

GENERAL NOTES:

- ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 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:  
a. SANITARY AND STORM DRAINAGE PIPES: FOR 80mm AND SMALLER – 1:50  
FOR 100mm AND LARGER – 1:100
- EXACT LOCATION OF EXISTING UTILITIES (WATERLINES, SEWER LINES, MANHOLES, AND STORM DRAINAGE LINES) 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 OWNER AUTHORIZED REPRESENTATIVE.
- 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 DISCHARGE PIPES SHALL BE CENTRIFUGALLY CAST 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 DOMESTIC, C/T MAKE-UP 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 PIPE SHALL BE TWO SIZES LARGER AND THE HDPE PIPE SHALL BE ONE SIZE LARGER THAN WHAT IS INDICATED IN THE DRAWINGS (SEE SCHEDULE OF WATER LINES EQUIVALENT PIPE DIAMETER).
- CONDENSATE DRAIN LINES SHALL BE INSULATED WITH FLEXIBLE CLASS 0 CLOSED CELL ELASTOMERIC RUBBER WITH THICKNESS AS SPECIFIED BELOW

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

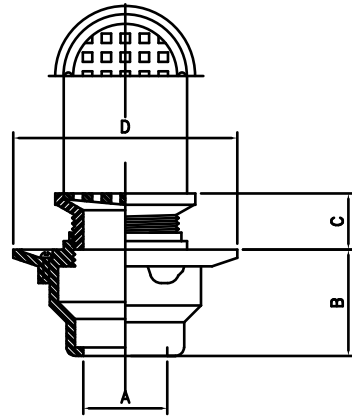
- THE TRANSFER PUMP SHALL BE PROVIDED WITH SOFT START AND SOFT STOP MOTOR STARTER. IN ADDITION, HIGH PRESSURE PUMP CONTROL VALVE (PCV) AND HIGH PRESSURE RELIEF AND SURGE ANTICIPATING VALVE W/ SOLENOID CONTROL (PR/SAV) SHALL BE PROVIDED AT THE DISCHARGE PIPE AND HEADER OF THE TRANSFER PUMPS RESPECTIVELY.
- CONSTANT PRESSURE SYSTEM (CPS) LEAD AND MAIN PUMPS SHALL BE INDIVIDUALLY PROVIDED WITH VARIABLE FREQUENCY DRIVE (VFD).
- 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.

WATER LINES EQUIVALENT PIPE INSIDE DIAMETER

NOMINAL PIPE DIAMETER (mm)	POLYPROPYLENE-RANDOM (PPR) PIPE PN20 (mm)	HIGH DENSITY POLYETHYLENE (HDPE) PIPE-PE 100/PN16 (mm)
15	25	–
20	32	–
25	40	–
32	50	–
40	63	–
50	75	–
65	90	–
75	110	–
100	–	125
150	–	180
200	–	225
250	–	280
300	–	355

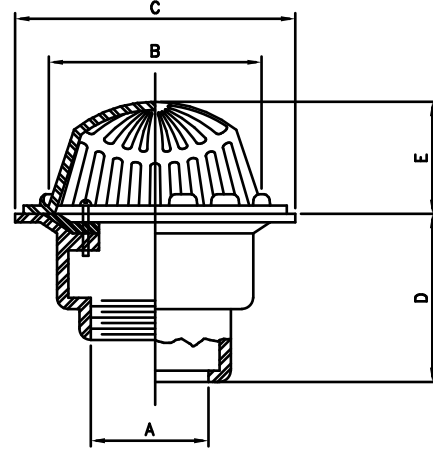
MAX. SPACING OF PIPE SUPPORT

PIPE DIAMETER (mm)	POLYPROPYLENE-RANDOM (PPR) PIPE (m)	HIGH DENSITY POLYETHYLENE (HDPE) PIPE (m)
25	0.75	–
32	0.75	–
40	0.75	–
50	1.00	–
63	1.00	–
75	1.00	–
90	1.25	–
110	1.25	–
125	–	1.50
180	–	1.50
225	–	1.50
280	–	1.75
355	–	1.75



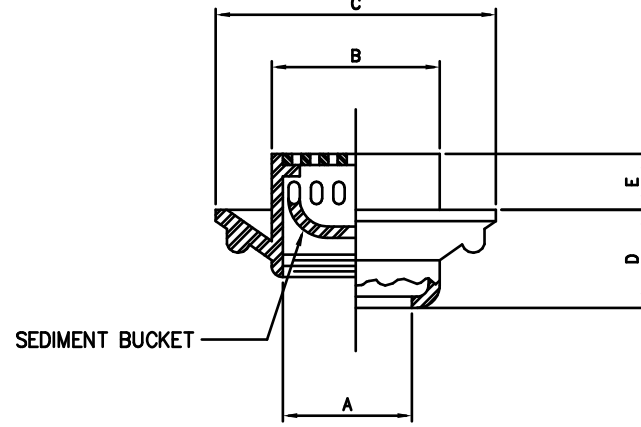
PIPE SIZE A(mm)	DIMENSION (M)			REMARKS
	B	C	D	
50	0.089	0.046	0.225	SIMILAR TO METMA MODEL M-200-B OR APPROVED EQUAL
75	0.089	0.046	0.225	–DO–
100	0.089	0.052	0.225	–DO–

1  
P0001  
TOILET-FLOOR DRAIN (TYPE-1)  
NTS



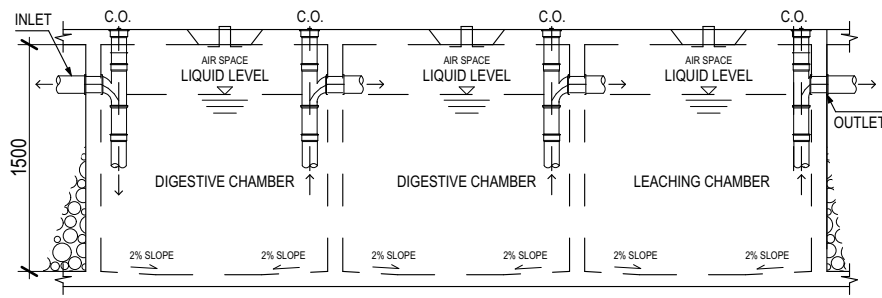
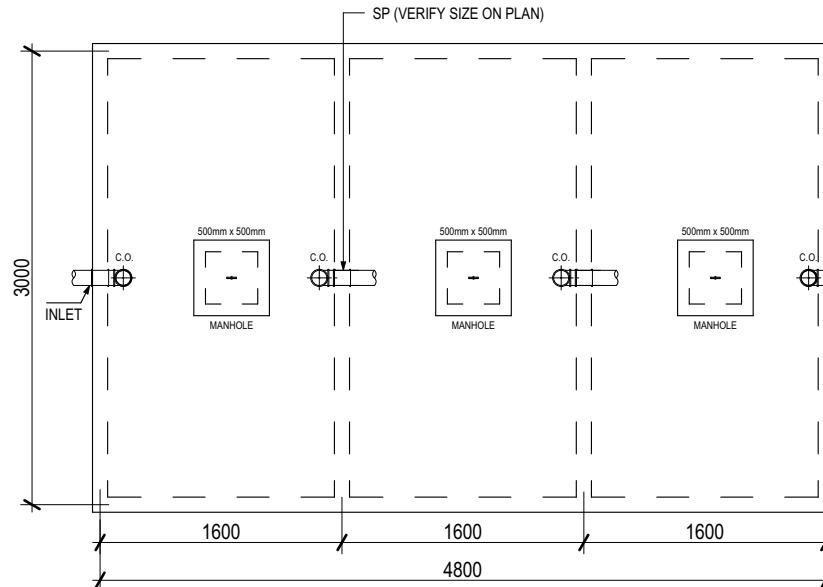
PIPE SIZE A(mm)	DIMENSION (M)				REMARKS
	B	C	D	E	
50	0.203	0.381	0.133	0.095	SIMILAR TO METMA MODEL M-250-C2 OR APPROVED EQUAL
75	0.203	0.381	0.133	0.095	–DO–
100	0.203	0.381	0.133	0.095	–DO–

2  
P0001  
ROOF DRAIN  
NTS



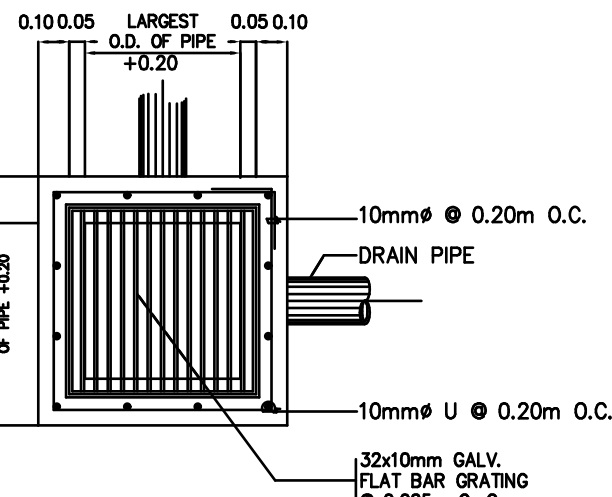
PIPE SIZE A(mm)	DIMENSION (M)				REMARKS
	B	C	D	E	
50	0.254	0.343	0.102	0.064	SIMILAR TO METMA MODEL M-249-21 OR APPROVED EQUAL
75	0.254	0.343	0.102	0.064	–DO–
100	0.254	0.343	0.102	0.064	–DO–

3  
P0001  
DECK/KIT. FLOOR DRAIN (TYPE-2)  
NTS

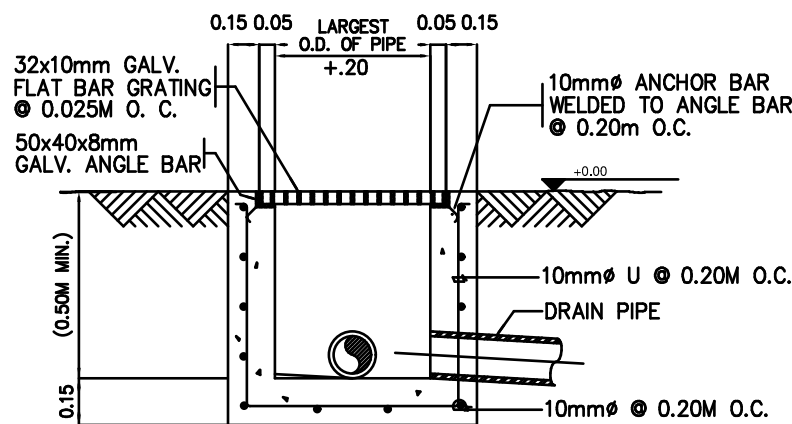


SECTION

4  
P0001  
DETAILED PLAN OF SEPTIC TANK  
SCALE: 1 : 100

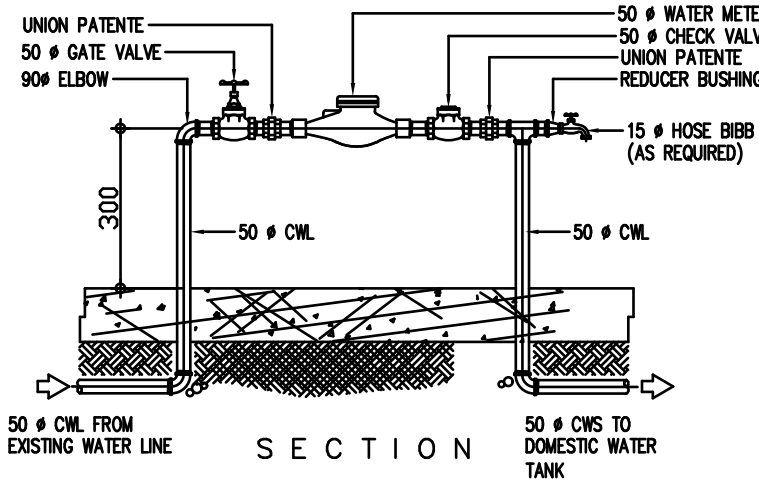


PLAN



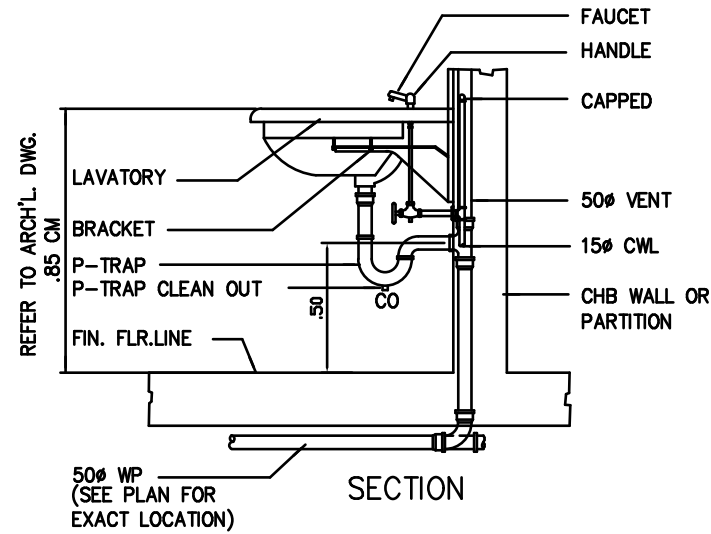
SECTION

5  
P0001  
AREA DRAIN AND CATCH BASIN  
NTS



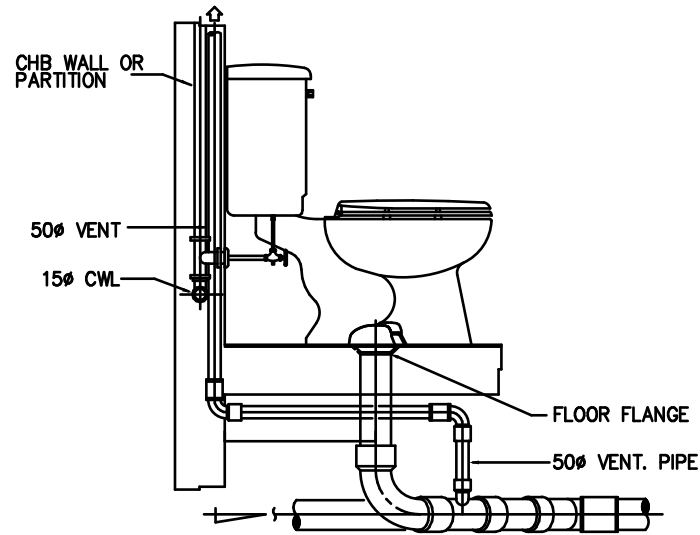
SECTION

6  
P0001  
DETAIL OF MAIN WATER METER  
NTS



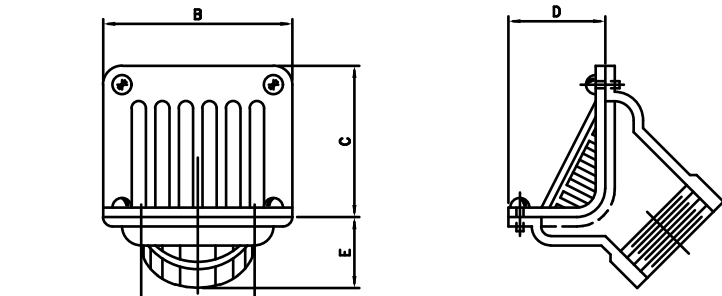
SECTION

7  
P0001  
DETAIL OF LAVATORY MOUNTING  
NTS



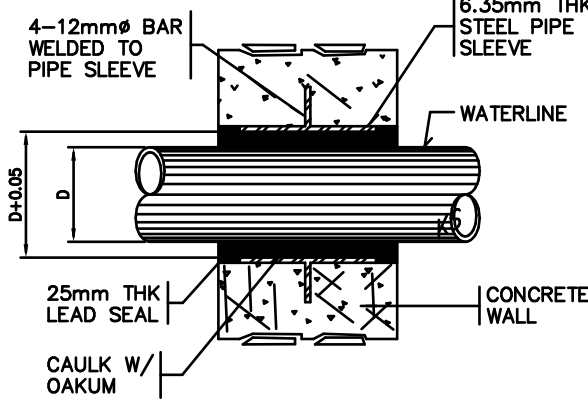
SECTION (FLUSH TANK TYPE)

8  
P0001  
DETAIL OF WATER CLOSET MOUNTING  
NTS

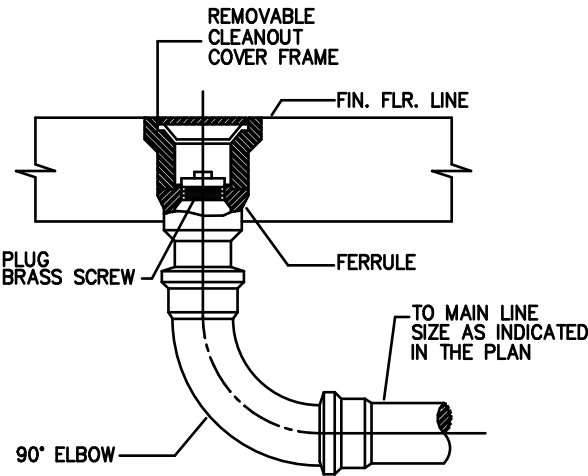


PIPE SIZE A(mm)	DIMENSION (M)				REMARKS
	B	C	D	E	
50	0.146	0.070	0.079	0.057	SIMILAR TO METMA MODEL M-319-45 OR APPROVED EQUAL
75	0.0197	0.089	0.108	0.070	–DO–
100	0.0197	0.089	0.108	0.070	–DO–

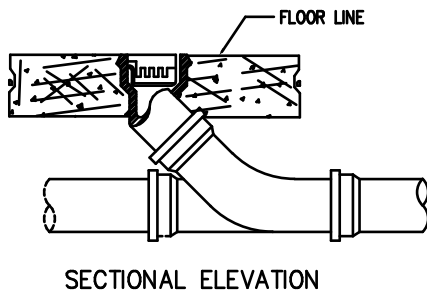
9  
P0001  
SCUPPER DRAIN  
NTS



10  
P0001  
DETAIL OF PIPE SLEEVE  
NTS

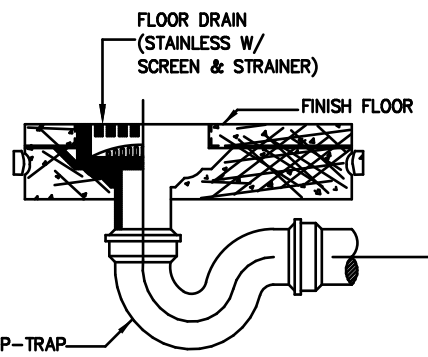


11  
P0001  
FLOOR CLEANOUT DETAIL  
NTS



SECTIONAL ELEVATION

12  
P0001  
FLOOR CLEANOUT DETAIL  
NTS



P-TRAP

13  
P0001  
FLOOR DRAIN MOUNTING DETAIL  
NTS

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RA 9296, SECTION 33  
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OWNER

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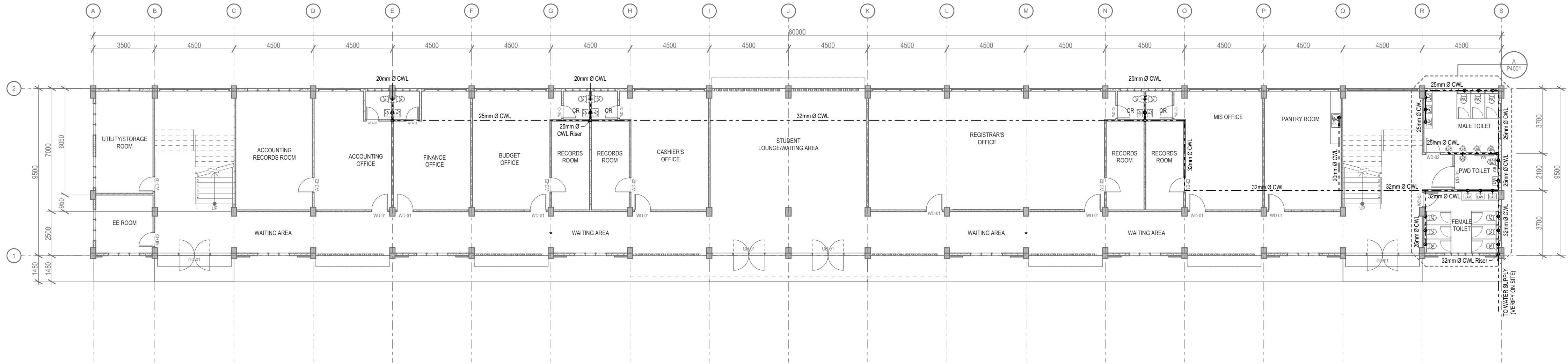
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GENERAL NOTES,  
MISCELLANEOUS DETAILS,  
DETAILED PLAN OF SEPTIC  
TANK

PROJ. NO. 200520

**P0001**

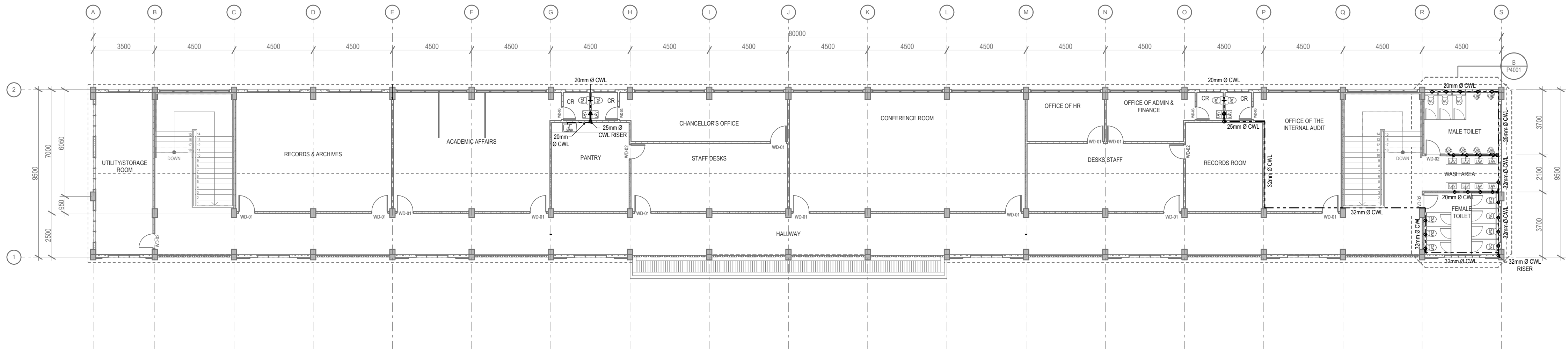




1  
P1001

GROUND FLOOR WATER SUPPLY LAYOUT

SCALE: 1 : 150



2  
P1001

SECOND FLOOR WATER SUPPLY LAYOUT

SCALE: 1 : 150

REV. NO.	REVISION DESCRIPTION	DATE

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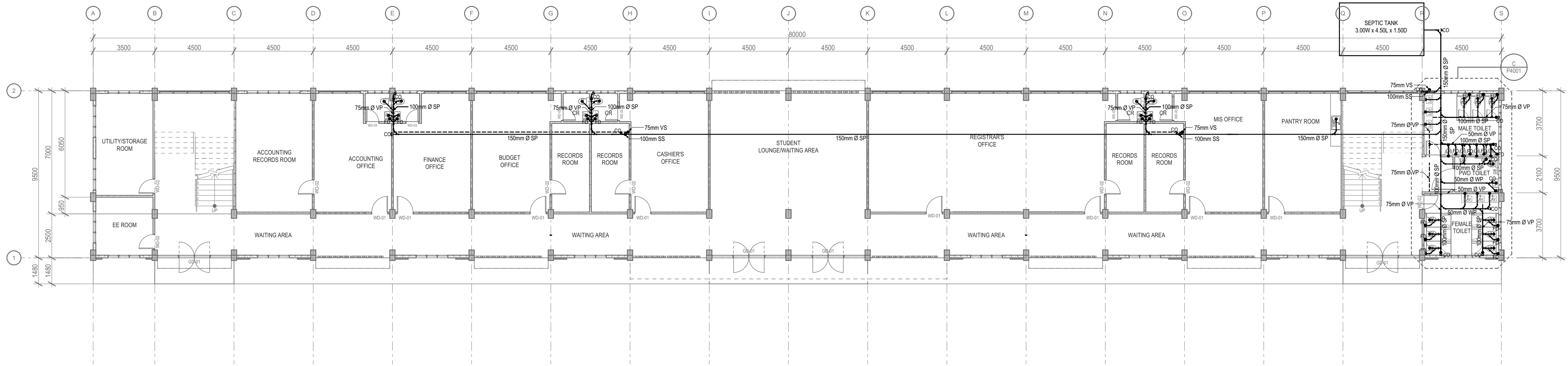
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WATER SUPPLY LAYOUT

PROJ. NO. 200520

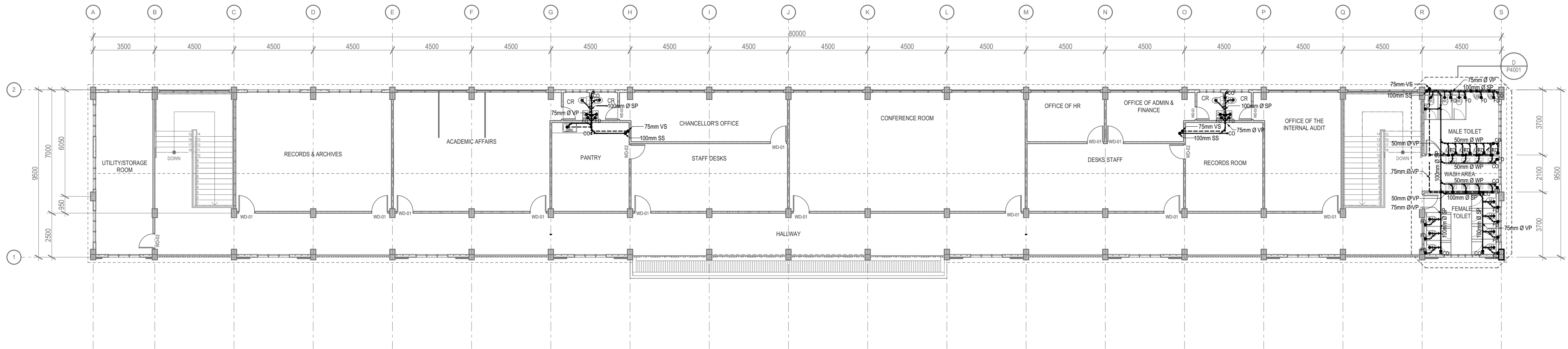
P1001



1  
P1002

GROUND FLOOR SANITARY LAYOUT

SCALE: 1 : 150



2  
P1002

SECOND FLOOR SANITARY LAYOUT

SCALE: 1 : 150

REV. NO.	REVISION DESCRIPTION	DATE

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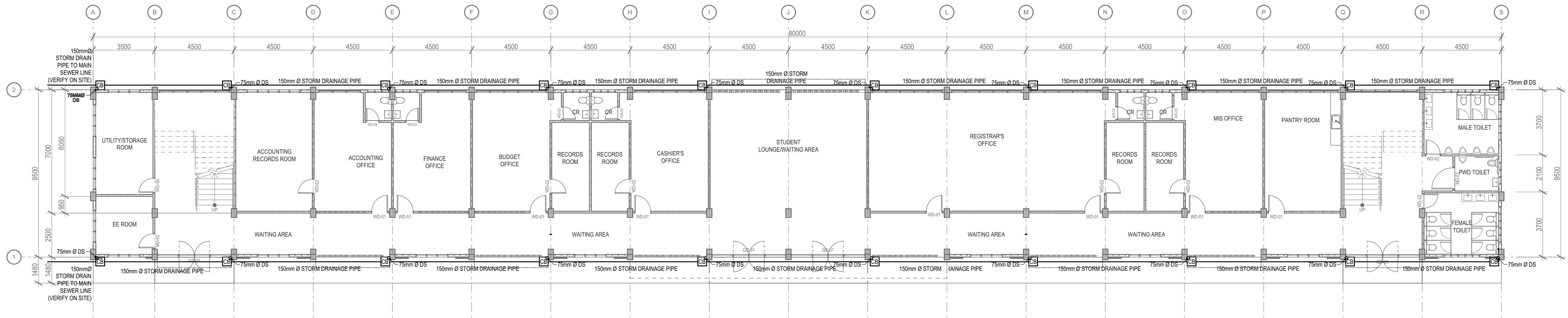
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SANITARY LAYOUT

PROJ. NO. 200520

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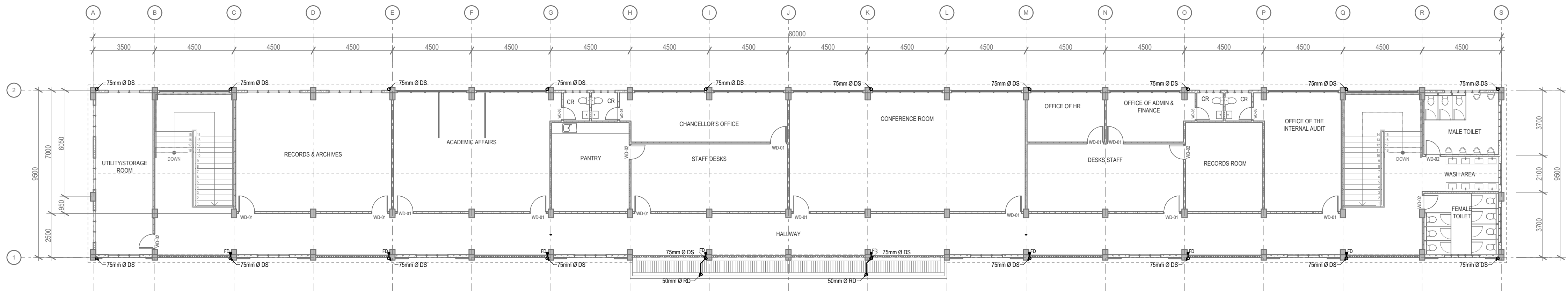




1  
P1003

GROUND FLOOR STORM DRAINAGE LAYOUT

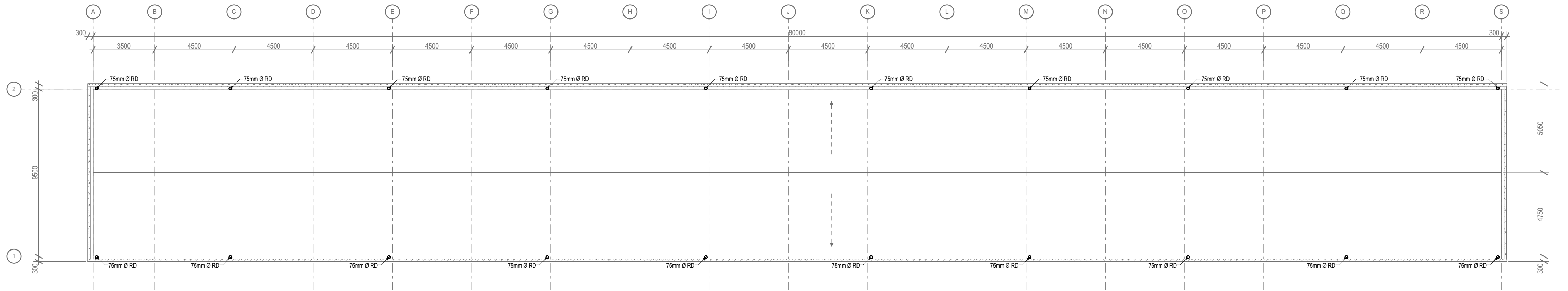
SCALE: 1 : 150



2  
P1003

SECOND FLOOR STORM DRAINAGE LAYOUT

SCALE: 1 : 150



3  
P1003

ROOF STORM DRAINAGE LAYOUT

SCALE: 1 : 150

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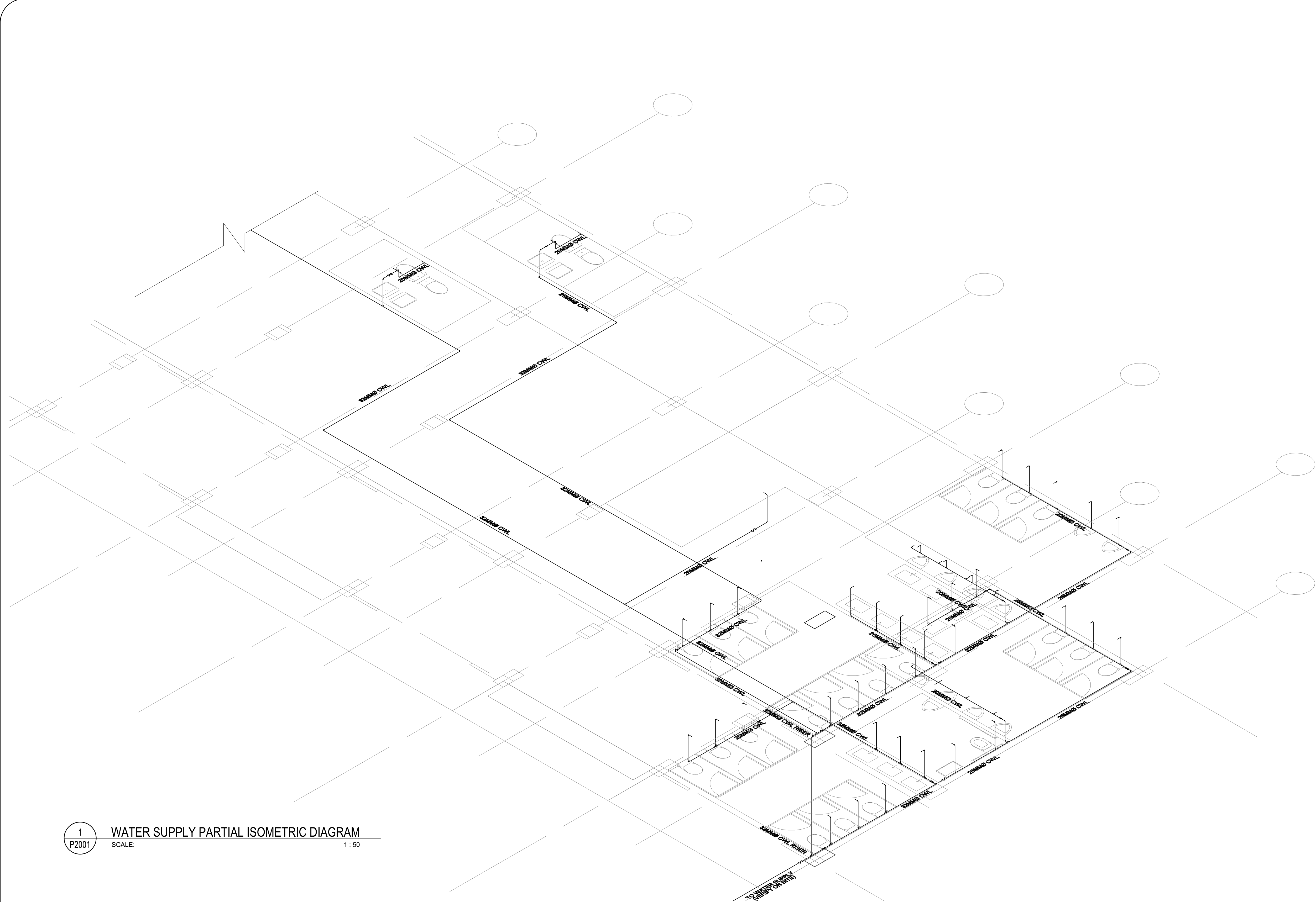
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STORM DRAINAGE LAYOUT

PROJ. NO. 200520

**P1003**

REV. NO.	REVISION DESCRIPTION	DATE



1 WATER SUPPLY PARTIAL ISOMETRIC DIAGRAM  
P2001 SCALE: 1 : 50

KEYPLAN

REV. NO.	REVISION DESCRIPTION	DATE

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MASTER PLUMBER

PRC NO. 11060

Validity 09 MAY 2023

PTR NO. 6903592

Date Issued 17 JULY 2020

TIN 483 354 337

Issued at PASIG CITY

CHECKED BY

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PROJECT

REPAIR/REHABILITATION OF COLLEGE MAIN BUILDING INTO A  
TWO-STOREY ADMINISTRATION BUILDING  
Brgy. Binongtoan Alangalang, Leyte, Philippines

OWNER

VISAYAS STATE UNIVERSITY- ALANGALANG  
Visayas State University, Brgy. Binongtoan Alangalang, Leyte, Philippines

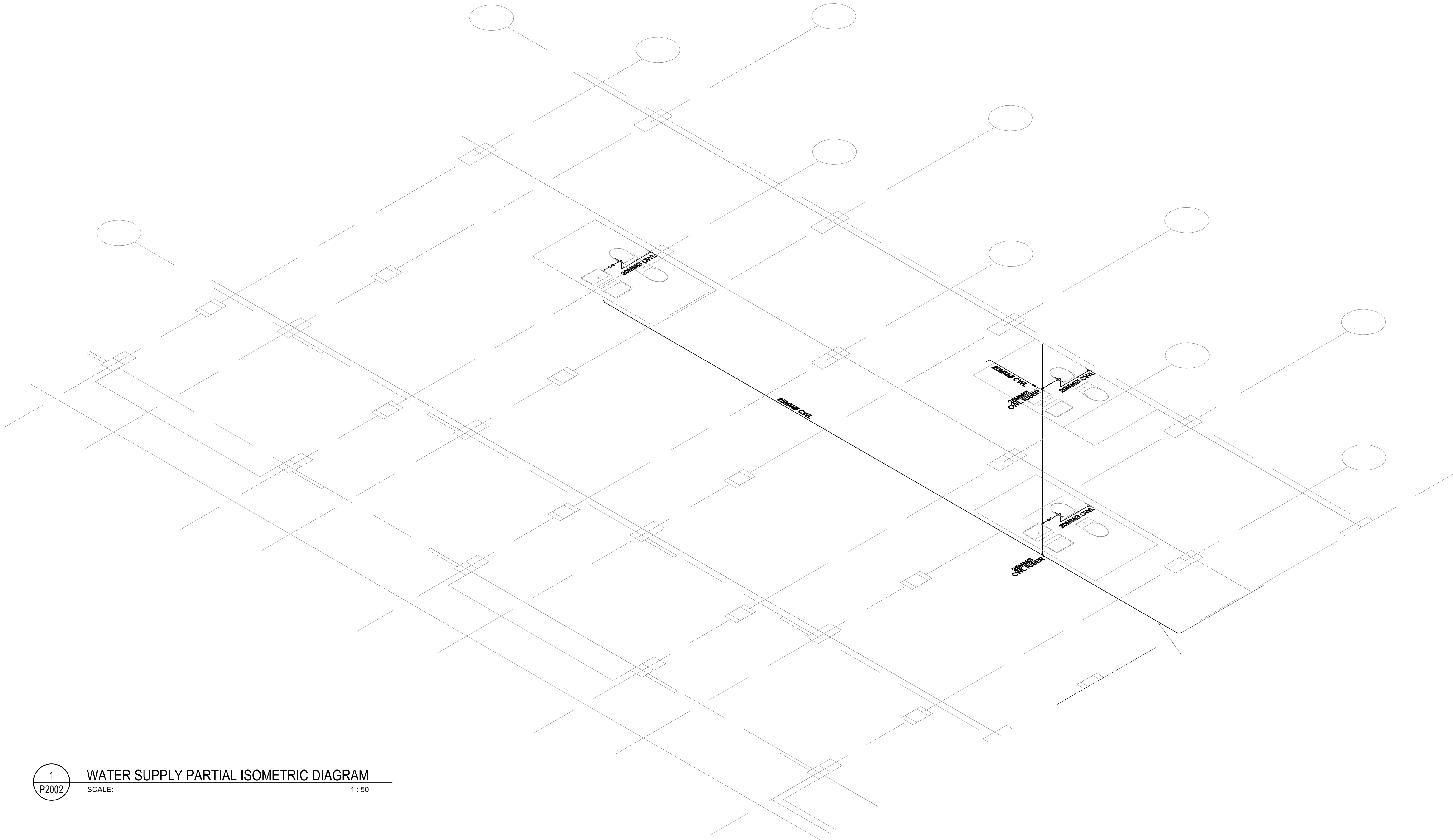
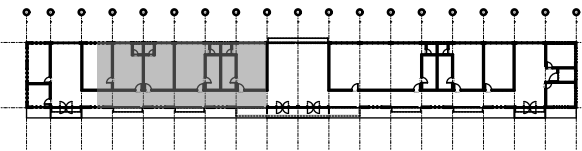
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WATER SUPPLY ISOMETRIC  
DIAGRAM

PROJ. NO. 200520

P2001



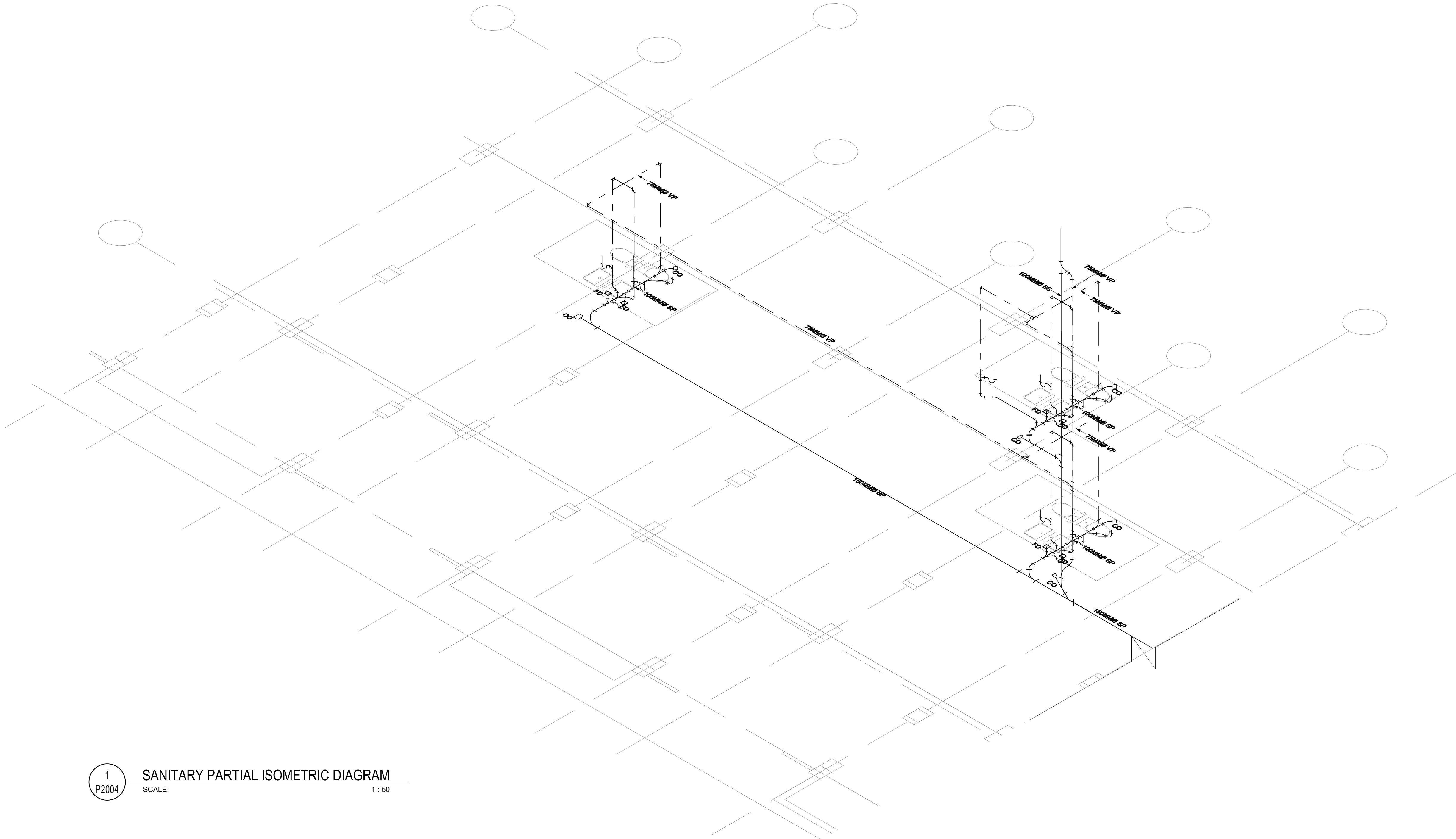
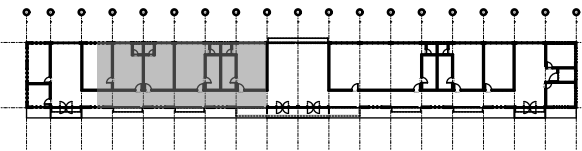


1 WATER SUPPLY PARTIAL ISOMETRIC DIAGRAM  
P2002 SCALE: 1 : 50

REV. NO.	REVISION DESCRIPTION	DATE







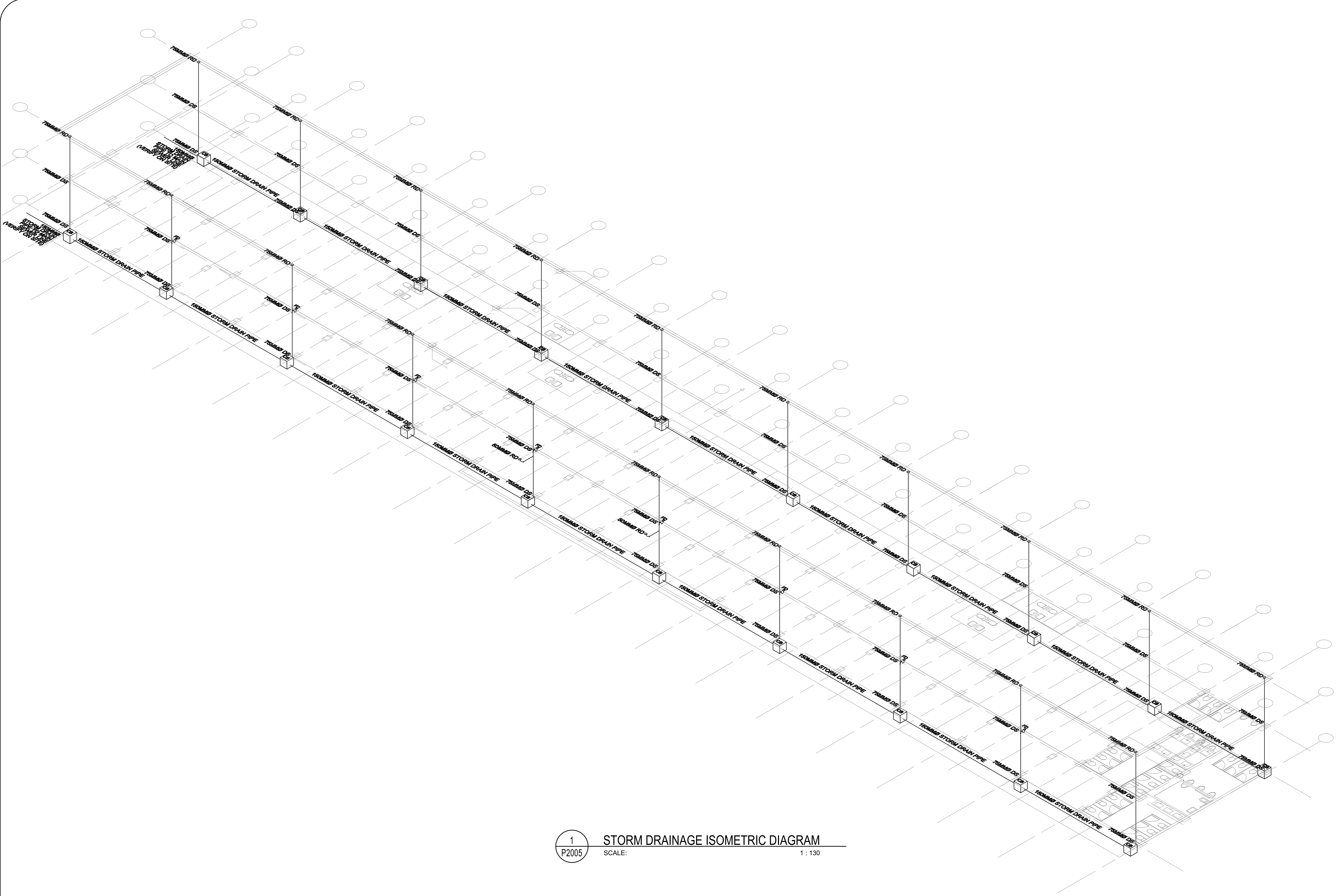
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P2004

SANITARY PARTIAL ISOMETRIC DIAGRAM

SCALE: 1 : 50

REV. NO.	REVISION DESCRIPTION	DATE






1  
P2005

STORM DRAINAGE ISOMETRIC DIAGRAM

SCALE: 1 : 130

REV. NO.	REVISION DESCRIPTION	DATE


PREPARED BY



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IAPDA NO.	37667 297236 090920	Validity	31 JUNE 2021
PTR NO.	6875677	Date Issued	22 JUNE 2020
TIN	483 354 337	Issued at	PASIG CITY

RA 9296 SECTION 33  
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ERICA JOYCE G. TANGALIN

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SHEET CONTENTS

STORM DRAINAGE ISOMETRIC DIAGRAM

PROJ. NO. 200520

P2005

OWNER

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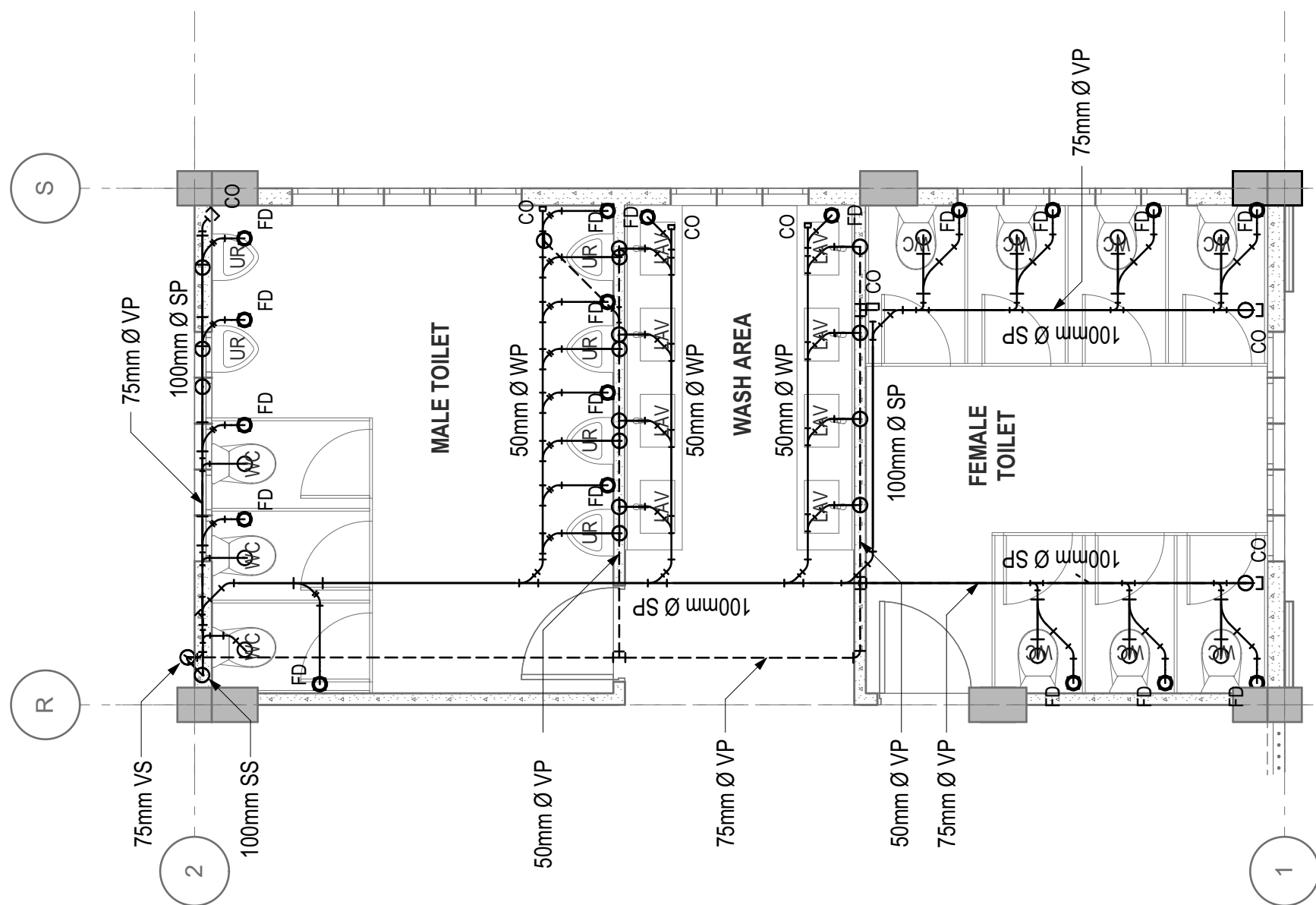
**VISAYAS STATE UNIVERSITY- ALANGALANG**  
Visayas State University, Brgy. Binongtoan Alangalang, Leyte, Philippines

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ENLARGED WATER SUPPLY  
LAYOUT & ENLARGED  
SANITARY LAYOUT

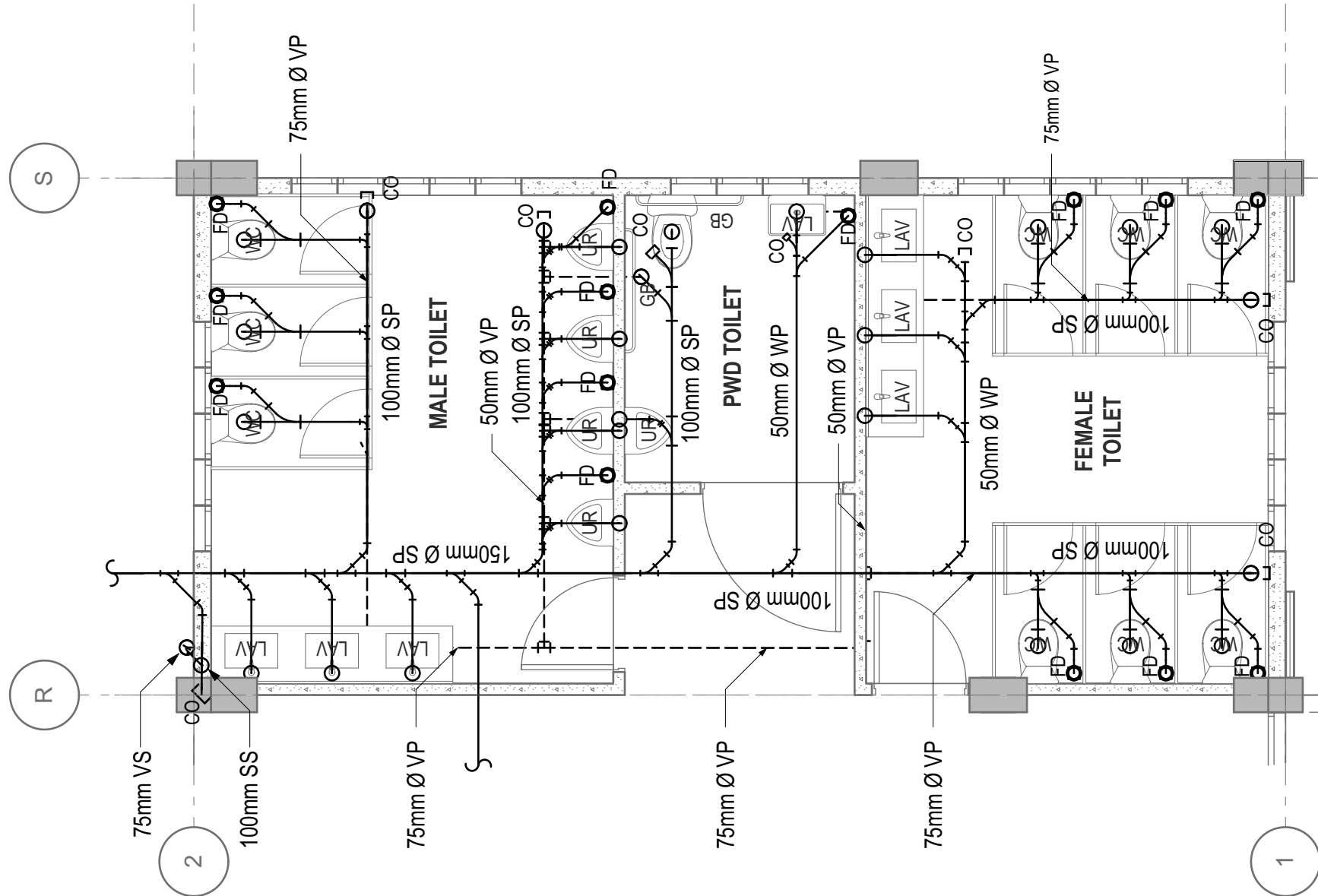
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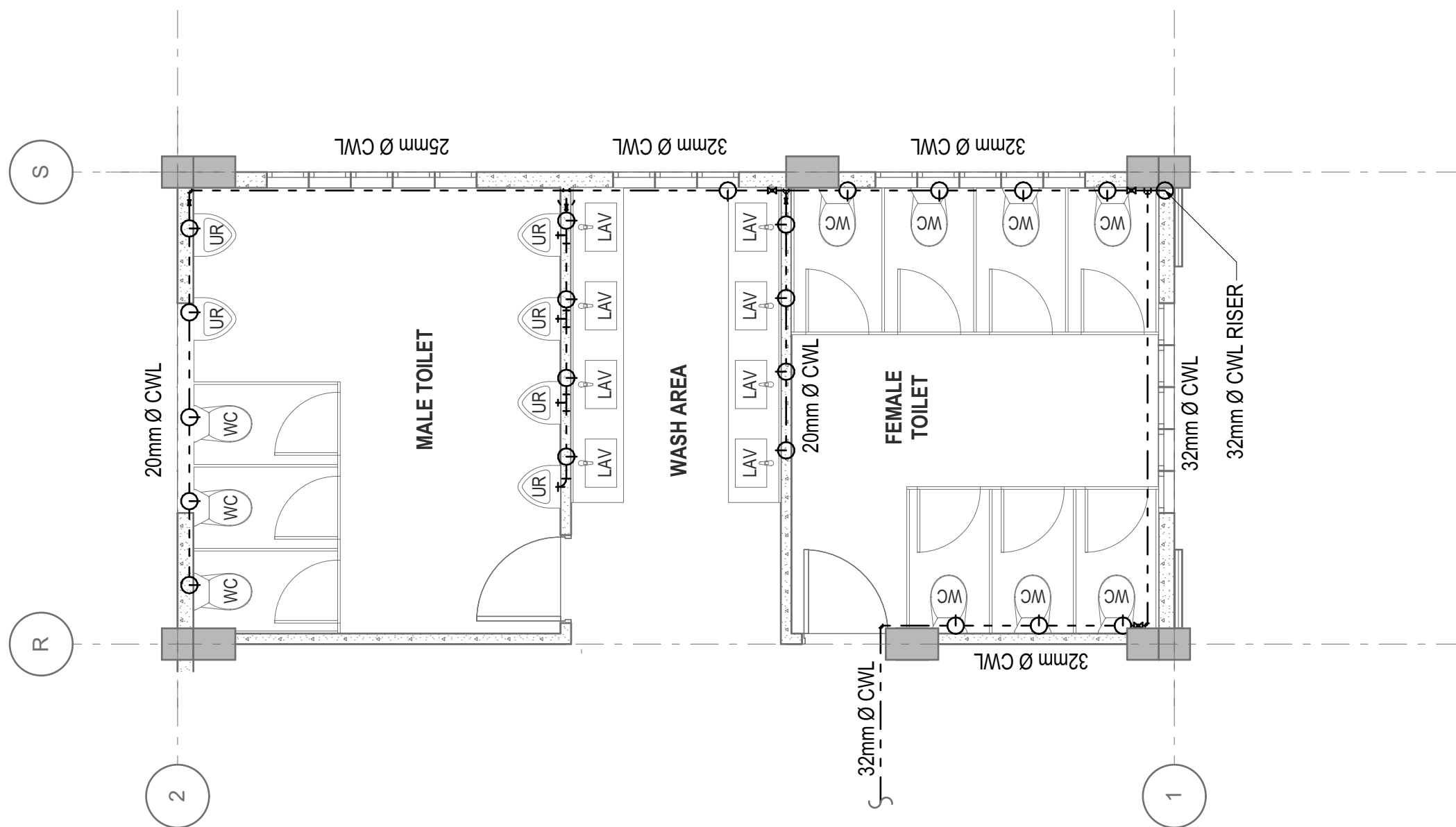
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**P4001**  
ENLARGED SECOND FLOOR SANITARY LAYOUT

SCALE: 1 : 50



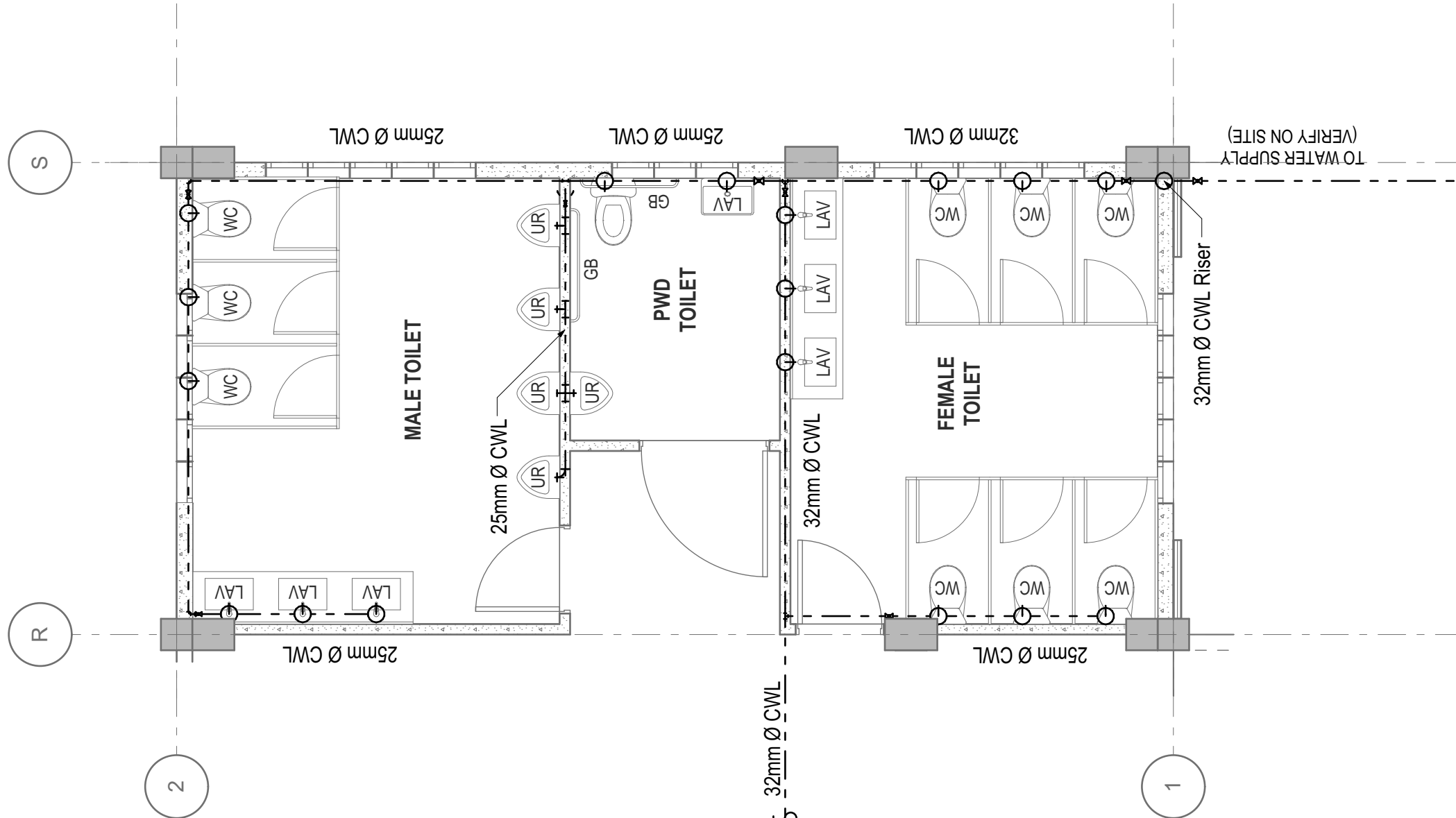
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**P4001**  
ENLARGED GROUND FLOOR SANITARY LAYOUT

SCALE: 1 : 50



**B**  
**P4001**  
ENLARGED SECOND FLOOR WATER SUPPLY LAYOUT

SCALE: 1 : 50



**A**  
**P4001**  
ENLARGED GROUND FLOOR WATER SUPPLY LAYOUT

SCALE: 1 : 50