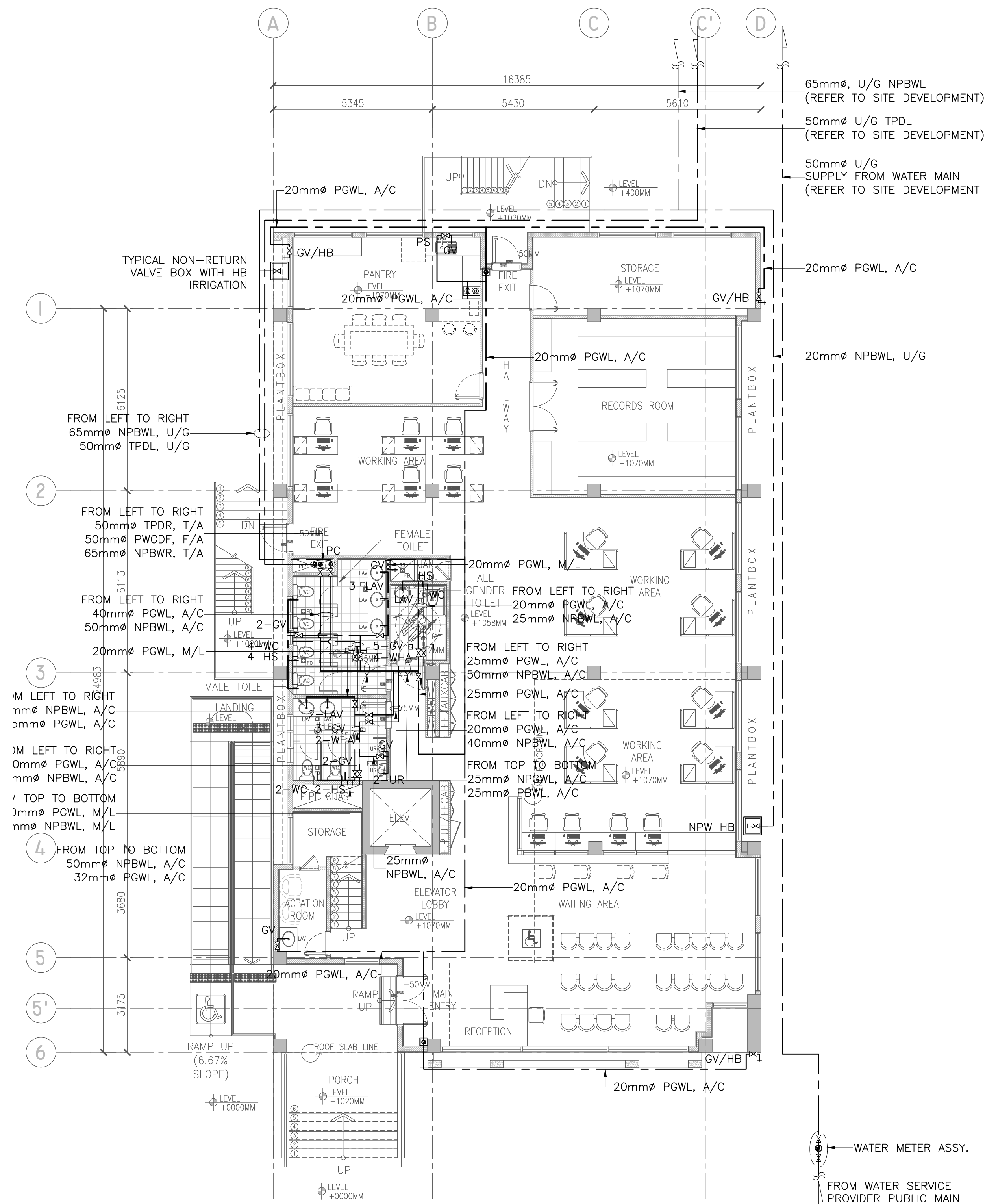


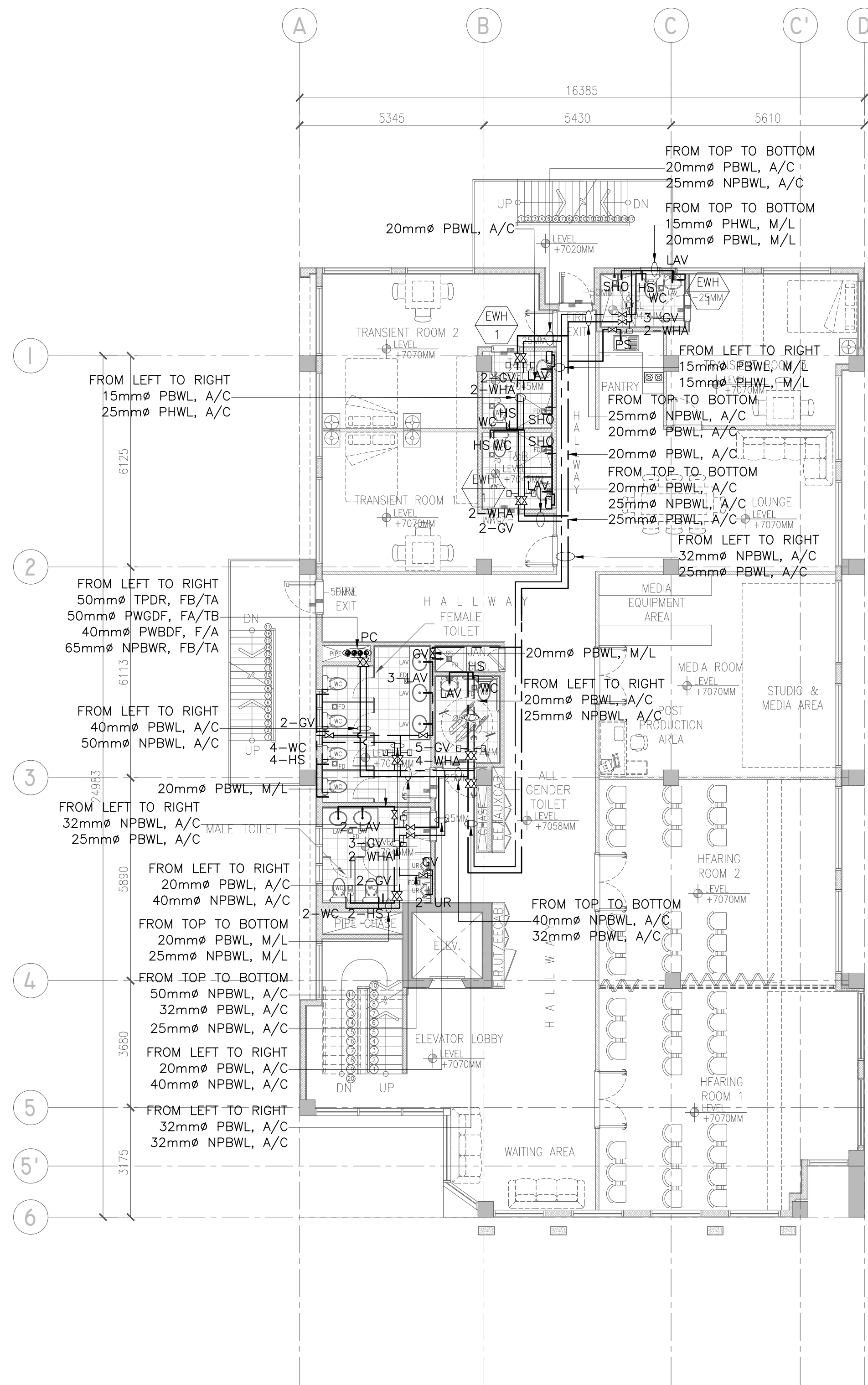
1 ROOF DECK WASTEWATER LAYOUT
P-004 SCALE 1:100M



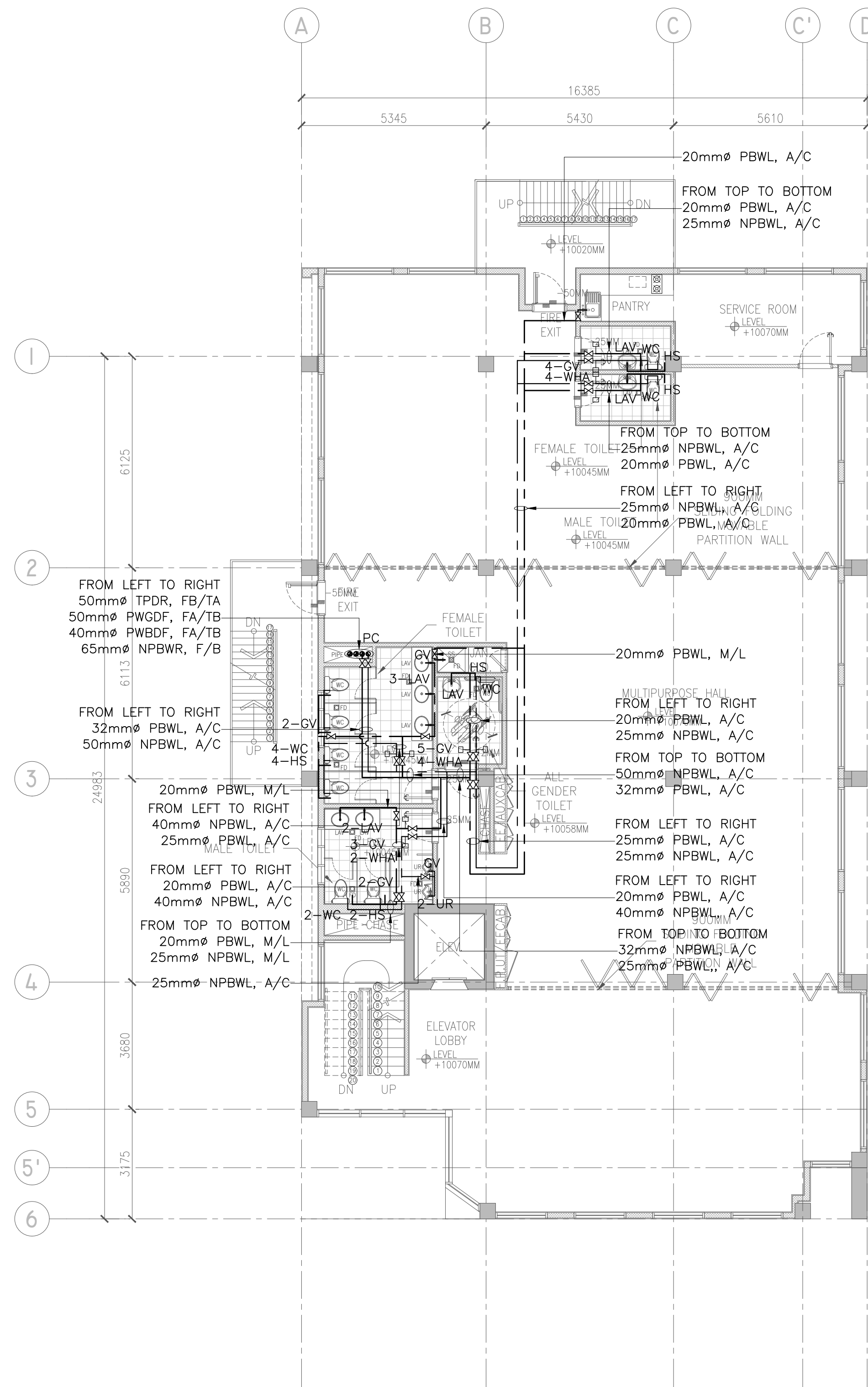
2 ROOF LEVEL WASTEWATER LAYOUT
P-004 SCALE 1:100M

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	SEC-HTC		UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY		SEC DIRECTOR, MSD		COMMISSIONER				DATE JUL 2024										SCALE		PROJECT NO.	
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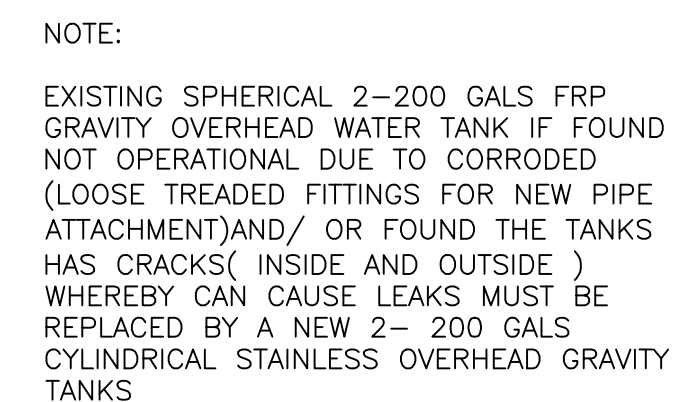


1 THIRD FLOOR WATER DISTRIBUTION LAYOUT
P-007 SCALE 1:100M

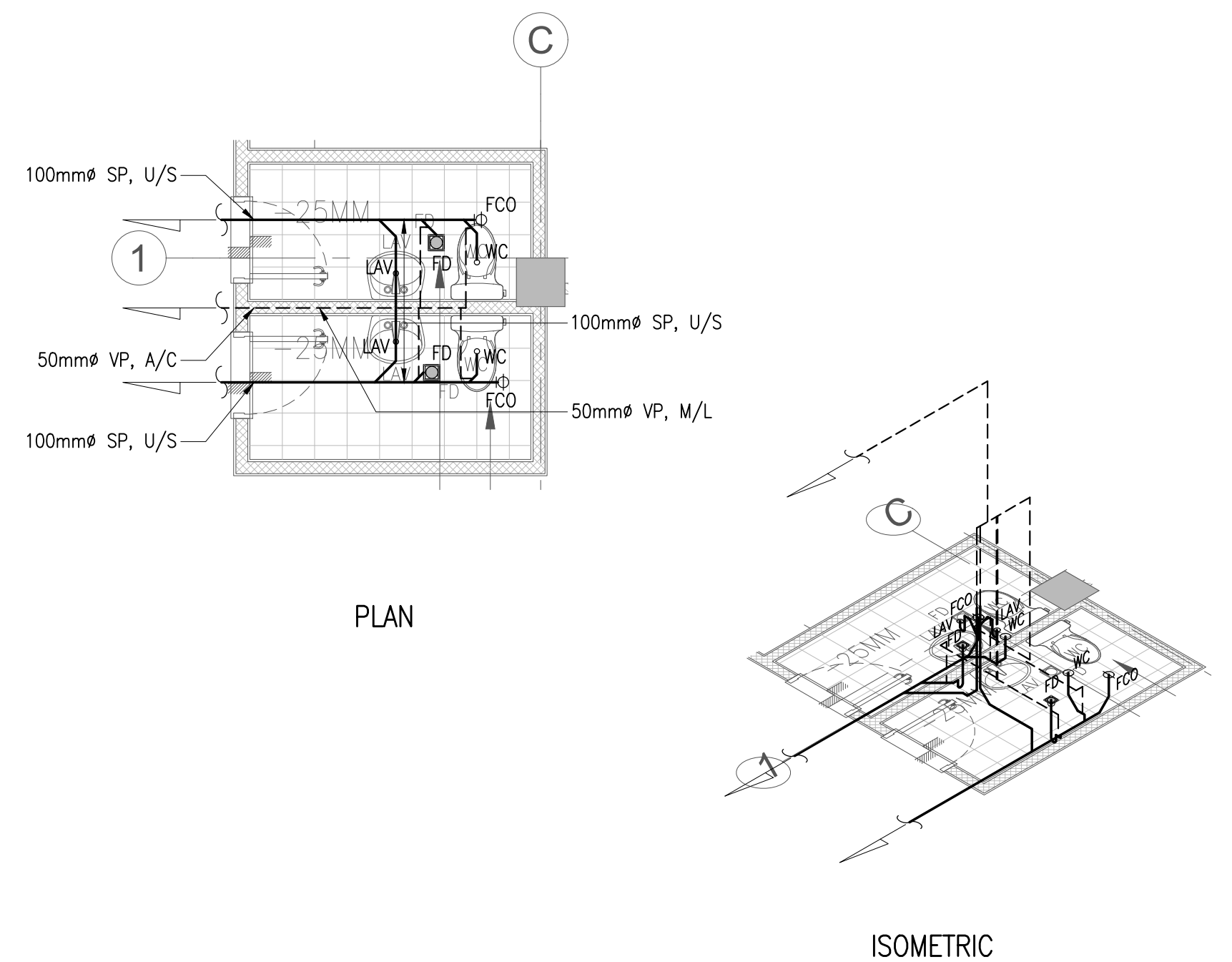
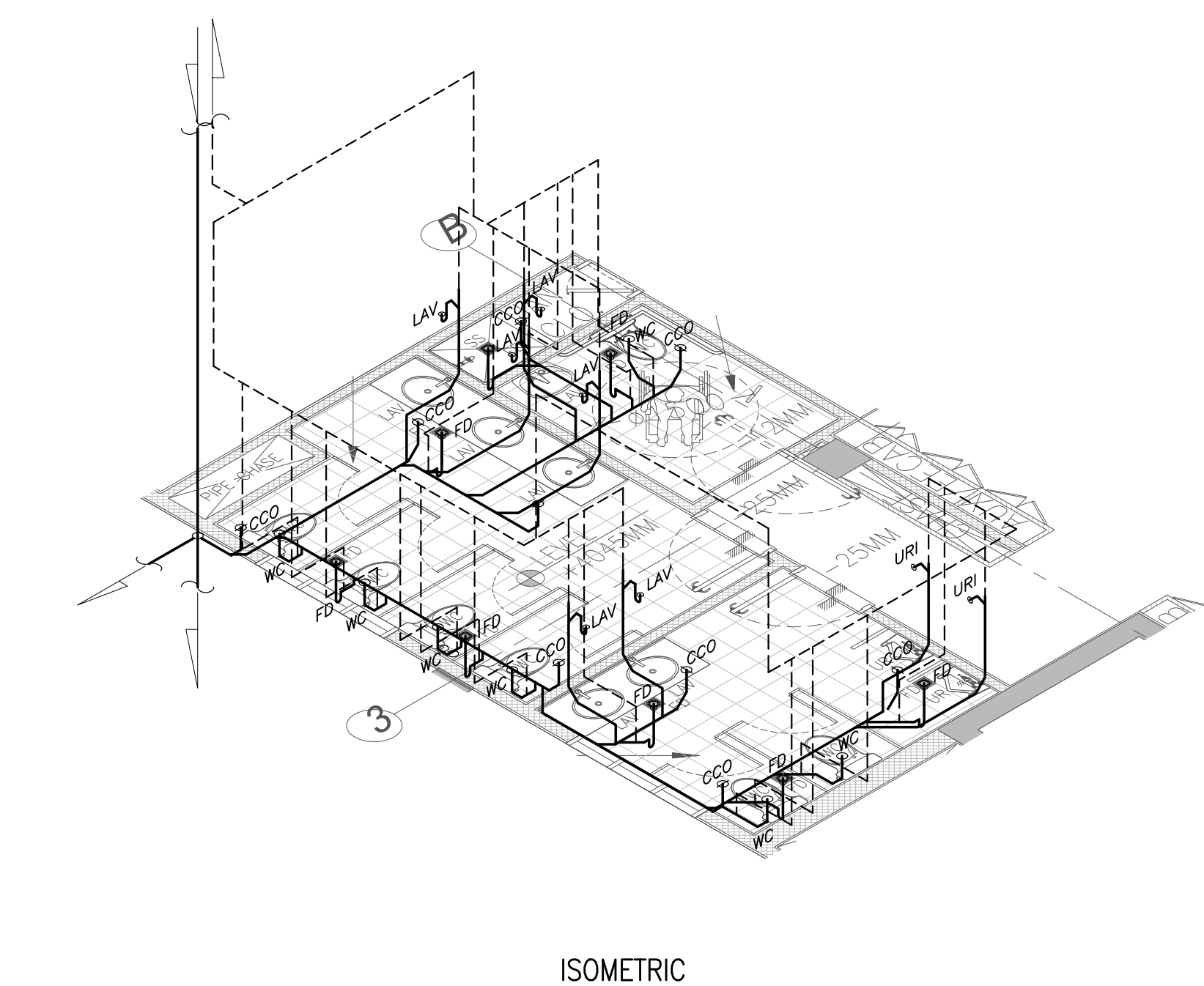
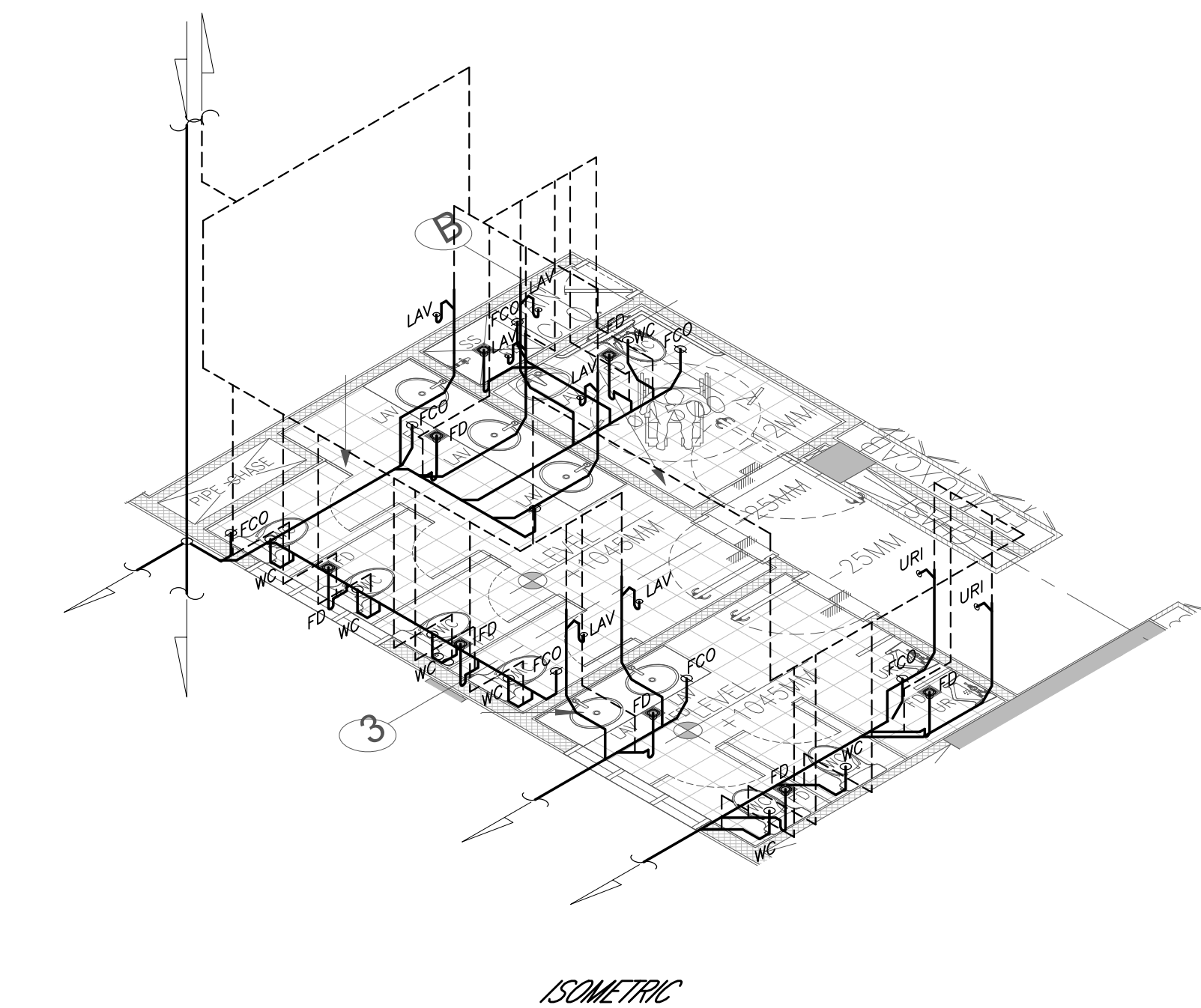
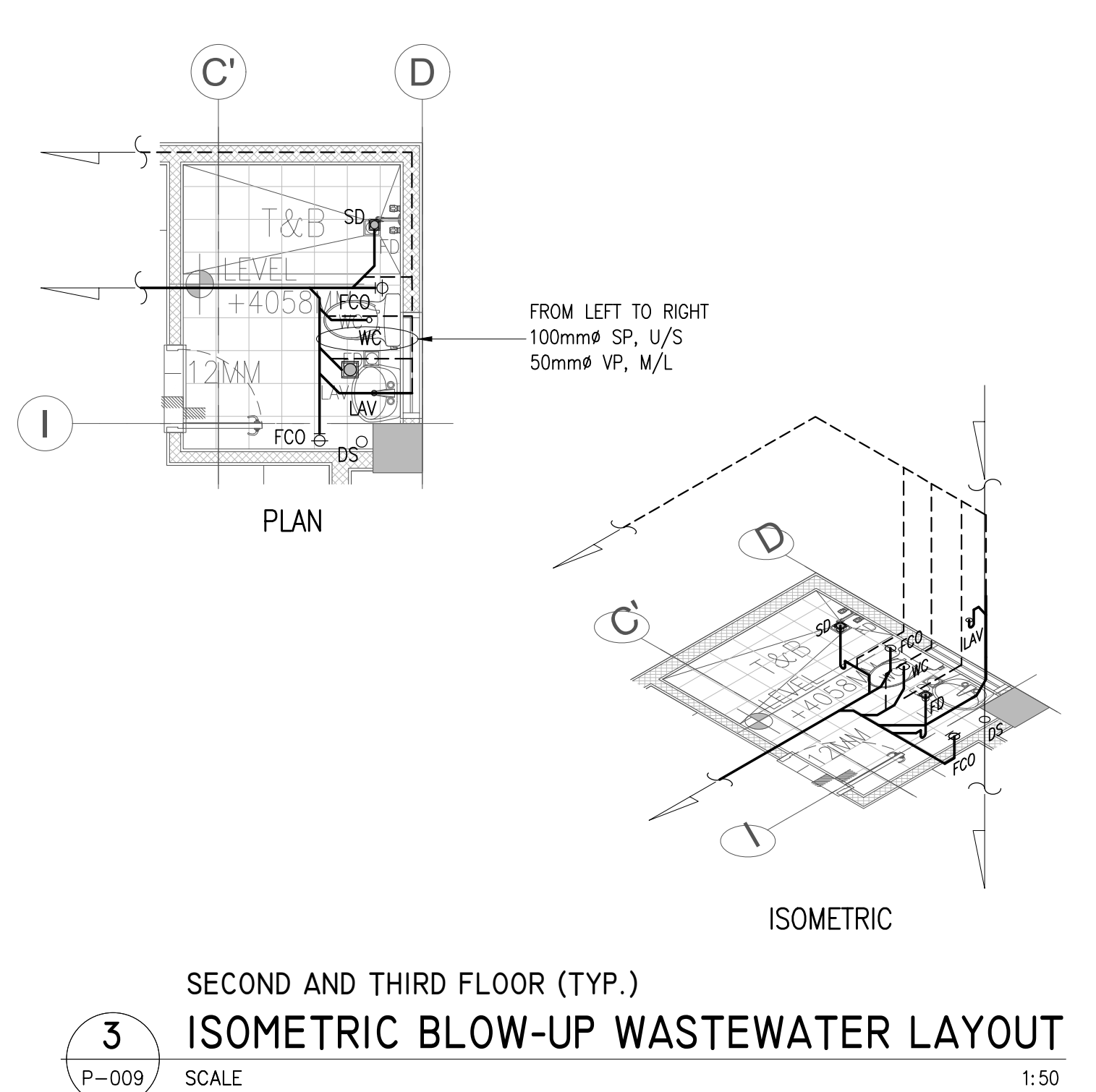
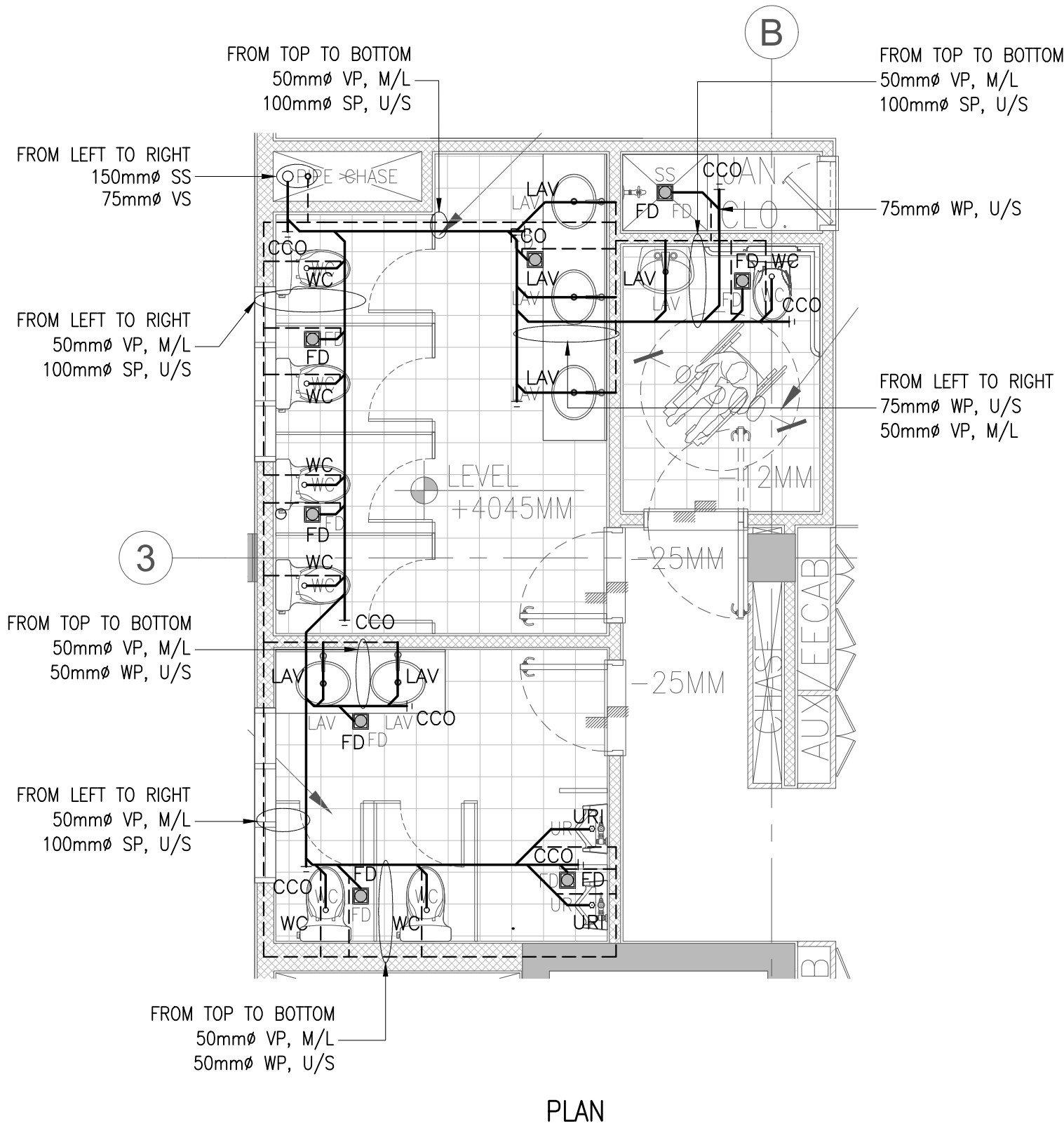
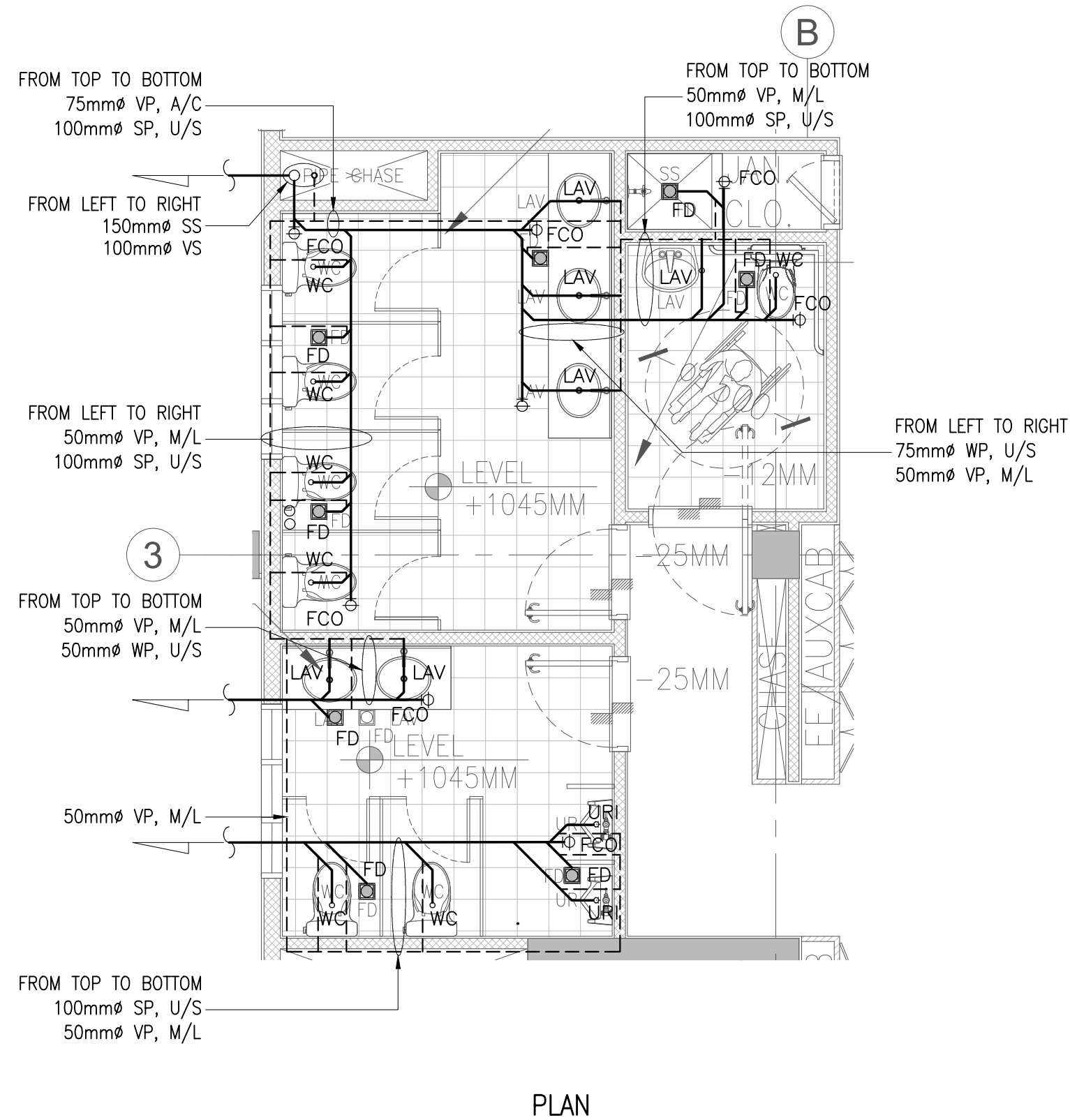


2 FOURTH FLOOR WATER DISTRIBUTION LAYOUT
P-007 SCALE 1:100M

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	SEC-HTC		UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY		SEC DIRECTOR, MSD		COMMISSIONER				DESIGNED										SCALE		PROJECT NO.	
											JOT/BDA										AS SHOWN		DE-G-24-006	
											APPROVED													



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PLACE : MAKATI CITY	PPT	JUL 2024															

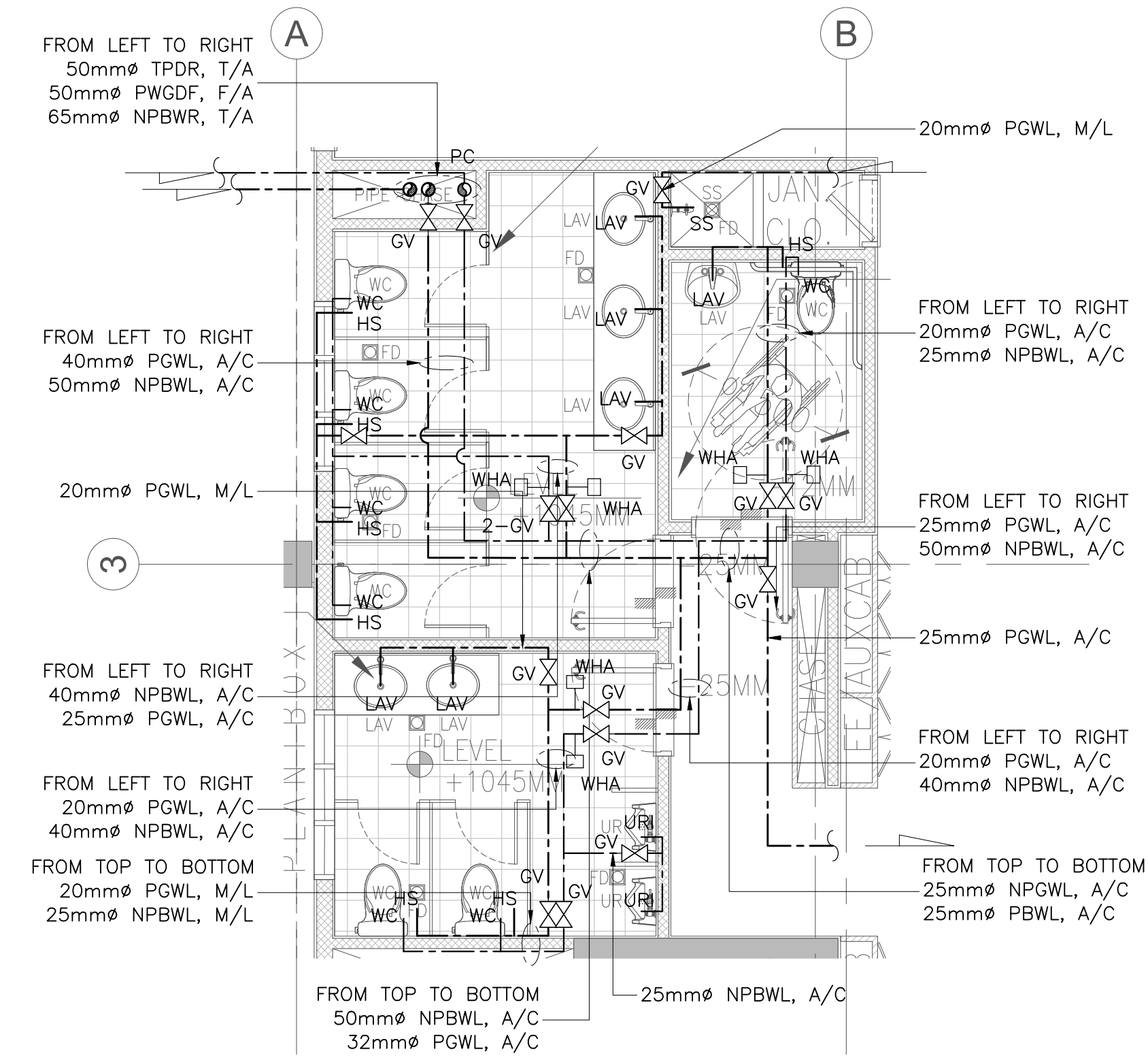


GROUND FLOOR
ISOMETRIC BLOW-UP WASTEWATER LAYOUT
P-009 SCALE 1:50

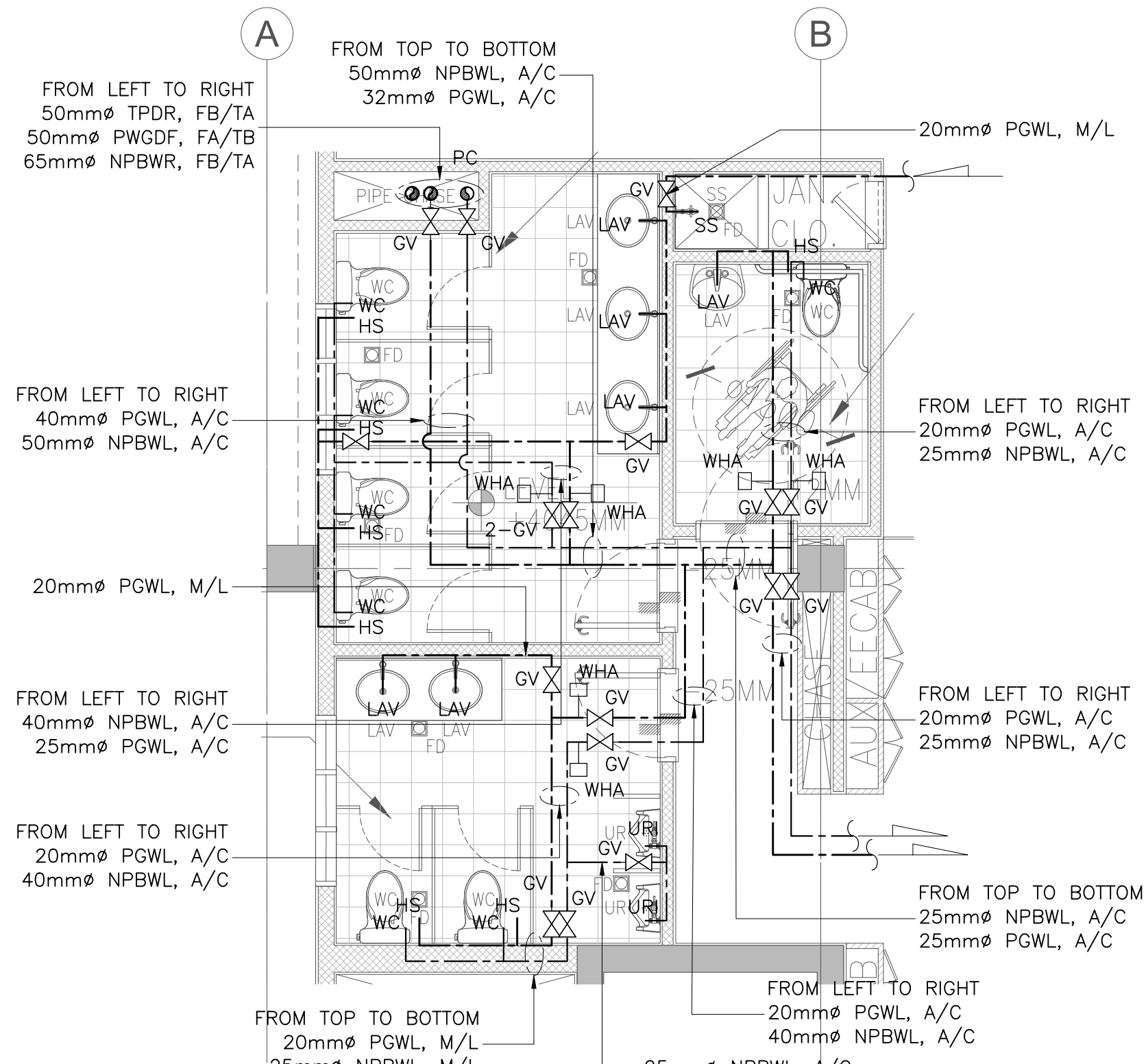
SECOND AND FOURTH FLOOR (TYP.)
ISOMETRIC BLOW-UP WASTEWATER LAYOUT
P-009 SCALE 1:50

FOURTH FLOOR
ISOMETRIC BLOW-UP WASTEWATER LAYOUT
P-009 SCALE 1:50

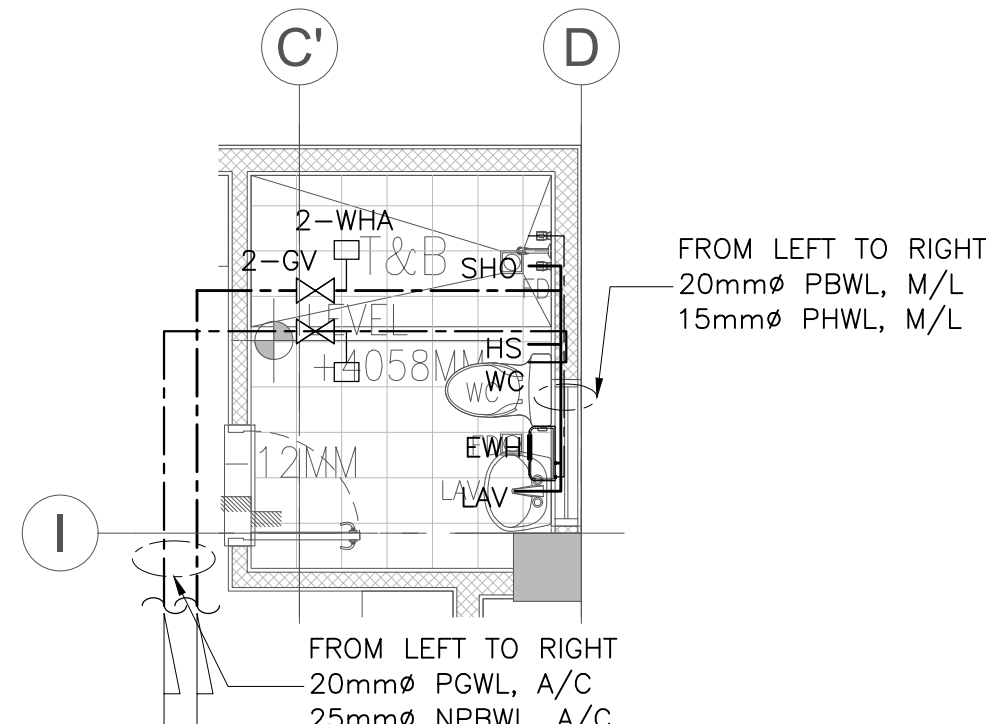
	CHECKED AND SUBMITTED BY		PROJECT TITLE/LOCATION		RECOMMENDING APPROVAL		APPROVED BY		SHEET CONTENTS		DRAWINGS AND SPECIFICATIONS AND CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS FOR SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF ARCHITECT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPEITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS.		CADD	DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
	ALDEN C. ONG M.Eng., ASEP		PROPOSED RETROFITTING AND RENOVATION OF THE SEC DAVAO EXTENSION OFFICE		VHINCENT G. CAÑARES		JAVEY PAUL D. FRANCISCO		TOILET BLOW-UP DETAILS AND ISOMETRIC OF WASTEWATER LAYOUT		R.A. 9266 SEC. 33		CCR	JUL 2024					20X30	P-009
	SEC-HTC		UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY		SEC DIRECTOR, MSD		COMMISSIONER						DESIGNED	DATE					SCALE	PROJECT NO.
	PLACE : MAKATI CITY												JOT/BDA	JUL 2024					AS SHOWN	DE-G-24-006



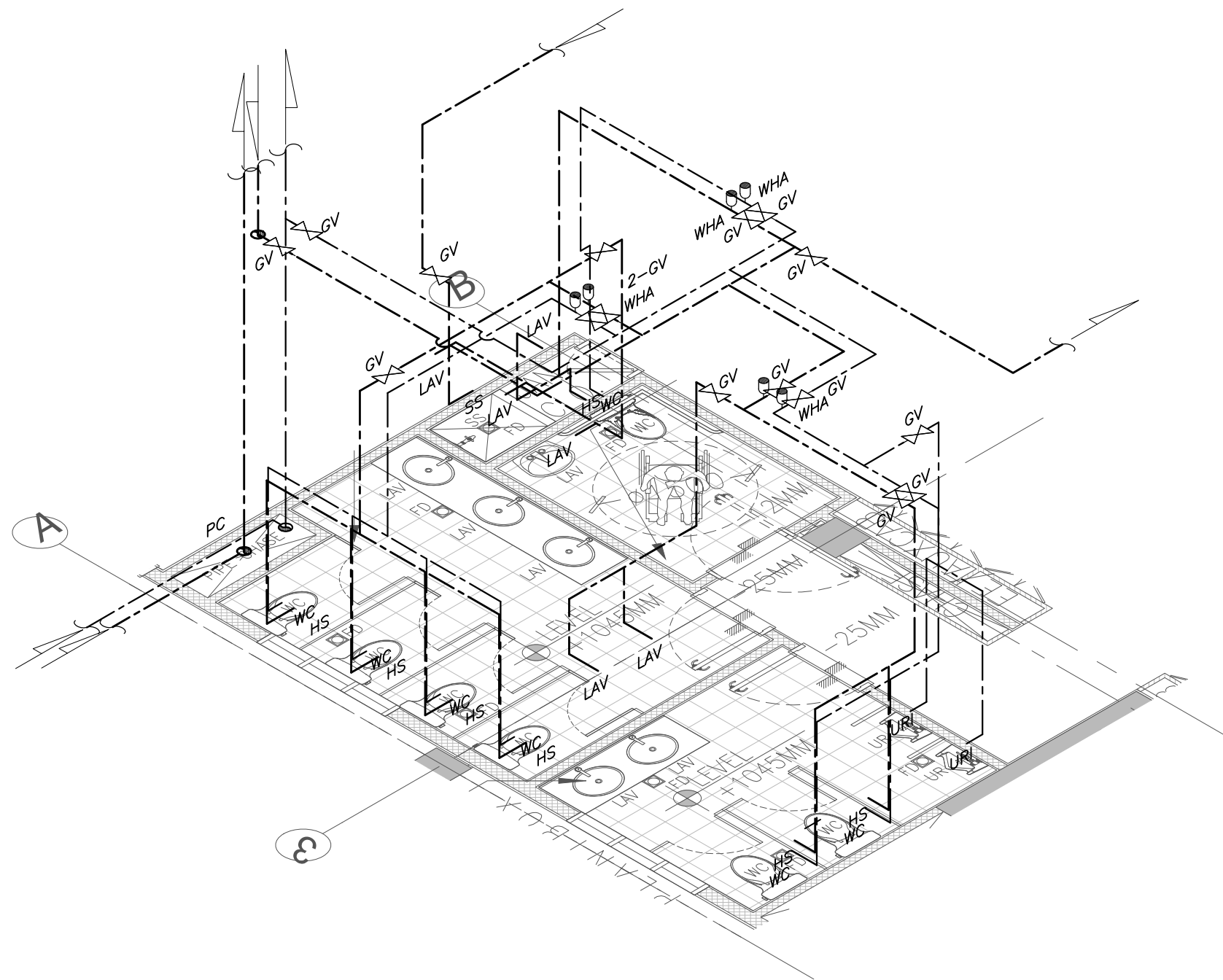
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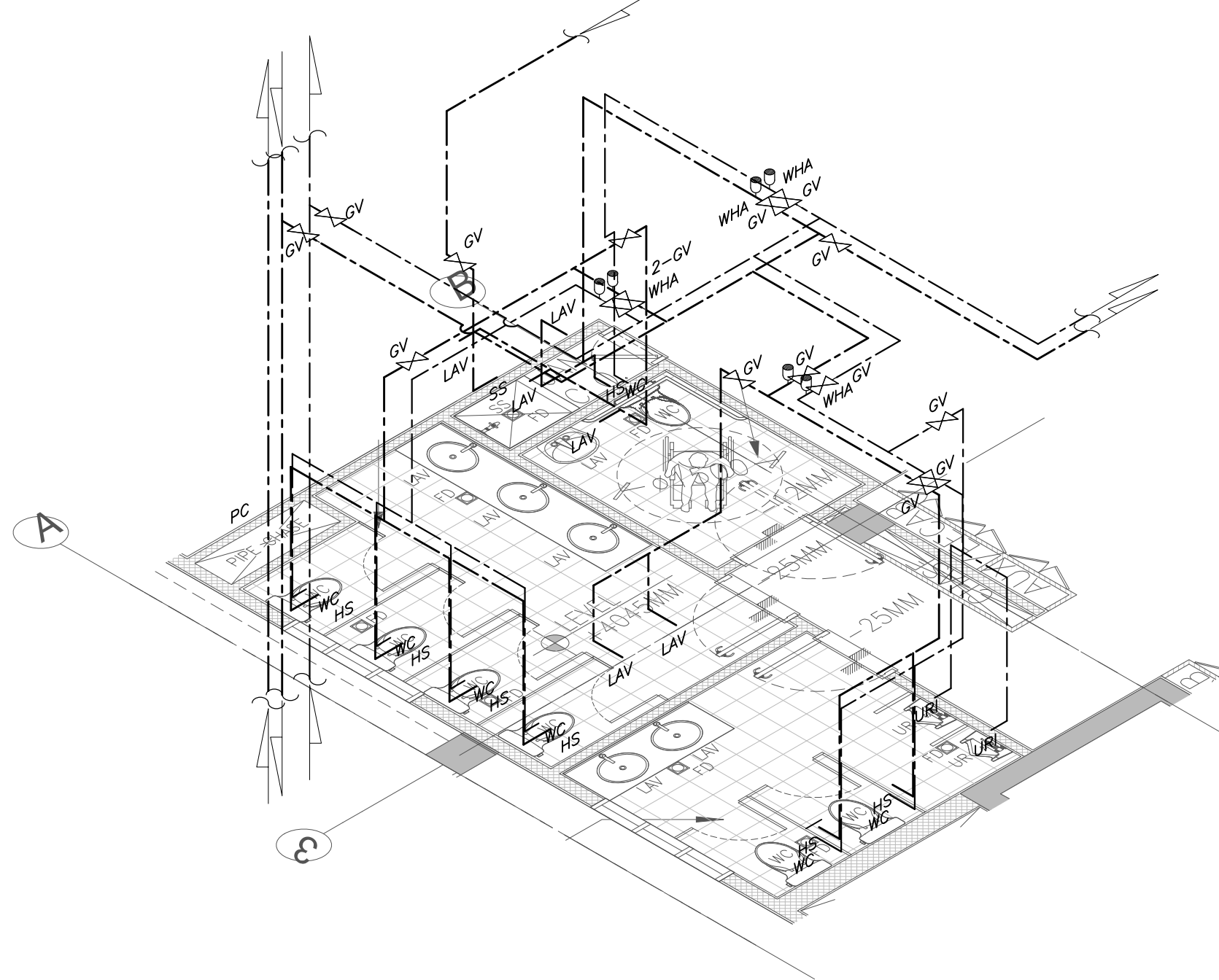
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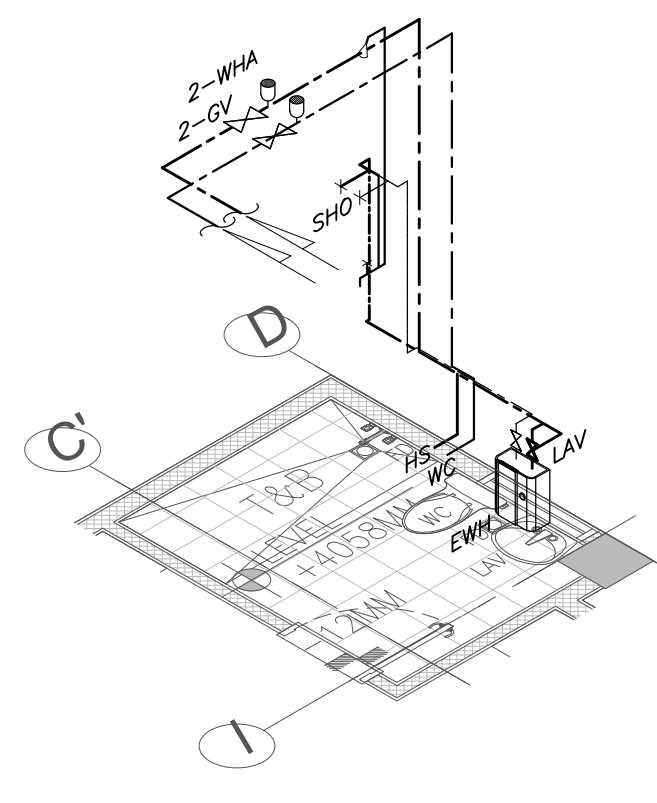
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ISOMETRIC



ISOMETRIC



ISOMETRIC

GROUND FLOOR

ISOMETRIC BLOW-UP WATER DISTRIBUTION LAYOUT

1
P-010

SCALE

1:50

SECOND FLOOR

ISOMETRIC BLOW-UP WATER DISTRIBUTION LAYOUT

2
P-010

SCALE

1:50

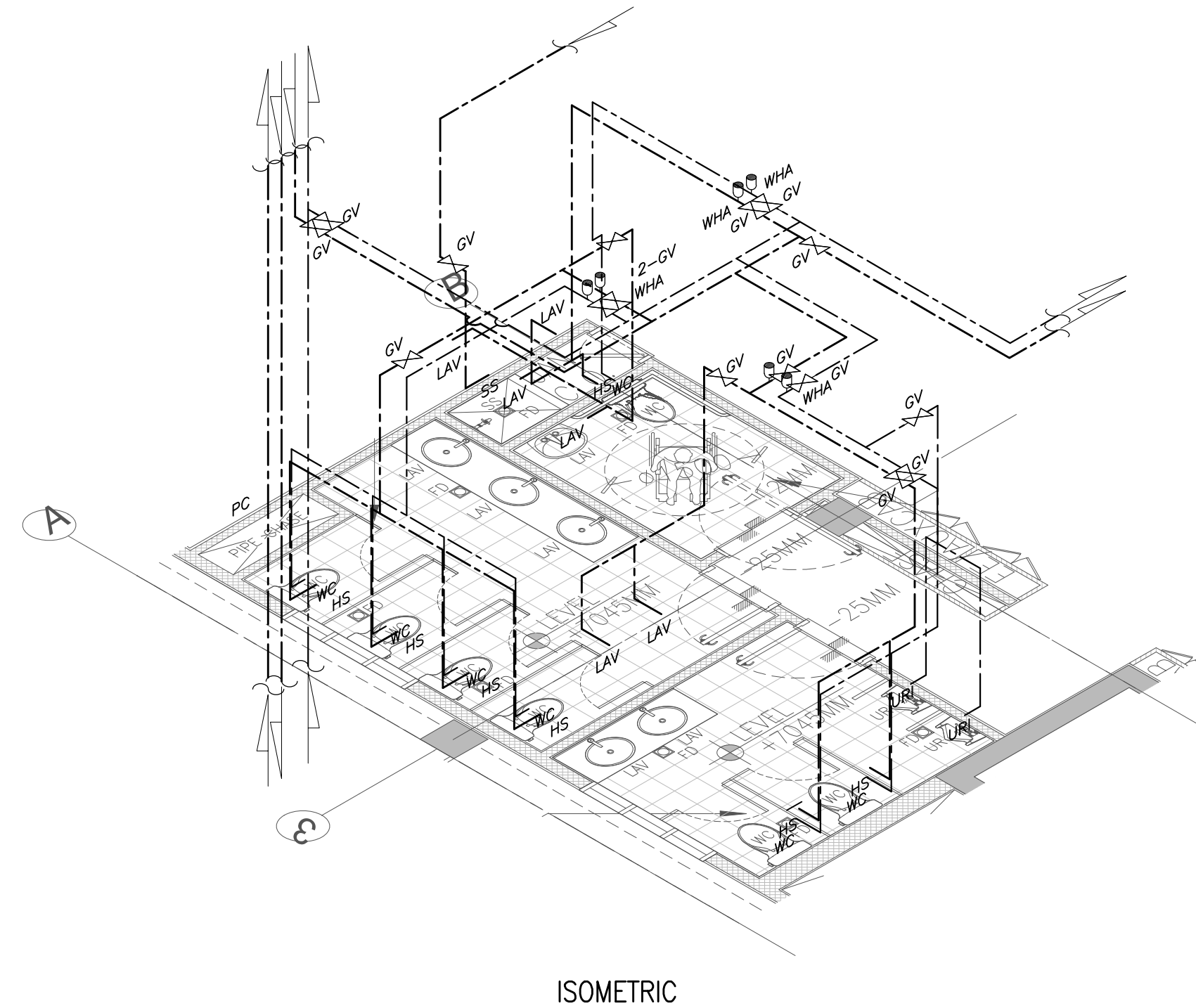
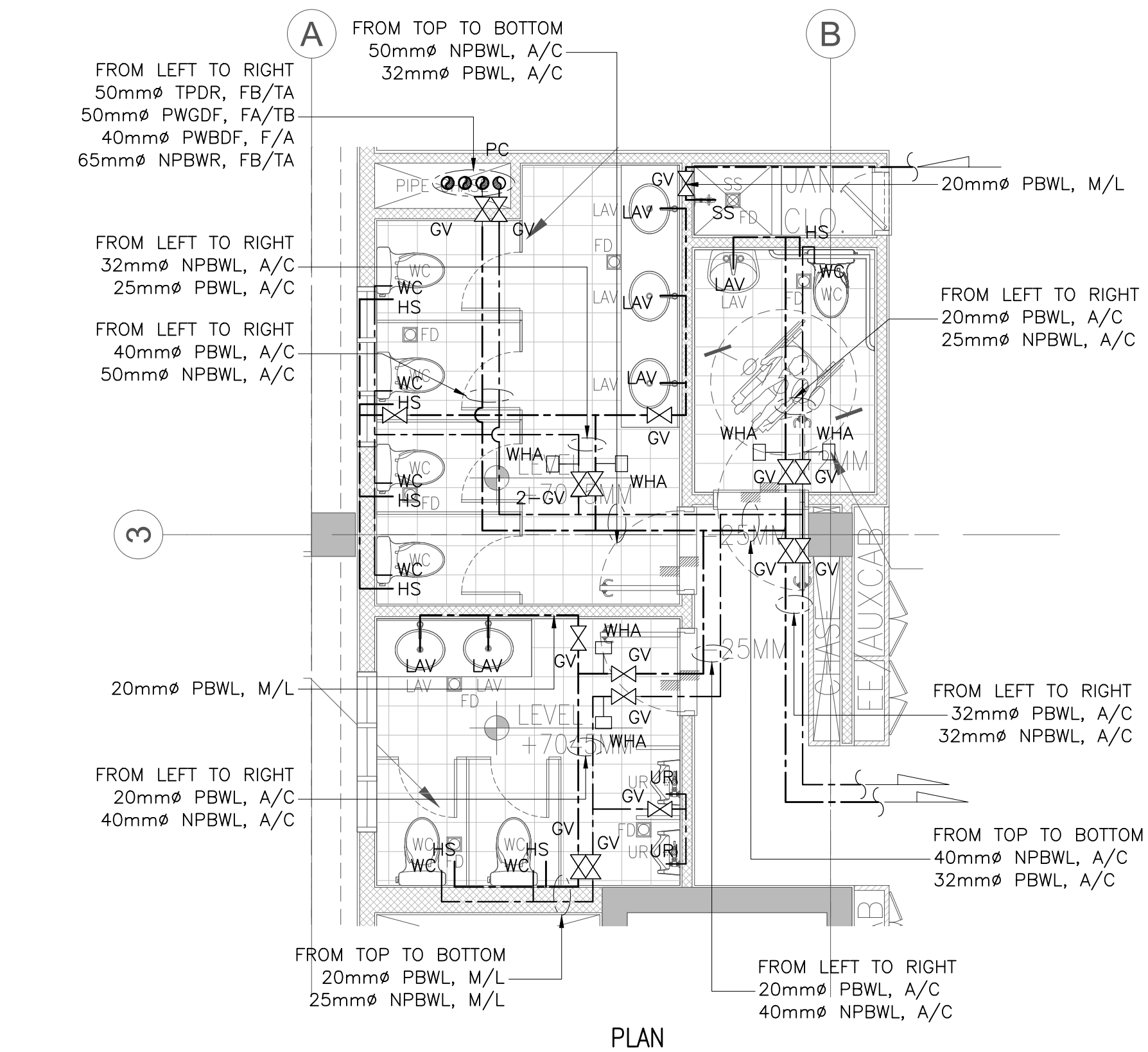
SECOND AND THIRD FLOOR (TYP.)

ISOMETRIC BLOW-UP WATER DISTRIBUTION LAYOUT

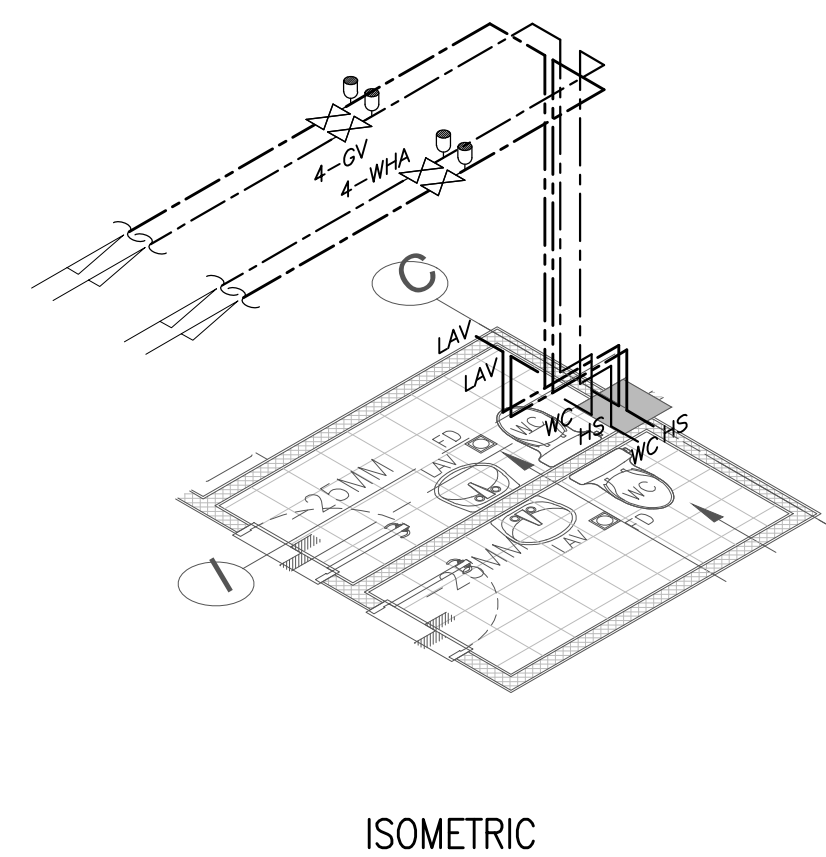
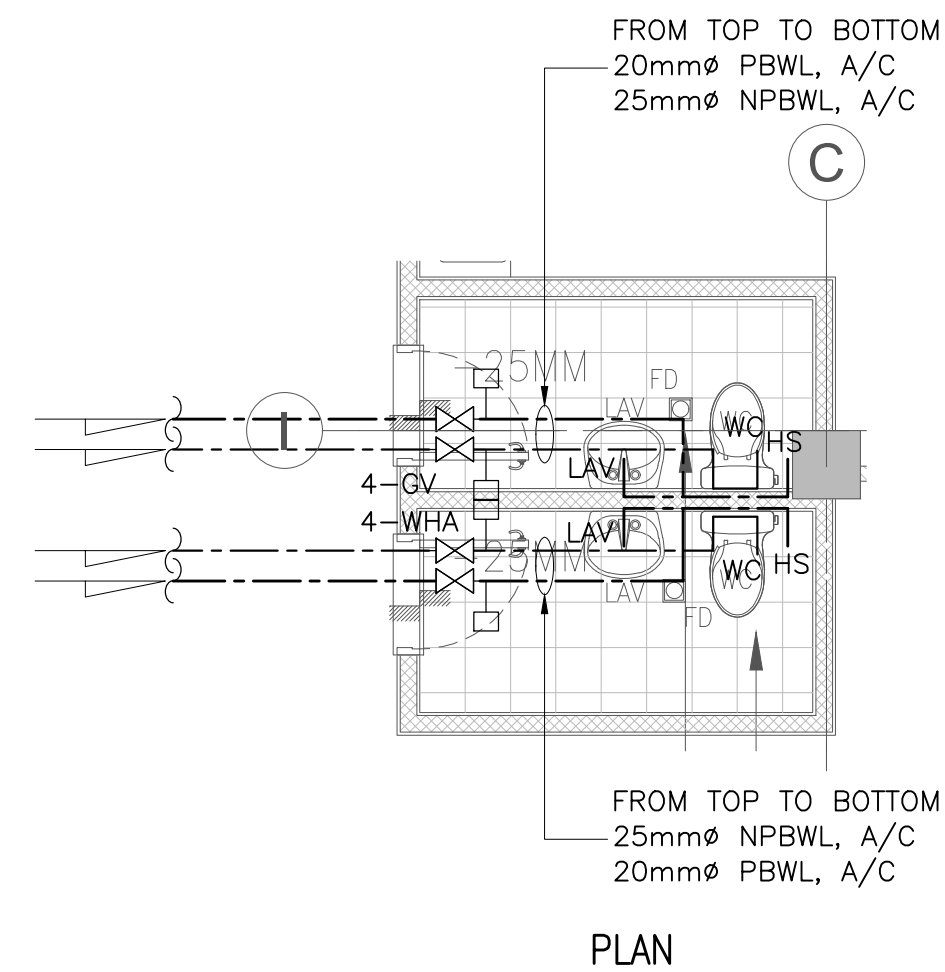
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P-010

SCALE

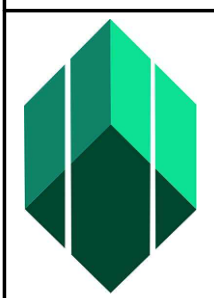
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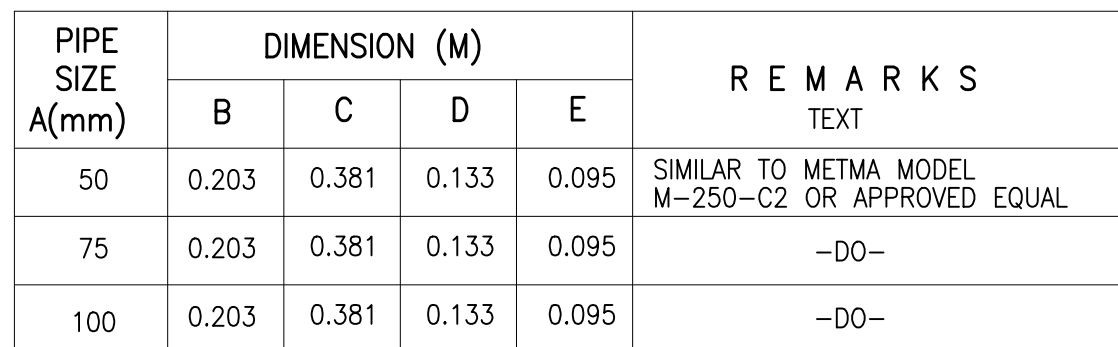


THIRD AND FOURTH FLOOR (TYP.)
ISOMETRIC BLOW-UP WATER DISTRIBUTION LAYOUT
SCALE 1:50



FOURTH FLOOR
ISOMETRIC BLOW-UP WATER DISTRIBUTION LAYOUT
SCALE 1:50

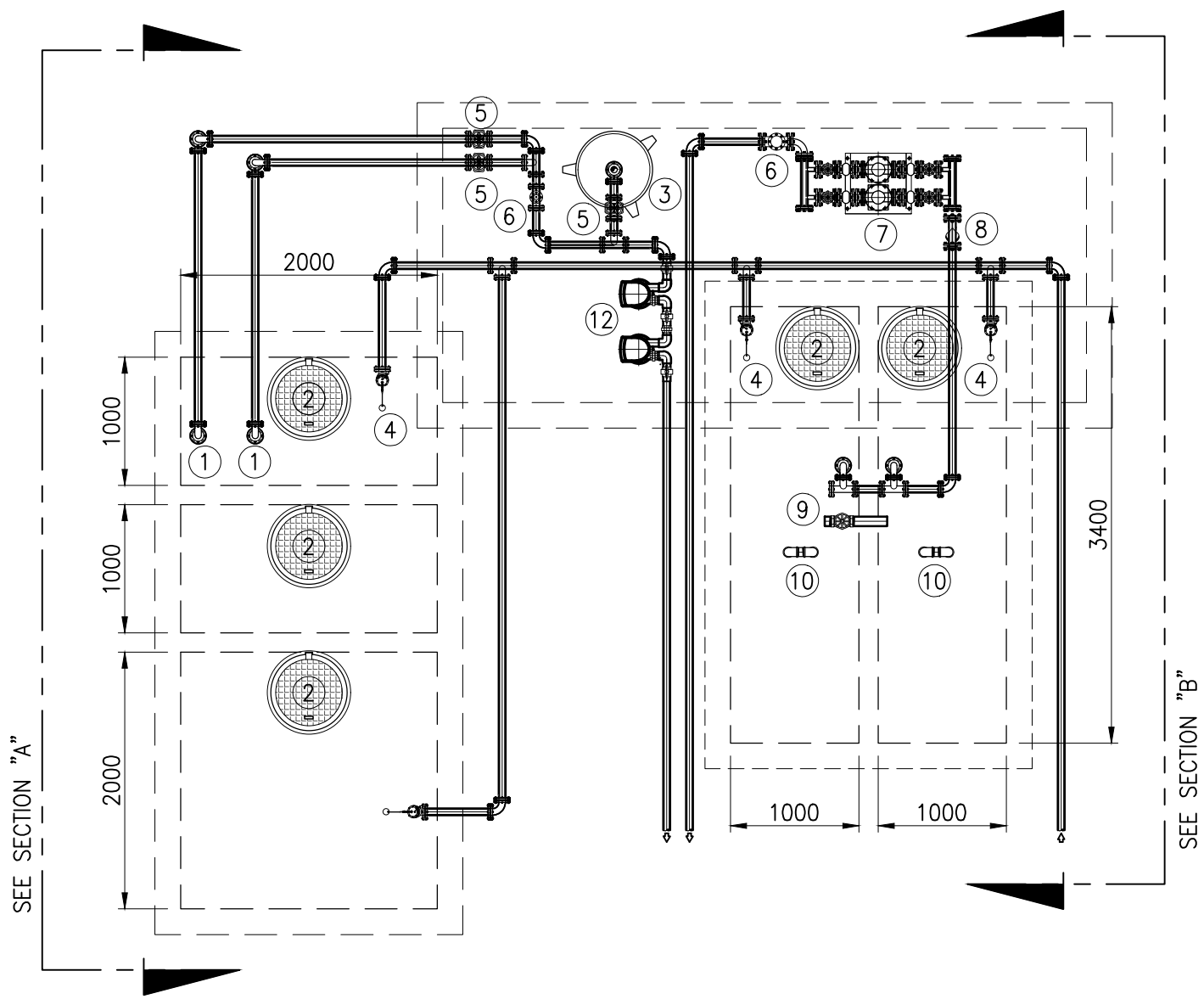
 Securities and Exchange Commission PHILIPPINES	CHECKED AND SUBMITTED BY		PROJECT TITLE/LOCATION		RECOMMENDING APPROVAL		APPROVED BY		SHEET CONTENTS		R.A. 9266 SEC. 33 DRAWINGS AND SPECIFICATIONS AND CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS FOR SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF ARCHITECT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPETITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR AUTHOR OF SAID DOCUMENTS.										CADD		DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
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	SEC-HTC		UNIVERSITY AVENUE, JUNA SUBDIVISION MATINA, DAVAO CITY		SEC DIRECTOR, MSD		COMMISSIONER														DESIGNED	DATE						SCALE	PROJECT NO.
																					JOT/BDA	JUL 2024						AS SHOWN	DE-G-24-006
																					APPROVED	DATE							



6 ROOF DRAIN
P-012 SCALE NTS



LEGEND & SYMBOLS:	
①	SUBMERSIBLE PUMP
②	MANHOLE
③	BLADDER TANK
④	FLOAT VALVE
⑤	GATE VALVE
⑥	CHECK VALVE
⑦	DUPLEX BOOSTER PUMP
⑧	WYE STRAINER
⑨	EQUALIZING VALVE
⑩	AIR VENT
⑪	FOOT VALVE
⑫	DUPLEX TYPE MULTI-MEDIA FILTER



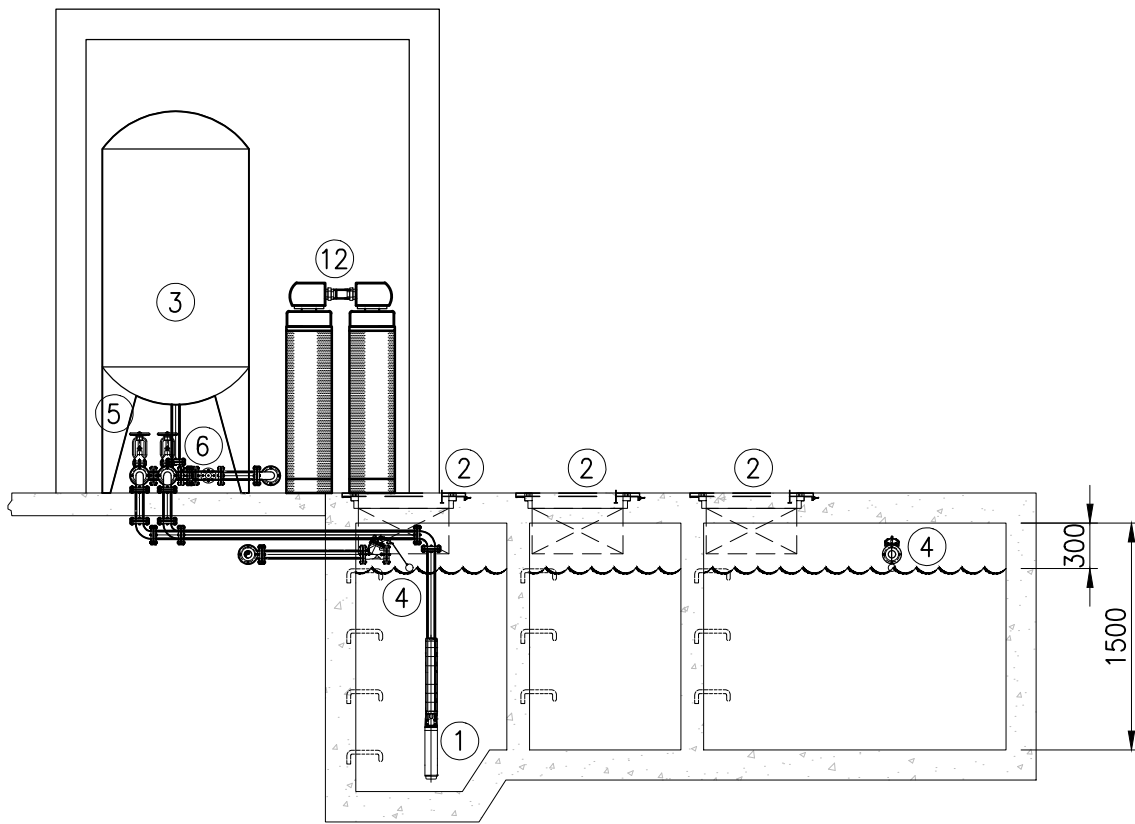
I

RAINWATER COLLECTOR AND DOMESTIC CISTERN TANK DETAIL

P-013

SCALE

NTS



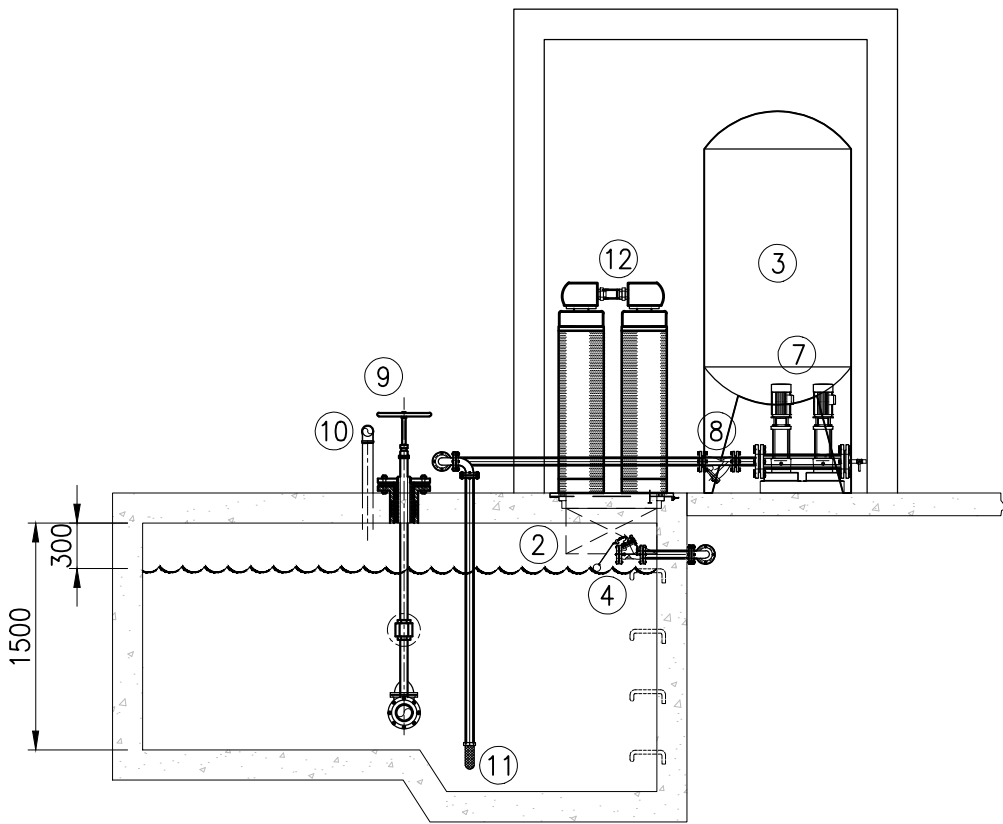
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SECTION "A"

P-013

SCALE

NTS



IB

SECTION "B"

P-013

SCALE

NTS