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PUMP SCHEDULE														
MARK	DATA DESIGNATION	QTY.	SERVICE	TYPE	LOCATION	DRIVE	PUMP RATING		MOTOR RATING					REMARKS
							CAPACIT Y	TDH (ft)	HP	KW	VOLTS	PH	HZ	
BP/1	BOOSTER PUMP -1	1	DUPLEX TYPE BOOSTER PUMP	VERTICAL IN-LINE	PUMP ROOM AT GROUND FLOOR	ELECTRIC MOTOR, CLOSED COUPLED	100	157	7.5	5.6	400	3	60	VERTICAL MULTISTAGE CENTRIFUGAL BOOSTER PUMP. COMPLETE WITH PUMP MOTOR, CONTROL PANEL, DRIVERS, VFD, STANDARD ACCESSORIES & PUMP PAD. SHALL SERVE BUILDING WATER SUPPLY. SHALL BE HOOKED TO THE EMERGENCY GENERATOR. RUNS ALTERNATING 1 DUTY AND 1
BP/2	BOOSTER PUMP -2	1					100	157	7.5	5.6	400	3	60	
ESPP/1	ELEVATOR SUMP PIT PUMP	1	PIT PUMP	SUBMERSIBLE	ELEVATOR PIT	ELECTRIC MOTOR, CLOSED COUPLED	20	36.4	0.5	0.3	230	1	60	SUBMERSIBLE DRAINAGE PUMP. COMPLETE WITH PUMP MOTOR, CONTROL PANEL, DRIVERS & STANDARD ACCESSORIES. SHALL BE HOOKED TO EMERGENCY GENERATOR. PORTABLE FOR EMERGENCY

WATER HEATER SCHEDULE														
MARK	DATA DESIGNATION	QTY.	SERVICE	TYPE	LOCATION	INPUT DATA			FLOW RATE (L/MIN)	MOTOR POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
						INCOMING TEMPERATURE (°C)	OUTPUT TEMPERATURE (°C)	TEMPERATURE DIFFERENTIAL (ΔT)(°C)			VOLTS	PH	HZ	
EWH/1	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	T&B - 1	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/2	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	FEMALE EMPLOYEE'S TOILET - 2	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/3	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	MALE EMPLOYEE'S TOILET - 2	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/4	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	T&B - 3	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/5	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	T&B - 2	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/6	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	T&B - 5	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.
EWH/7	ELECTRIC WATER HEATER	1	HOT WATER SUPPLY SYSTEM	INSTANTANEOUS MULTIPOINT	T&B - 4	29	65	36	2	3.5	230	1	60	SHALL BE WALL MOUNTED WITH COMPLETE STANDARD ACCESSORIES. SHALL BE INSTALLED ACCORDING TO MANUFACTURERS METHOD.

I	EQUIPMENT SCHEDULE	
P-0000	SCALE	NTS

GENERAL NOTES:

- ALL WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATORS:
 - UNIFORM PLUMBING CODE OF THE PHILIPPINES
 - INTERNATIONAL PLUMBING CODE
 - NATIONAL BUILDING CODE OF THE PHILIPPINES
 - THE CODE ON SANITATION OF THE PHILIPPINES
 - NFPA101 – LIFE SAFETY
 - DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
 - PSSE – PHILIPPINE SOCIETY OF SANITARY ENGINEERS
 - ASPE – AMERICAN SOCIETY OF PLUMBING ENGINEERS
 - ASSE – AMERICAN SOCIETY OF SANITARY ENGINEERS
 - LOCAL CODE ORDINANCE OF THE CONCERNED CITY OR MUNICIPALITY
- ALL INSTALLATION THEREIN SHALL BE DONE TO THE BEST PRACTICE OF THE PROFESSION SUPERVISED BY A LICENSED SANITARY ENGINEER DURING CONSTRUCTION.
- COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQ'D FOR PROPER EXECUTION OF OTHER TRADE SHALL BE W/ PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 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 SHALL BE FURNISHED AND INSTALLED, IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- PIPING SHALL BE PROPERLY GRADED OR PITCHED TO ENSURE EASY DRAINAGE. THE MINIMUM SLOPES SHALL BE AS FOLLOWS:
 - SANITARY AND STORM DRAINAGE PIPES: FOR 80mm AND SMALLER – 1:50
FOR 100mm AND LARGER – 1:100
- EXACT LOCATION OF EXISTING UTILITIES (WATERLINES, SANITERY SEWER LINES, SANITARY MANHOLES, STORM SEWER LINES & STORM MANHOLES) SHALL BE VERIFIED BY THE CONTRACTOR AT JOBSITE.
- CONTRACTOR TO CONDUCT WATER SAMPLING ANALYSIS PRIOR TO PREPARATION OF SHOP DRAWINGS OF WATER TREATMENT (IF REQUIRED) FOR APPROVAL BY SANITARY ENGINEER.
- THE PROPOSED UTILITIES SHALL BE MADE TO CONFORM TO THE ACTUAL LOCATION, TAPPING POINT, DEPTH AND INVERT LEVELS OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION AND OPERATION PERMITS AND OTHER PERMITS REQUIRED BY ANY REGULATORY AGENCY.
- EXTERIOR UNDERGROUND SUMP DISCHARGE PIPES SHALL BE CENTRIFUGALLY GALVANIZED IRON PIPE & FITTINGS.
- ALL WORKS SHALL BE DONE WITH UTMOST CARE AND HIGHEST LEVEL OF QUALITY AND SAFETY; WITH NO ADVERSE DISRUPTION TO EXISTING UTILITIES AND / OR OPERATION.
- ANY EXISTING UTILITIES EQUIPMENT, PIPINGS OR PAVED AREAS AFFECTED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AND BE PROPERLY SCHEDULED PRIOR TO ACTUAL WORK AND WITH THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL PIPES PENETRATING THRU WALLS, CEILING, FLOORS SHALL BE ACOUSTICALLY SEALED WITH STC FIRE RATED MATERIALS.
- ALL PIPES, FITTINGS, PUDDLE FLANGES, AND LADDER RUNGS INSTALLED INSIDE THE POTABLE, AND FIRE WATER TANKS SHALL BE STAINLESS STEEL.
- POLYPROPYLENE-RANDOM AND OTHER PLASTIC PIPES AND FITTINGS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS OF SCHEDULE 40 IRON PIPE SIZE, i.e. THE PPR SHALL BE PN 20 & BE TWO SIZES, LARGER AND THE HDPE SHALL BE ONE SIZE LARGER THAN WHAT IS INDICATED IN THE DRAWINGS (SEE SCHEDULE OF EQUIVALENT PIPE DIAMETERS OF POTABLE AND HOT WATER LINES).
- POTABLE WATER LINES SHALL BE POLYPROPYLENE-RANDOM (PPR) PIPES OF DIFFERENT COLORS.
- CONDENSATE DRAIN AND HOT WATER LINES SHALL BE INSULATED WITH FLEXIBLE CLOSED CELL ELASTOMERIC RUBBER WITH THICKNESS AS SPECIFIED BELOW.
- 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.
- ALL PIPE SIZES INDICATED IN DRAWING ARE NOMINAL & IN REFERENCE TO ITS INTERNAL DIAMETER. IT IS NOT TO BE AS COMMERCIAL SIZE. THE PLUMBING CONTRACTOR SHALL BE SUBMIT FOR APPROVAL MATERIALS SAMPLE OF PIPES TO BE INSTALLED PRIOR TO INSTALLATION. ALL PIPE SLEEVE SHALL CONFORM TO STRUCTURAL SLEEVING DETAIL.
- WATER HAMMER ARRESTERS SHALL BE ACCORDING TO MANUFACTURE'S SPECIFICATIONS AS TO LOCATION AND METHOD OF INSTALLATION.
- LOCATION OF ITC AND DRAIN PIPE RIZERS SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR.
- LOCATION OF SEPTIC TANK FOOT PRINT SHALL BE AT LEAST 1000mm FROM BUILDING WALL.
- LOCATION OF SANITARY BUILDING SEWER SHALL BE AT LEAST 600mm FROM BUILDING WALL.

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

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			

LEGEND & SYMBOLS		
DESCRIPTION	ABBREVIATION	LEGEND & SYMBOLS
COLD WATER LINE	CWL	— — — —
SOIL PIPE	SP	=====
KICHEN WASTE PIPE	KWP	=====
DRAINAGE PIPE	DP	-----
VENT PIPE	VP	-----
COLD WATER RISER	CWR	—————○
SOIL STACK	SS	—————○
VENT STACK	VS	-----○
VENT ABOVE CEILING	VAC	-----
VENT STACK THRU ROOF	VSTR	↔↔↔
AIRCONDITION UNIT DRAIN	ACUD	— - - - -
KITCHEN SINK	KS	○
BATH TUB	BT	○
WATER CLOSET	WC	○
WATER HAMMER ARRESTER	WHA	—□
WATER METER	WM	Ⓜ
WATER HEATER	WH	☎
GATE VALVE	GV	⌞⌟
CHECK VALVE	CV	⌞⌟
FLEXIBLE CONNECTION	FC	⌞⌟
FLOOR CLEAN OUT/ CLEANOUT	FD	⌞⌟
AREA DRAIN	AD	■
CATCH BASIN	CB	□
HOSE BIBB	HB	⊥
FLOOR DRAIN	FD	■
DECK DRAIN	DD	■
DOWN SPOUT	DS	○
LAVATORY	LAV	○
SHOWER	SHO.	○
WYE STRAINER	YS	⌞⌟
STUB-OUT	SO	⌞⌟
AIRCON DRAIN PIPE	ACDP	-----
AIRCON DRAIN STACK	ACDS	-----
ELECTRODE WATER LEVEL INDICATOR	EWLI	⌞⌟
EQUIPMENT MARK		⬡
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	
FROM BELOW	F/B	
TO ABOVE	T/A	

CERTIFIED BY

OSMUNDO C. DE VERA

SANITARY ENGINEER

REG. NO.: 1490

TIN NO. : 106-911-960

PTR NO.: 6991162

DATE : JANUARY 04, 2018

PLACE : MANILA

OWNER

METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE

MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY

PROJECT TITLE/LOCATION

3-STOREY OFFICE BUILDING WITH ROOF DECK

MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY

CLIENT

PROJECT PROPONENT

MELCHOR S. CORDOVA
ALTERNATE END-USER FOR RO BUILDING

APPROVED BY:

PATRICK LESTER N. TY
CHIEF REGULATOR, MWSS RO

SHEET CONTENTS

DRAWING INDEX

GENERAL NOTES

PIPE SIZE EQUIVALENT

LEGENDS & SYMBOLS

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.

RDGL

JUL 2018

20X30

P-0000

DESIGNED

DATE

SCALE

PROJECT NO.

JPLO

JUL 2018

AS SHOWN

SO-G-17-036

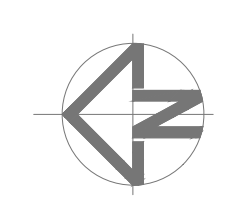
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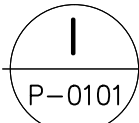
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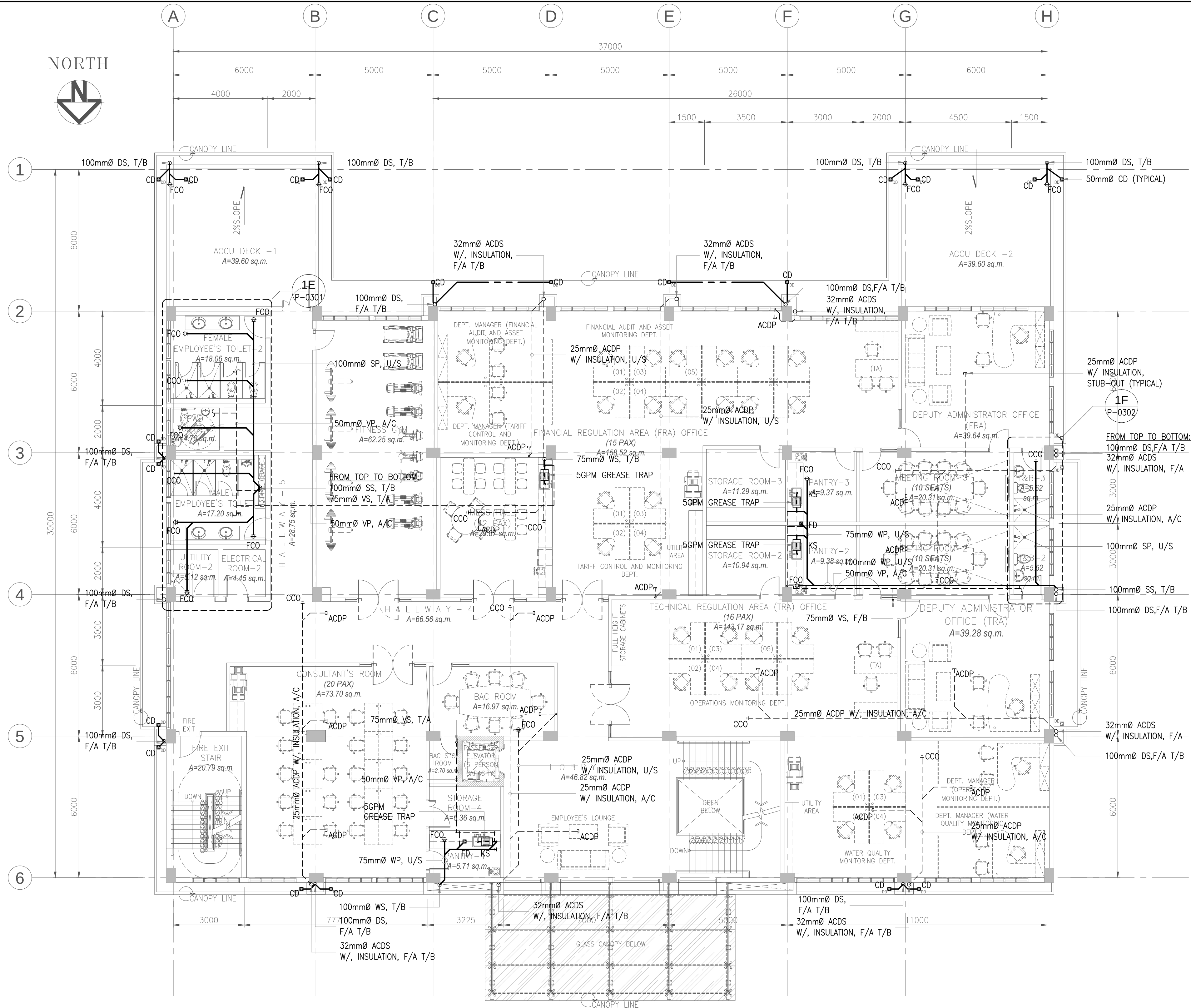






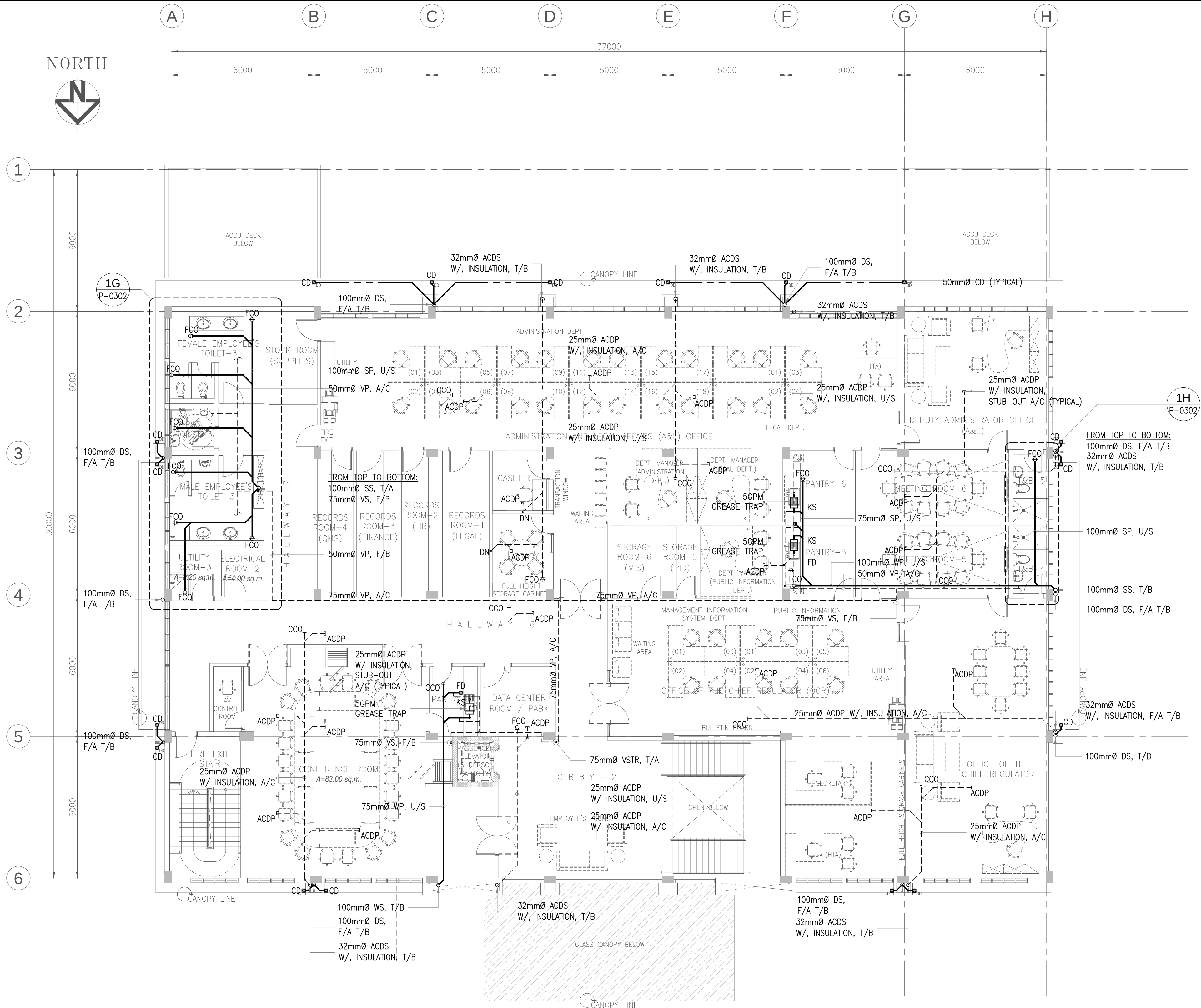
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CERTIFIED BY		OWNER	PROJECT TITLE/LOCATION	CLIENT		SHEET CONTENTS	R.A. 9266 SEC. 33	CADD	DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
OSMUNDO C. DE VERA		METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE	3-STOREY OFFICE BUILDING WITH ROOF DECK	PROJECT PROPONENT	APPROVED BY:	GROUND FLOOR WASTEWATER LAYOUT	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.	RDGL	JUL 2018					20X30	P-0101
SANITARY ENGINEER		DATE : JANUARY 04, 2018		MELCHOR S. CORDOVA	PATRICK LESTER N. TY			DESIGNED	DATE					SCALE	PROJECT NO.
PLACE : MANILA		MWSS COMPOUND, KATIPUNAN AVENUE, MATANGAND BALARA, QUEZON CITY	MWSS COMPOUND, KATIPUNAN AVENUE, MATANGAND BALARA, QUEZON CITY	ALTERNATE END-USER FOR RO BUILDING	CHIEF REGULATOR, MWSS RO			JPLO	JUL 2018					AS SHOWN	SO-G-17-036
								APPROVED	DATE						
								PTT	JUL 2018						



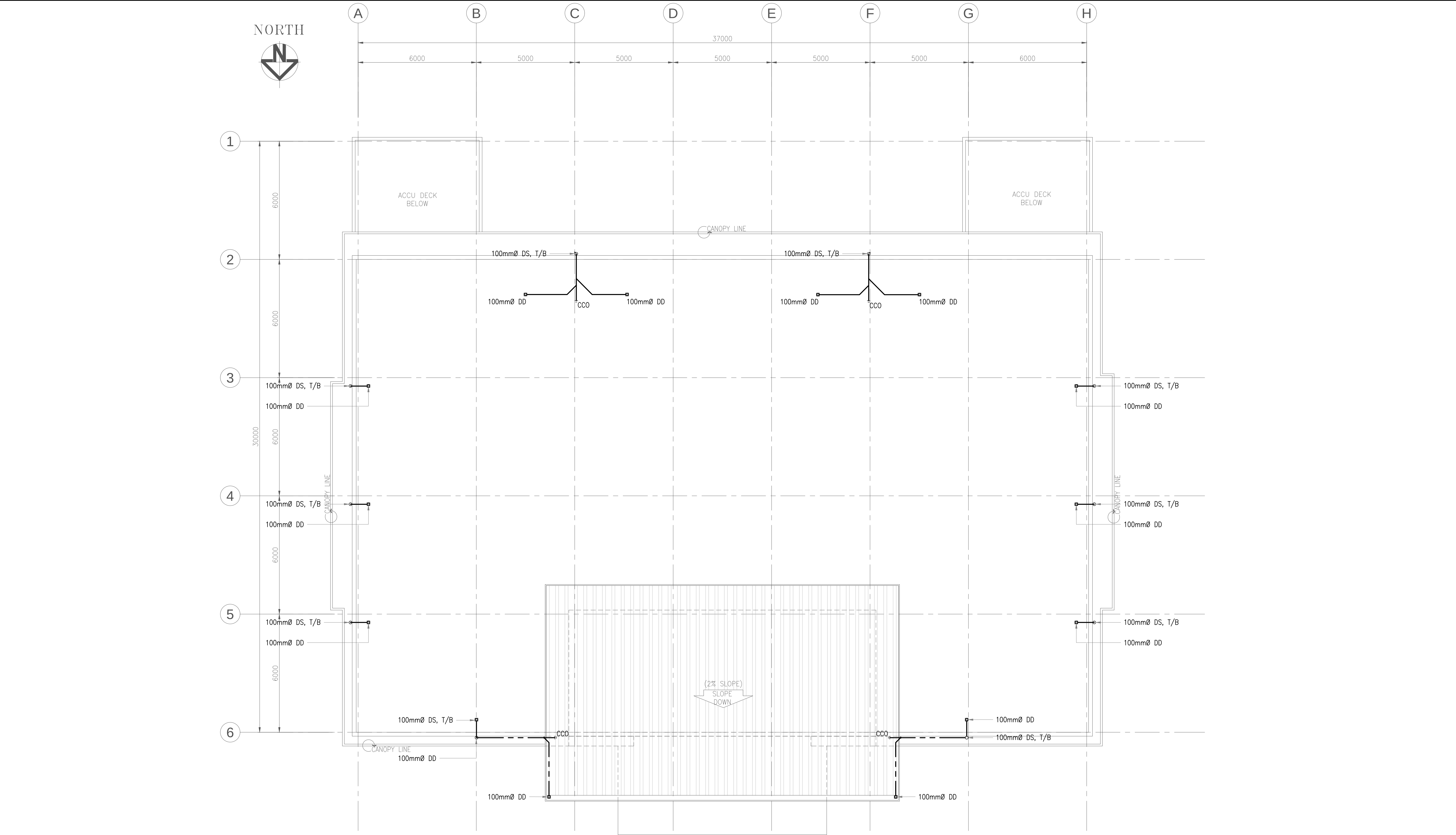
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CERTIFIED BY	OWNER	PROJECT TITLE/LOCATION	CLIENT	SHEET CONTENTS	R.A. 9266 SEC. 33	CADD	DATE	NO.	REVISIONS	CHK	DATE	PAPER SIZE	SHEET NO.
OSMUNDO C. DE VERA SANITARY ENGINEER	METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE	3-STOREY OFFICE BUILDING WITH ROOF DECK	PROJECT PROPONENT APPROVED BY:	SECOND FLOOR WASTEWATER LAYOUT	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.	RDGL	JUL 2018					20X30	P-0102
						JPLO	JUL 2018					SCALE	PROJECT NO.
						APPROVED	DATE					AS SHOWN	SO-G-17-036
						PIT	JUL 2018						



I THIRD FLOOR WASTEWATER LAYOUT
SCALE 1:100M

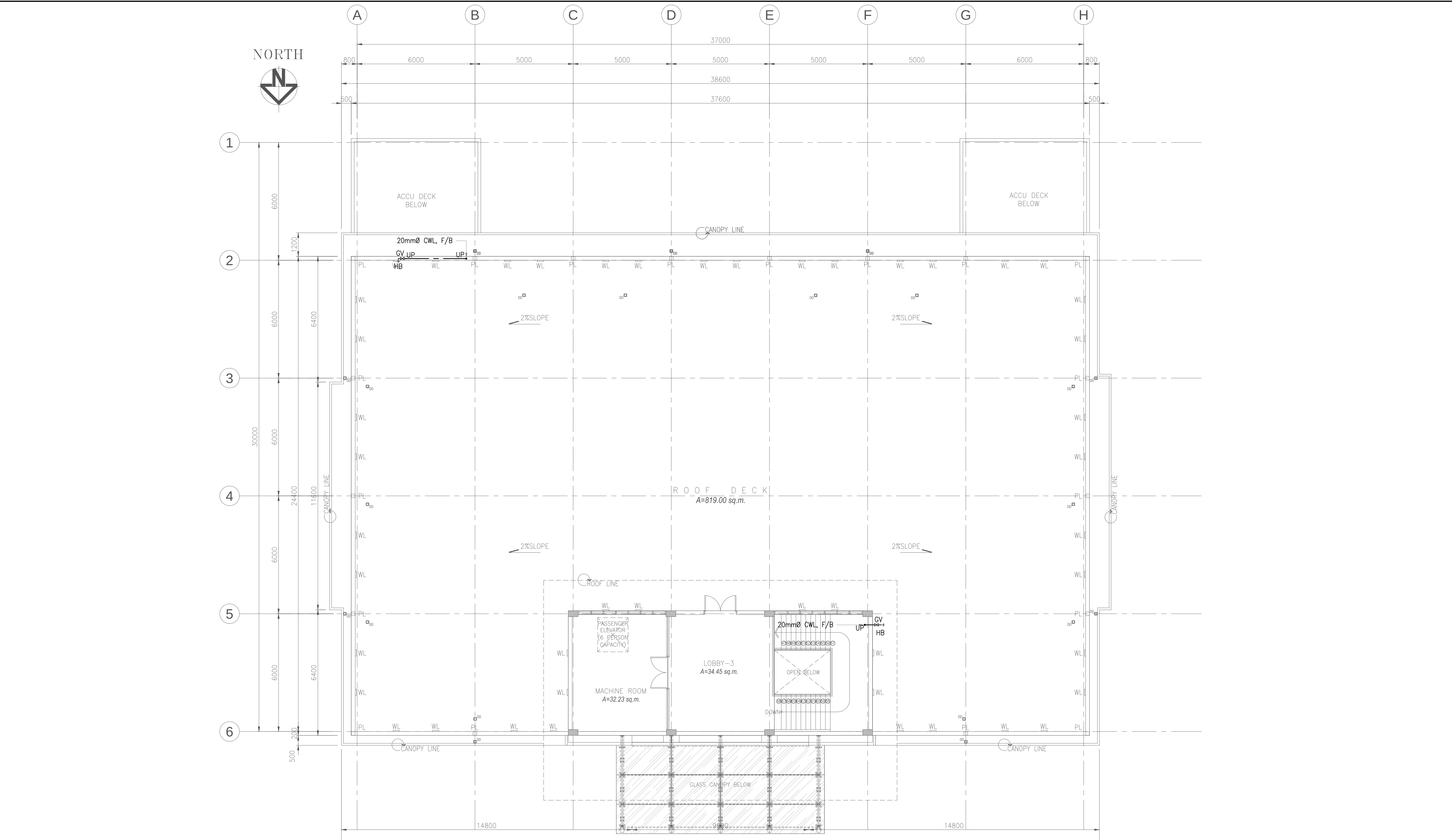
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OSMUNDO C. DE VERA	REG. NO.: 1490	METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE	3-STOREY OFFICE BUILDING WITH ROOF DECK	PROJECT PROPONENT	APPROVED BY:	THIRD FLOOR WASTEWATER LAYOUT	DRAWINGS AND SPECIFICATIONS AND CONTRACT DOCUMENTS 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.	RDGL	JUL 2018					20X30	P-0103
	PTR NO. : 106-911-960														
	PTR NO. : 6991162														
	SANITARY ENGINEER	DATE : JANUARY 04, 2018	MWSS COMPOUND, KATIPUNAN AVENUE, MATANGANG BALARA, QUEZON CITY	MWSS COMPOUND, KATIPUNAN AVENUE, MATANGANG BALARA, QUEZON CITY	MELCHOR S. CORDOVA ALTERNATE END-USER FOR RO BUILDING	PATRICK LESTER N. TY CHIEF REGULATOR, MWSS RO									
	PLACE : MANILA							APPROVED	DATE					AS SHOWN	SO-G-17-036
								PTT	JUL 2018						



I ROOF PLAN WASTEWATER LAYOUT
SCALE 1:100M

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OSMUNDO C. DE VERA SANITARY ENGINEER	REG. NO.: 1490	METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY	3-STOREY OFFICE BUILDING WITH ROOF DECK MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY	PROJECT PROPONENT MELCHOR S. CORDOVA ALTERNATE END-USER FOR RO BUILDING	APPROVED BY: PATRICK LESTER N. TY CHIEF REGULATOR, MWSS RO	ROOF PLAN WASTEWATER LAYOUT	RDGL	JUL 2018					20X30	P-0104
	TIN NO. : 106-911-960						DESIGNED	DATE					SCALE	PROJECT NO.
	PTR NO. : 6991162						JPLO	JUL 2018					AS SHOWN	SO-G-17-036
	DATE : JANUARY 04, 2018						APPROVED	DATE						
	PLACE : MANILA						PIT	JUL 2018						





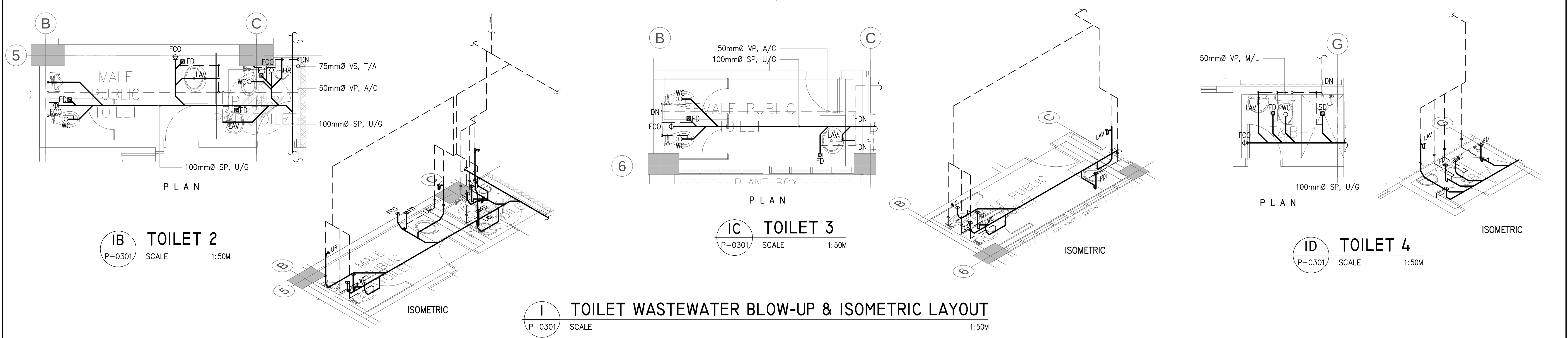
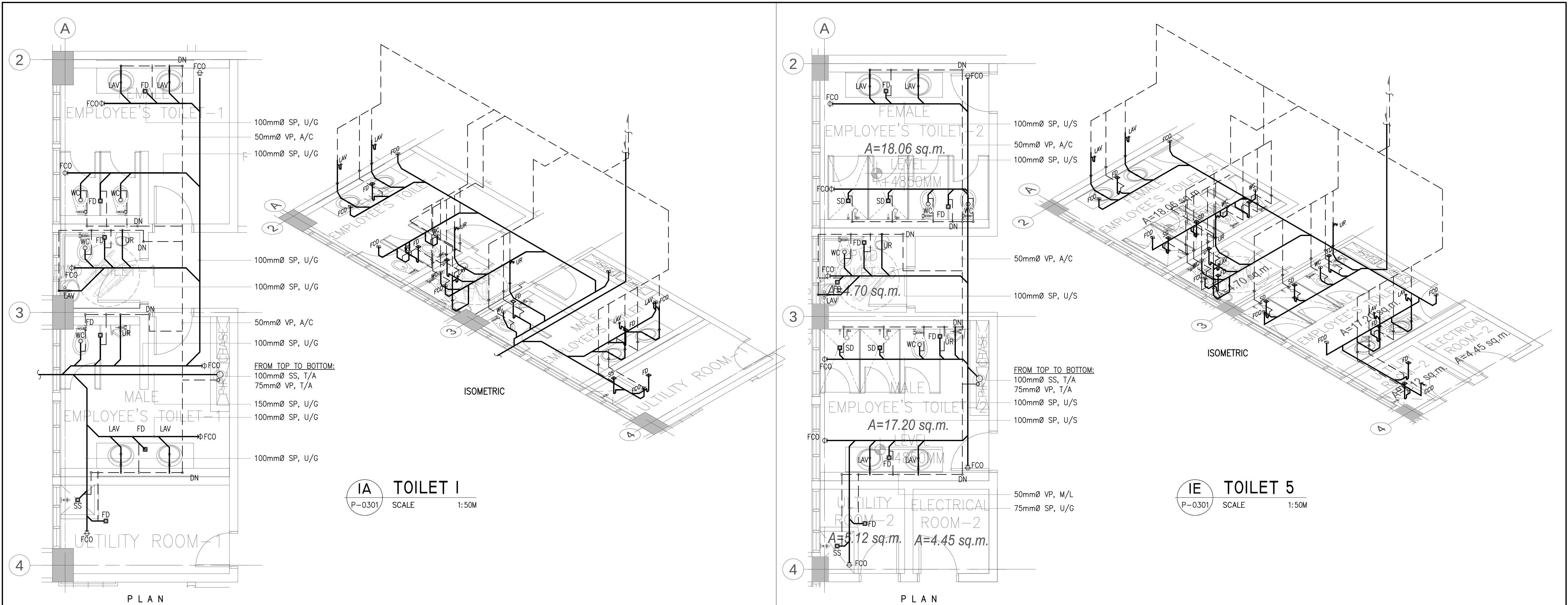
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P-0204

ROOF PLAN WATER SUPPLY LAYOUT

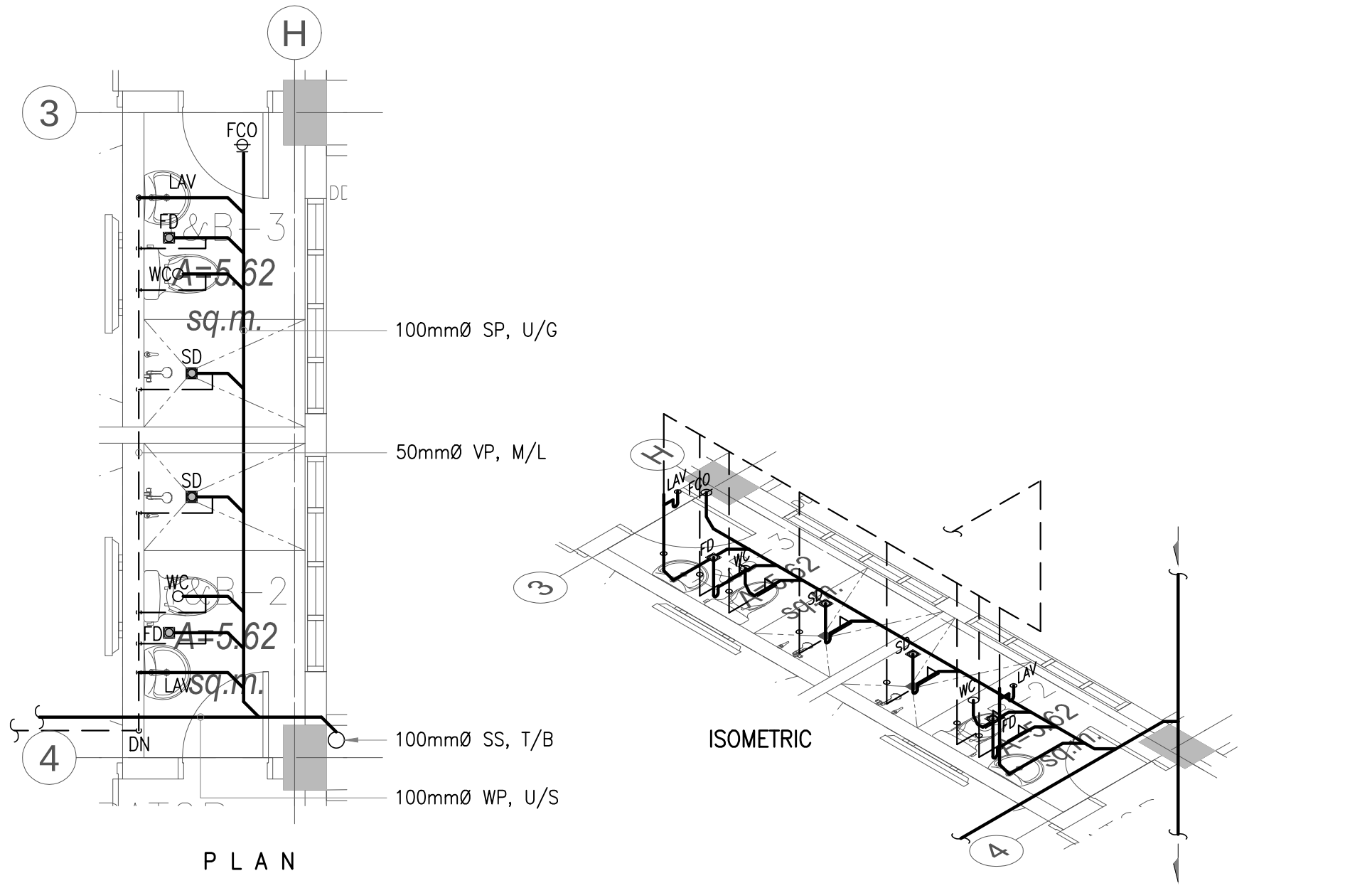
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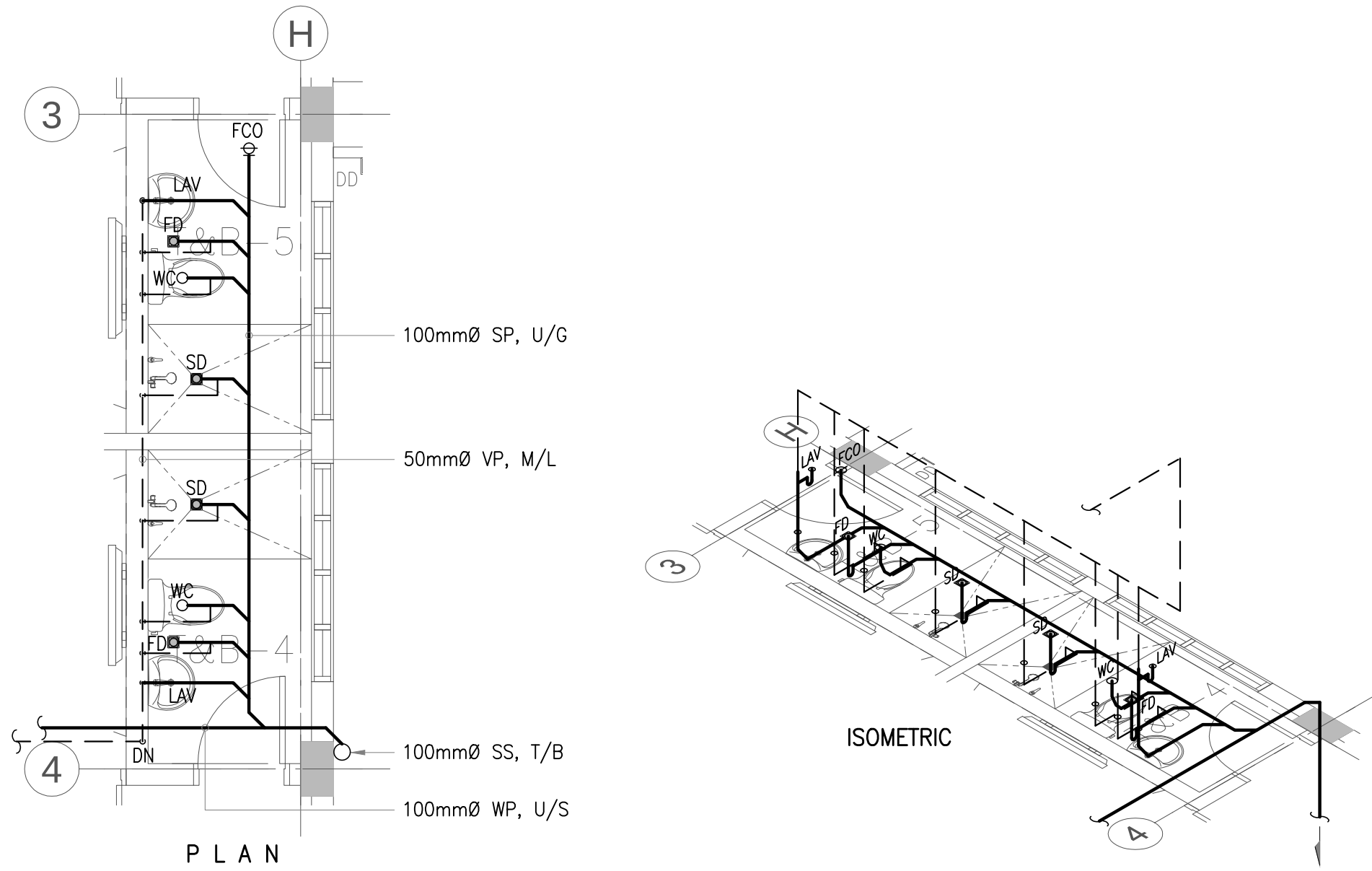
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	PLACE : MANILA			MELCHOR S. CORDOVA ALTERNATE END-USER FOR RO BUILDING	PATRICK LESTER N. TY CHIEF REGULATOR, MWSS RO		PIT	JUL 2018						



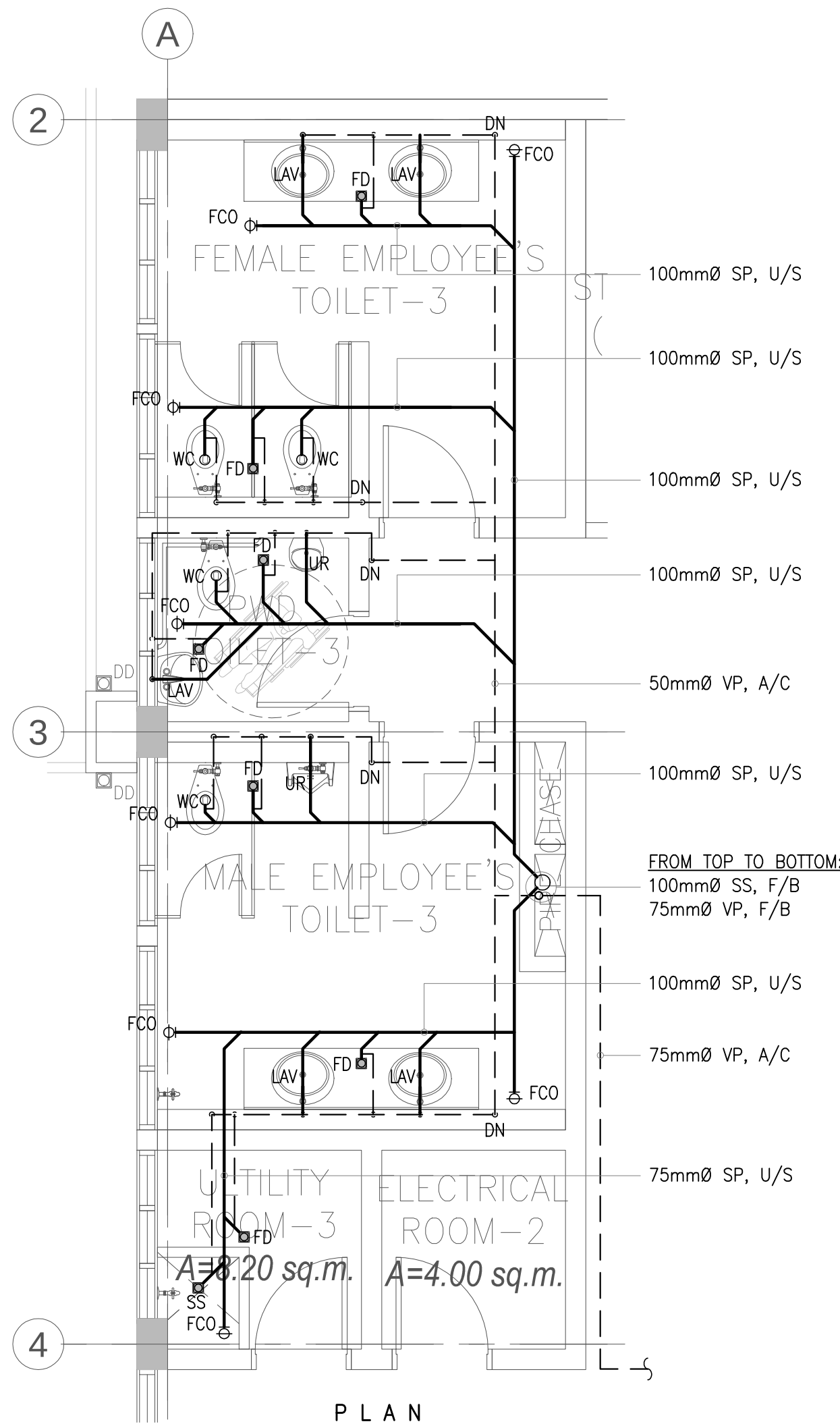
a.c.o.n.g. CONSULTING INC. Engineering + Management ISO 9001:2015 Certified 2F LTA Building 118 Perea Street, Legaspi Village, 1229 Makati City, Philippines Tel. Nos.: +63 2 8935827 Fax No.: +63 2 8935829 Email: acoconsulting@aco.com.ph Website: www.aco.com.ph	CERTIFIED BY OSMUNDO C. DE VERA SANITARY ENGINEER	REG. NO.: 1490	OWNER METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE	PROJECT TITLE/LOCATION 3-STOREY OFFICE BUILDING WITH ROOF DECK	CLIENT PROJECT PROPONENT MELCHOR S. CORDOVA ALTERNATE END-USER FOR RO BUILDING	APPROVED BY: PATRICK LESTER N. TY CHIEF REGULATOR, MWSS RO	SHEET CONTENTS TOILET WASTEWATER BLOW-UP & ISOMETRIC LAYOUT	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.
		TIN NO. : 106-911-960							RDGL	JUL 2018					20X30	P-0301
		PTR NO. : 6991162							DESIGNED	DATE					SCALE	PROJECT NO.
		DATE : JANUARY 04, 2018							JPLO	JUL 2018					AS SHOWN	SO-G-17-036
		PLACE : MANILA							APPROVED	DATE						
									PIT	JUL 2018						



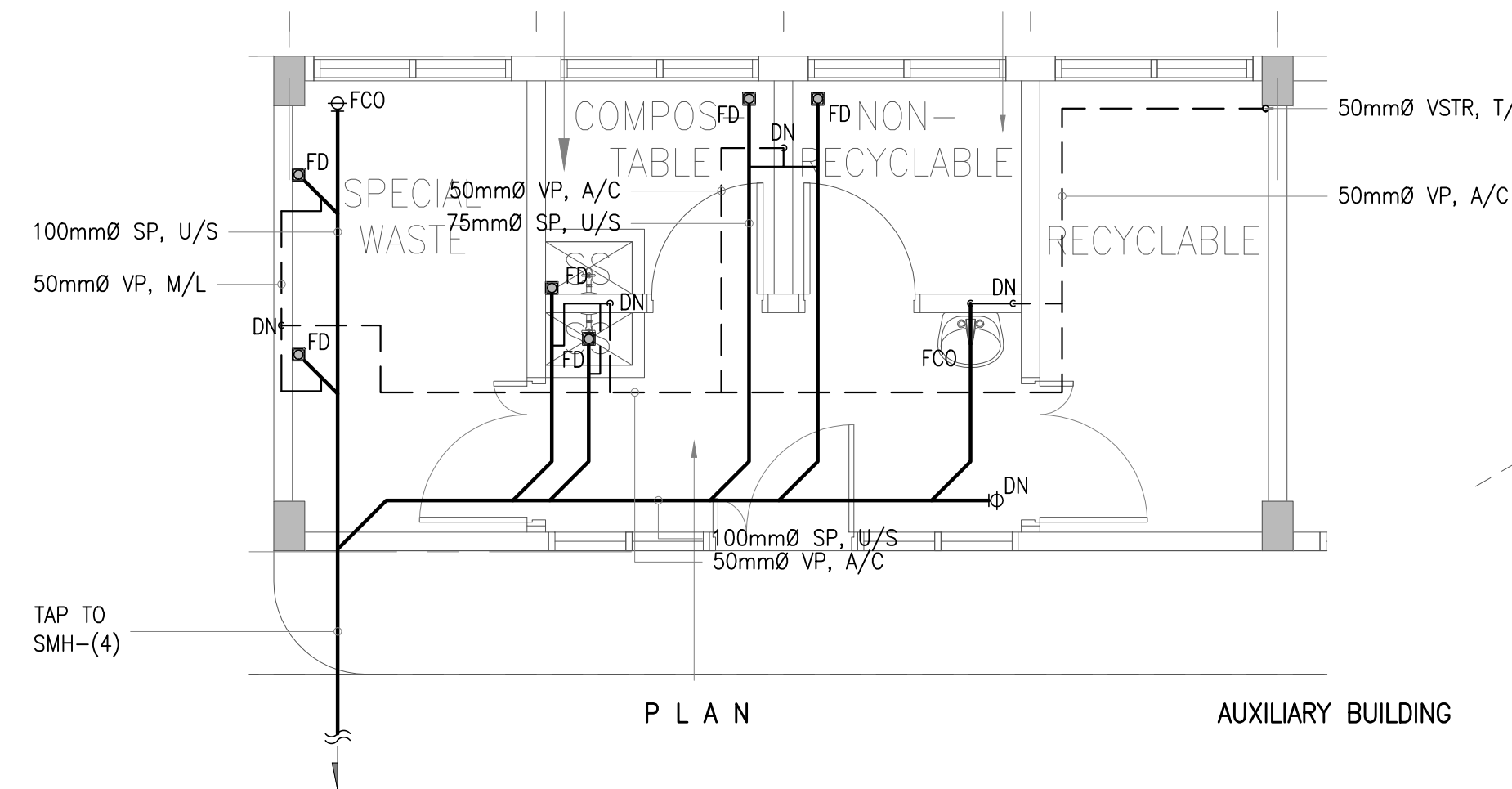
IF TOILET 6
P-0302 SCALE 1:50M



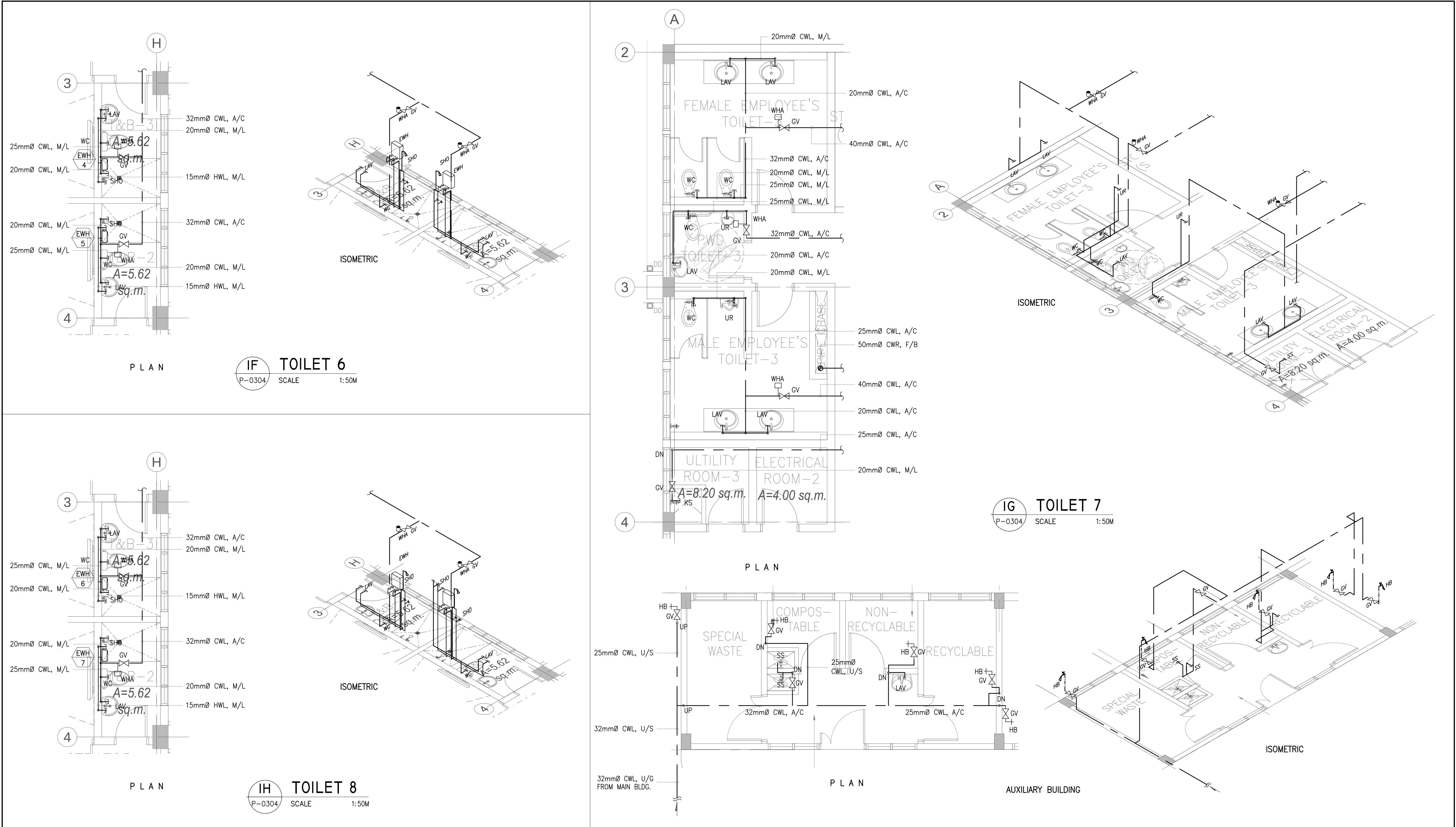
IH TOILET 8
P-0302 SCALE 1:50M



IG TOILET 7
P-0302 SCALE 1:50M

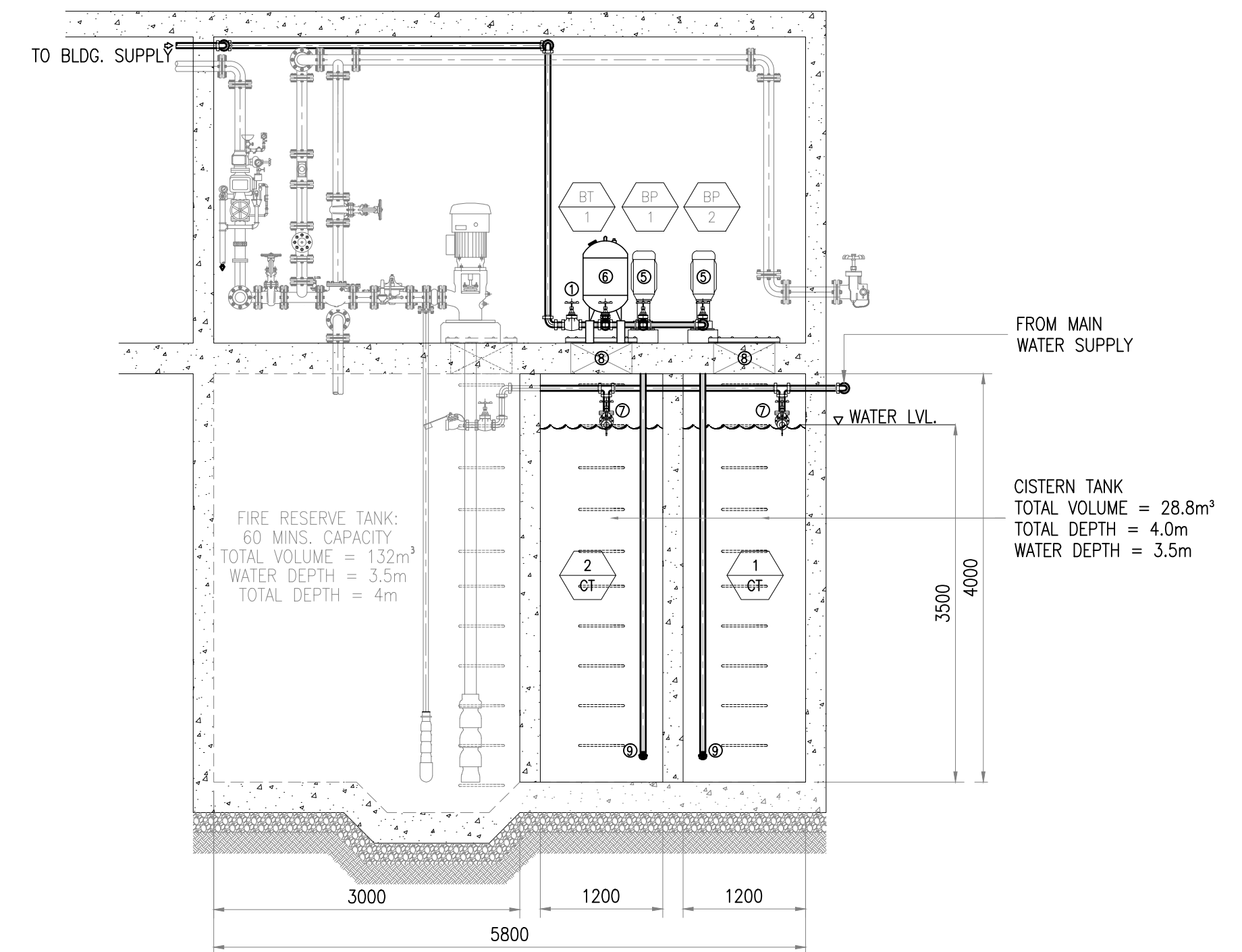
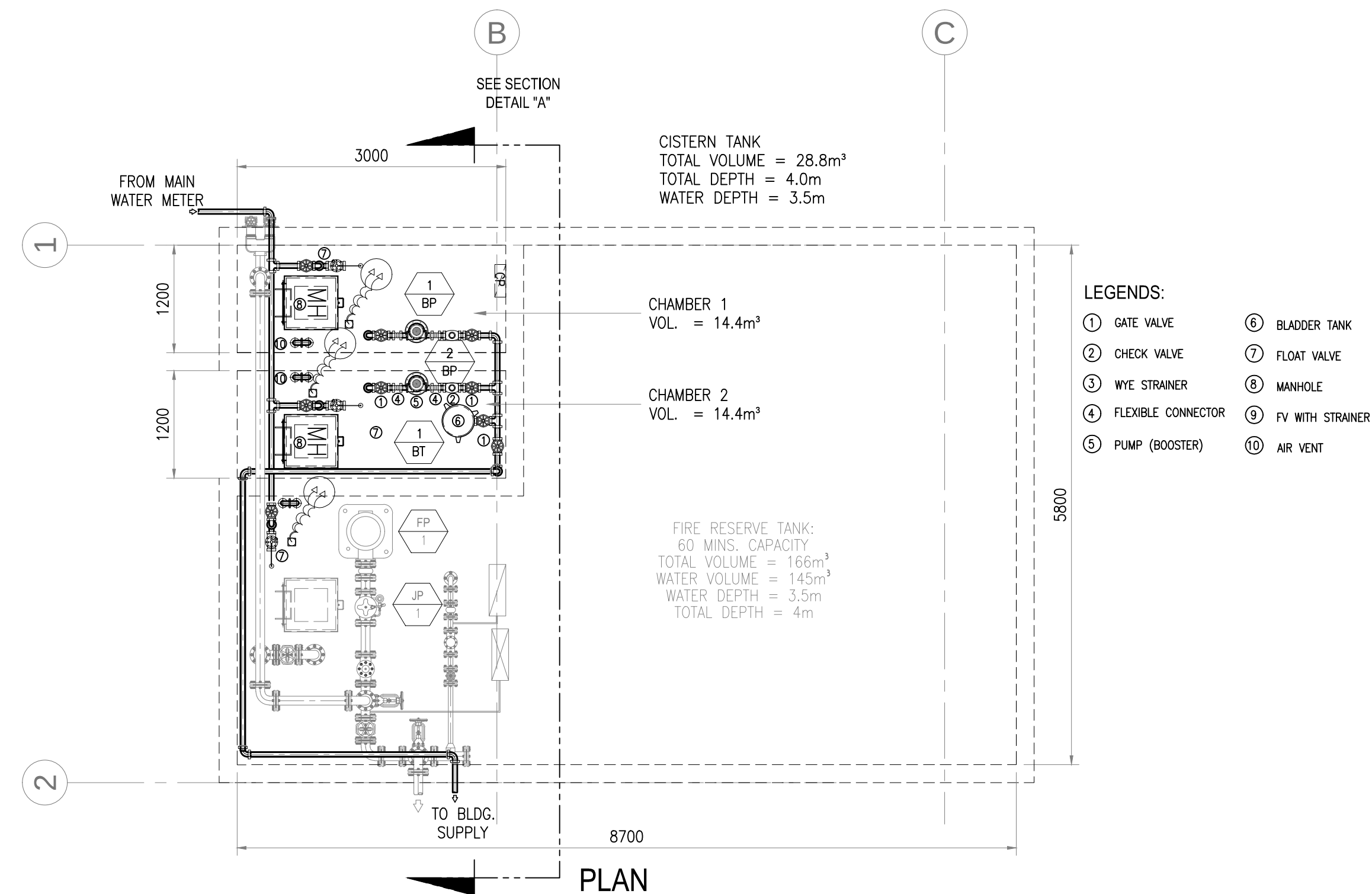


I TOILET WASTEWATER BLOW-UP & ISOMETRIC LAYOUT
P-0302 SCALE 1:50M

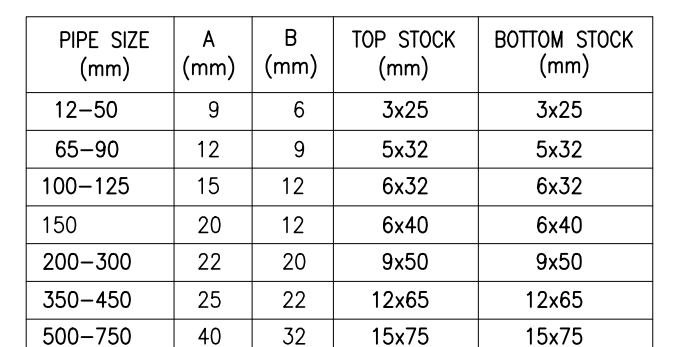


I TOILET WATER SUPPLY BLOW-UP & ISOMETRIC LAYOUT
P-0304 SCALE 1:50M

CERTIFIED BY	REG. NO.: 1490	OWNER	PROJECT TITLE/LOCATION	CLIENT	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.
OSMUNDO C. DE VERA	TIN NO. : 106-911-960	METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM REGULATORY OFFICE	3-STOREY OFFICE BUILDING WITH ROOF DECK	PROJECT PROPONENT	TOILET WATERSUPPLY BLOW-UP & ISOMETRIC LAYOUT		RDGL	JUL 2018					20X30	P-0304
SANITARY ENGINEER	PTR NO. : 6991162			MELCHOR S. CORDOVA ALTERNATE END-USER FOR RO BUILDING	PATRICK LESTER N. TY CHIEF REGULATOR, MWSS RO		JPLO	JUL 2018					SCALE	PROJECT NO.
	DATE : JANUARY 04, 2018	MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY	MWSS COMPOUND, KATIPUNAN AVENUE, MATANDANG BALARA, QUEZON CITY				APPROVED	DATE					AS SHOWN	SO-G-17-036
	PLACE : MANILA						PIT	JUL 2018						



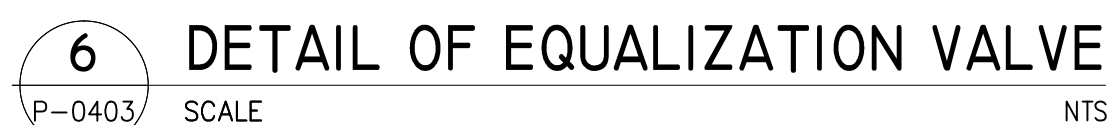
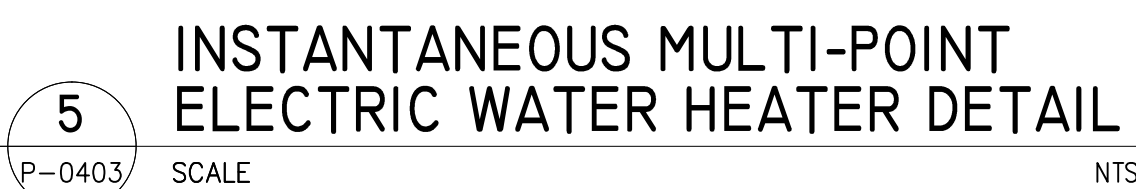
I PUMP ROOM LAYOUT
P-040 SCALE 1:50M



10 DECK DRAIN
P-0402 SCALE NTS



12 PIPE HANGER & SUPPORT DETAIL



PLANTERS BOX DRAIN DETAIL OF PERFORATED

