LEGENDS

	GREY WATER PIPE LINE BLACK WATER PIPE LINE
	RISERS
	GREY MANHOLE
	BLACK MANHOLE
	RAINWATER MANHOLE
	FOG TRAP
CW	COLD WATER PIPE, CPVC, SIZE IN MM
<u> </u>	HOT WATER PIPE, CPVC, SIZE IN
RW	MM RAIN WATER PIPE
RE	REUSE WATER PIPE, CPVC, SIZE IN MM
<u>}-}-}-</u>	160mmø HPDE PIPE ROUTE FOR WATER SUPPLY TRENCH
\sim	150mmø HUME PIPE ROUTE FOR WATER SUPPLY TRENCH
F <u>F</u>	FIRE FIGHTING ,MS PIPE

ABBREVIATIONS:

<u>ADDRETHAT</u>	
GW	GREY WATER
BW	BLACK WATER
RW	RAIN WATER
MH	MANHOLE
CW	COLD WATER
HW	HOT WATER
RØCWn	RISER SIZE COLD WATER NUMBER
RØHWn	RISER SIZE HOT WATER NUMBER
RØRWn	RISER SIZE RAIN WATER NUMBER
RØREn	RISER SIZE REUSE NUMBER
RGWn	RISER GREY WATER NUMBER
RBWn	RISER BLACK WATER NUMBER
FOG TRAP	FREE OIL GREES TRAP
EWT	ELEVATED WATER TANK

r		
ON SECTIONS	<u>ON PLANS</u>	DESCRIPTION
		FLOOR MOUNTED EUROPEAN WATER CLOSET WITH COMMODE SPRAY & CISTERN INLET
	\bigcirc	WASH BASIN
		STAINLESS STEEL KITCHEN SINK, DEEP SINK
		URINAL
		NON RETURN VALVE, PRESSURE GUAGE, PRESSURE PUMP
\bowtie	\bowtie	GATE VALVE
\otimes	\otimes	CPVC BALL VALVE/ GM BALL VALVE
	۲	MUTI TRAP
	-+++-	UNION

NOTE:

1.	ALL WATER SUPPLY PIPES : CPVC SDR 11

2. ALL BLACK & GREY PIPES: PVC

 AVOID 90° BENDS ON SWR PIPES AND USE 2 NOS 45° BENDS

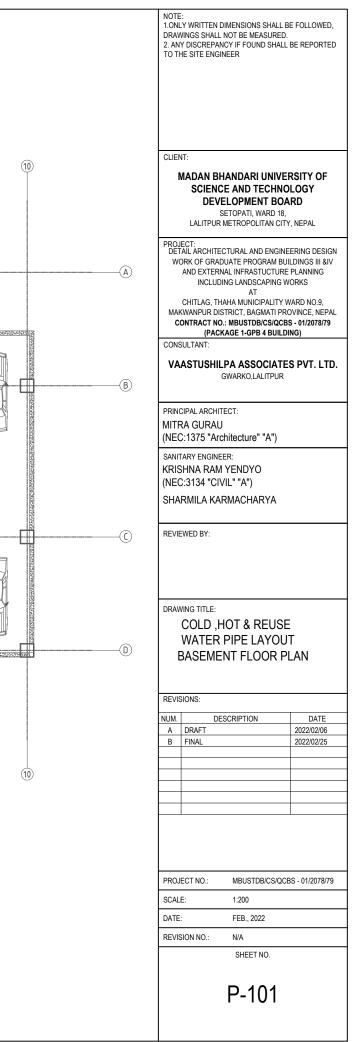
4. HW PIPES ARE THERMAFLEX OR AEROFLEX INSULATED

2. ANY DISCREPANCY IF FOUND SHA TO THE SITE ENGINEER		
CLIENT:		
MADAN BHANDARI UNI		
SCIENCE AND TECH		
SETOPATI, WARD	18,	
LALITPUR METROPOLITAN (CITY, NEPAL	
PROJECT: DETAIL ARCHITECTURAL AND ENGINEERING DESIGN WORK OF GRADUATE PROGRAM BUILDINGS III &/V AND EXTERNAL INFRASTUCTURE PLANNING INCLUDING LANDSCAPING WORKS		
AT CHITLAG, THAHA MUNICIPALIT	Y WARD NO 9	
CHILLAG, ITAATA MUNICIPALI IT WARD NO.9, MAKWANPUR DISTRICT, BAGMATI PROVINCE, NEPAL CONTRACT NO.: MBUSTDB/CS/QCBS - 01/2078/79 (PACKAGE1-GPB 4 BUILDING)		
CONSULTANT:		
VAASTUSHILPA ASSOCIA GWARKO,LALITPU		
SANITARY ENGINEER:		
MITRA GURAU		
(NEC:1375 "Architecture" "A")		
DRAWN BY:		
KRISHNA RAM YENDYO (NEC:3134 "CIVIL" "A")		
SHARMILA KARMACHARYA		
REVIEWED BY:		
DRAWING TITLE:		
DRAWING TITLE: REVISIONS:		
	DATE	
REVISIONS:	DATE	
REVISIONS: NUM. DESCRIPTION	DATE	
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REVISIONS: NUM. DESCRIPTION PROJECT NO.: MBUSTDB/CS/ SCALE: NTS DATE: FEB., 2022 REVISION NO.: N/A		
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REVISIONS: NUM. DESCRIPTION PROJECT NO.: MBUSTDB/CS/ SCALE: NTS DATE: FEB., 2022 REVISION NO.: N/A		



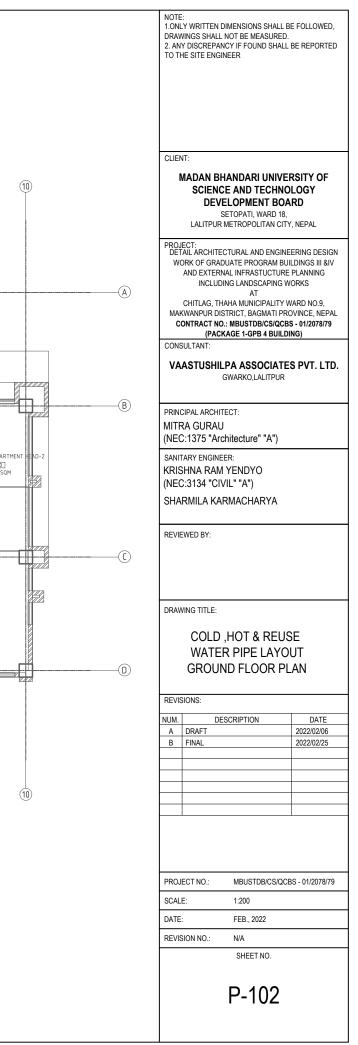
5 AT TERRACE (1) (2) (3) 4 (6) (6') \bigcirc (7')(8) (9) TO COLD WATER TANK AT TERRACE R32ØRE1 R25ØRE2 R32øCW2 FROM ELEVATED/UNDERGROUND 29 RE WATER TANK FROM RAIN WATER R20ØHW3 R25ØHW2 COLLECTIONTANK 32ø RE-> -32ø RE R25ØRE3 R32øCW2 (A)------× R32ØCW3 LOBBY (B)-曲曲 47 ------F ⊞ PARKING 002 31 CARS ()-⊕⊕ FT D 1 2 3 4 5 6 6 $(\overline{)}$ 7 8 9

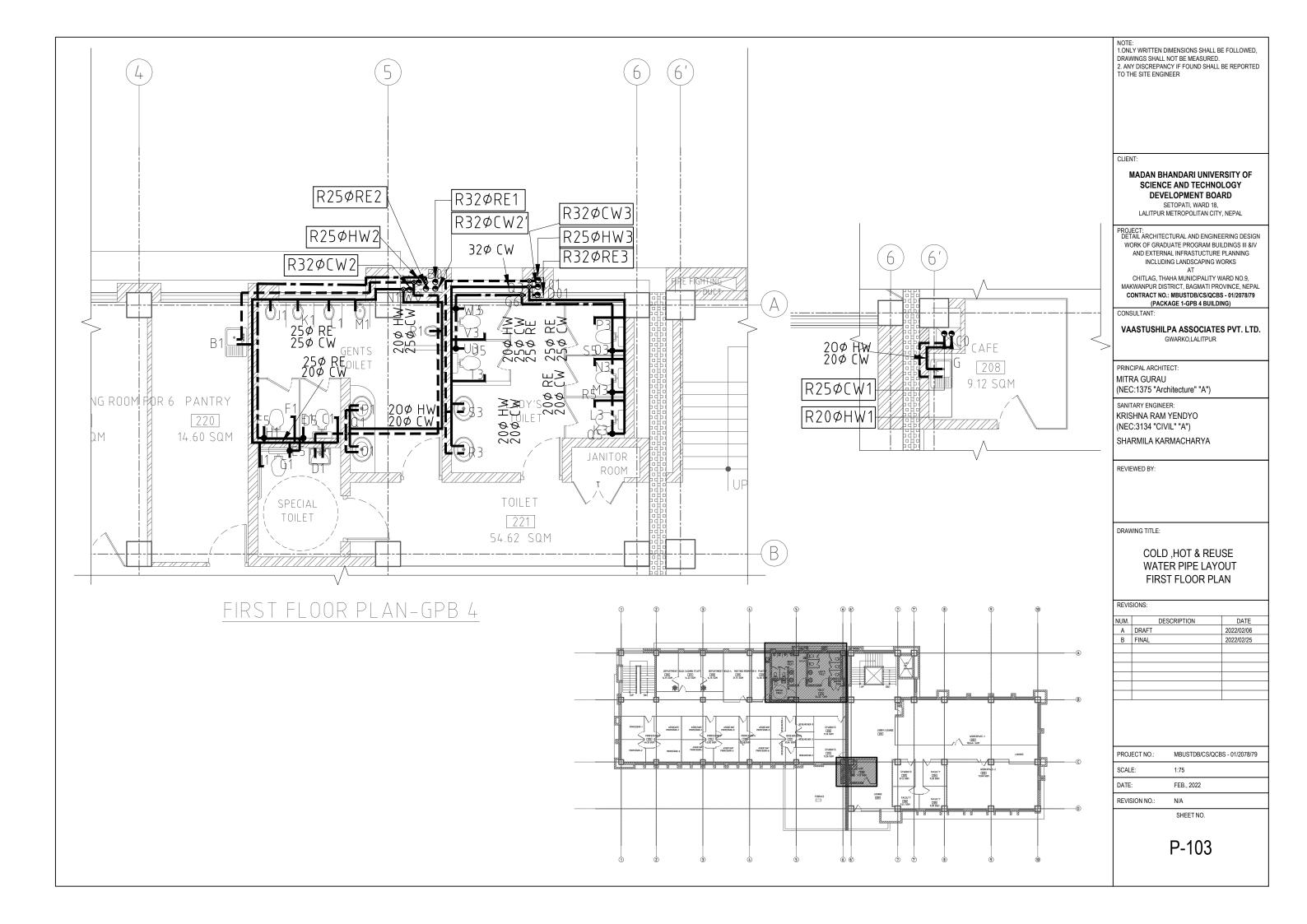
> BASEMENT PLAN-GPB 4 AREA=1005.03 SQ. M

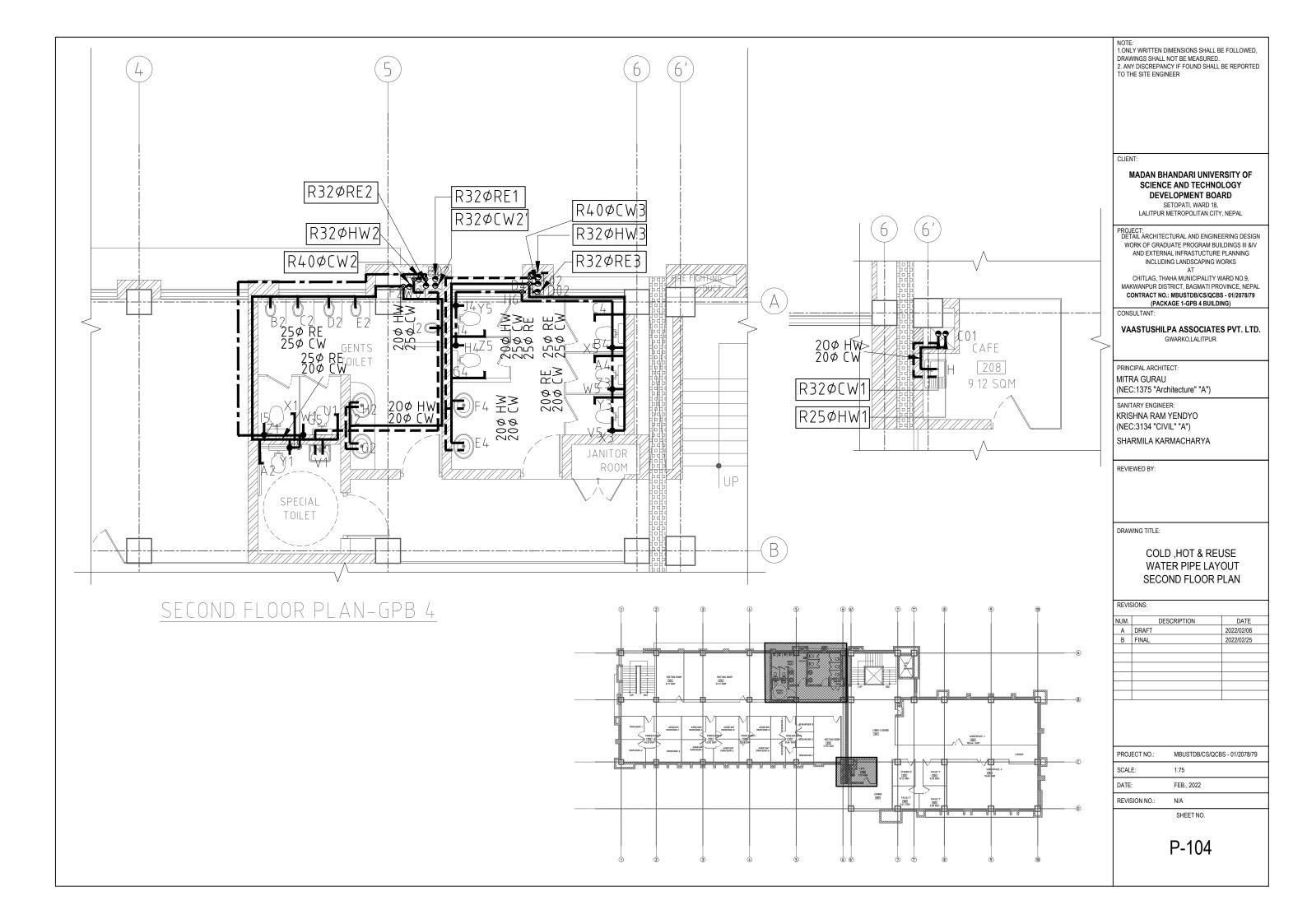


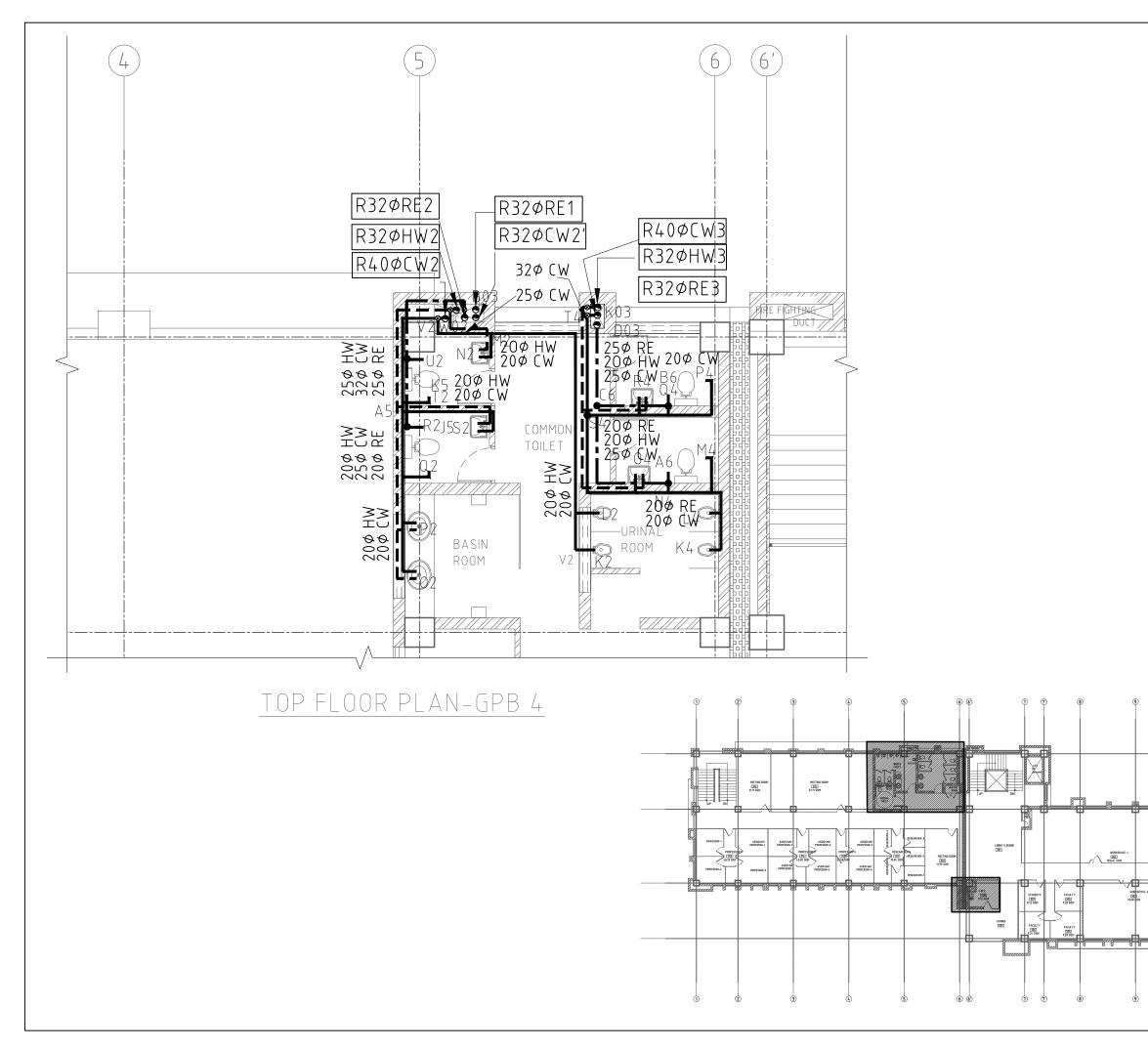
(1) 2 3 4 6 6 (7)7') (8) (9) 5 TO REUSE TANK AT TERRACE TO COLD WATER TANK AT TERRACE R25ØRE2 R32ØRE1 R32¢CW2] - R25¢HW3 32¢ CW R25¢RE3 R32ØCW R25ØHW2 R32¢CW2 (A)-曲 200 HW 20¢ RE 25¢ CW 2000 CUM 16 SEATER CLA 106 34.61 SQM LABORATORY-105 54.15 SQM JANITOR ROOM 60 **7**77 **B**-**1**± T ЦX ELECTRIC ROOM ////// LABORATORY-1 108 51.64 SQM D-1 DEPARTME ×. DEPARTMEN RECEPTI (109) 3.32 SQM 110 13.32 SQM 107 13.35 SQN MAIN ENTRY LOBBY LABORATOR LABORATORY-2 MEETING RC ø 104 51.04 SQM 103 59.51 SQM 102 17.93 SQM ADMIN STAFF <u>111</u> 15.04 SQM e 20¢ HW 25¢ CW 20ø HW 25ø CW 20ø HW 25ø CW 20ø HW 25ø CW 20ø HW 25ø CW <u>(</u>)-R25¢CW1 R20øHW1 REGISTRY 106 111.22 SQM (D)-e e e e e e XIIIIA (5) 2 (4)6 6 (7)7 (8) (9)

> GROUND FLOOR PLAN-GPB 4 AREA=834.15 SQ. M

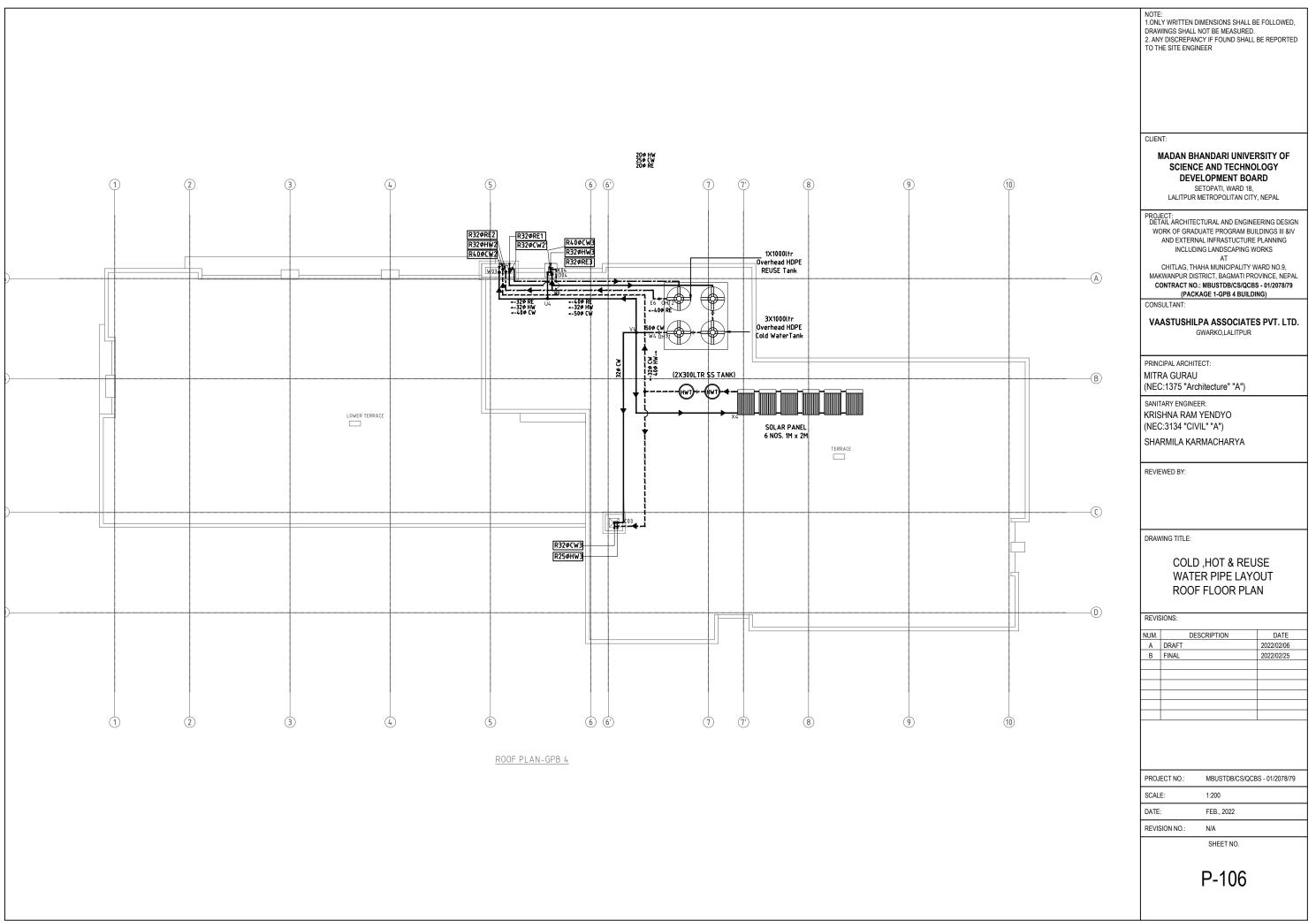


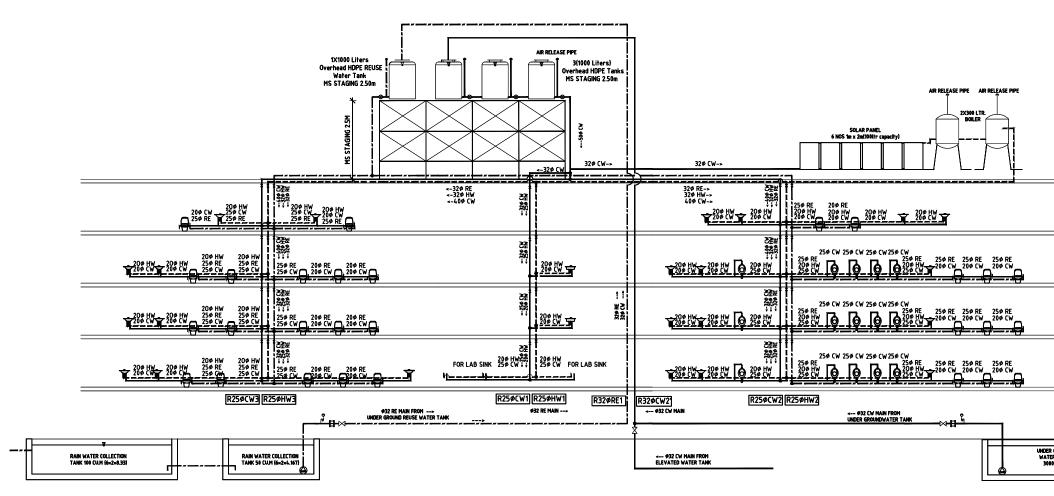






	DRAV 2. AN	Y WRITTEN D VINGS SHALL	IMENSIONS SH NOT BE MEASU CY IF FOUND S NEER	IRED.	
	01.17	IT.			
	CLIEN	MADAN BH SCIENC DEVI	IANDARI UN E AND TEC ELOPMENT EETOPATI, WAR METROPOLITAN	HNOLOG BOARD D 18,	GY
		AIL ARCHITE ORK OF GRAD AND EXTERN	CTURAL AND EN UATE PROGRA IAL INFRASTUC NG LANDSCAPI AT	M BUILDIN TURE PLAI	GS III &IV NNING
	C	(WANPUR DIS ONTRACT NO	AHA MUNICIPAI Strict, Bagma .: Mbustdb/CS (Age 1-gpb 4 e	TI PROVINO (QCBS - 01	CE, NEPAL
		ASTUSHIL	PA ASSOCI GWARKO,LALITI		VT. LTD.
	MITF	CIPAL ARCHIT RA GURAU C:1375 "Arc		")	
	KRIS	TARY ENGINE SHNA RAM S:3134 "CIN	YENDYO		
	SHA	RMILA KAI	RMACHARY	A	
	REVIE	EWED BY:			
	DRAW	VING TITLE:			
		WATE) ,HOT & F Er Pipe L Floor Pl	AYOU	
10	REVIS	SIONS:			
	NUM.	DE	SCRIPTION		DATE
	A B	DRAFT FINAL			22/02/06
@				202	
®					
L60395	PROJ	ECT NO.:	MBUSTDB/C	S/QCBS - 0	1/2078/79
	SCAL	E:	1:75		
33	DATE	:	FEB., 2022		
	REVIS	SION NO.:	N/A		
			SHEET NO.		
®			P-10	5	

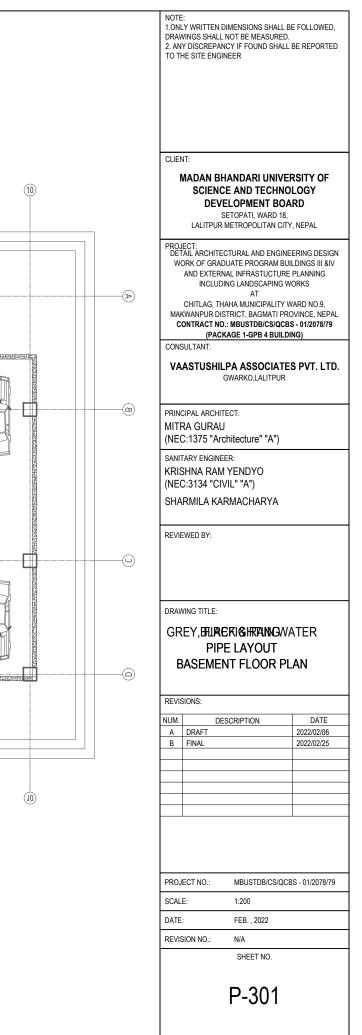


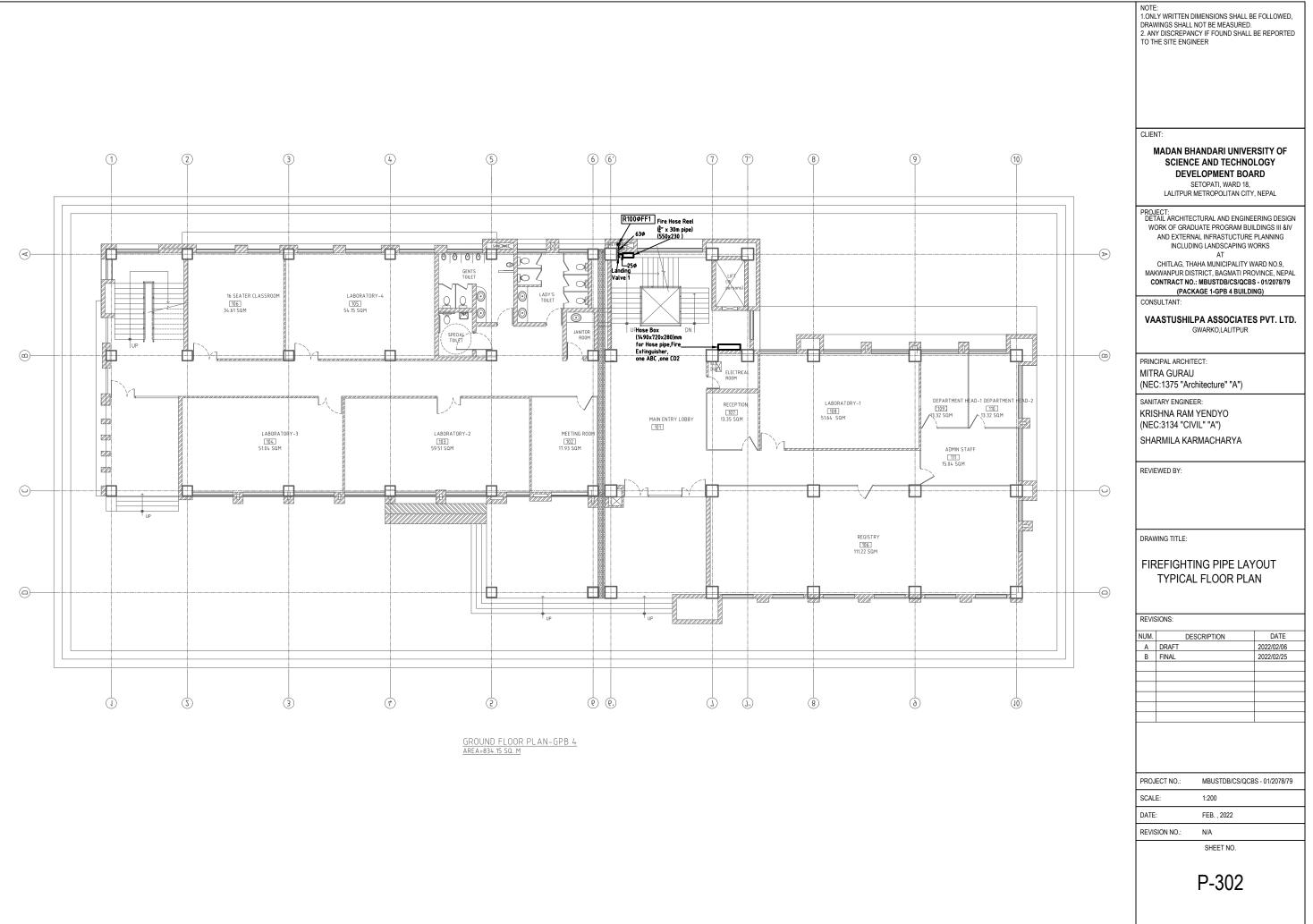


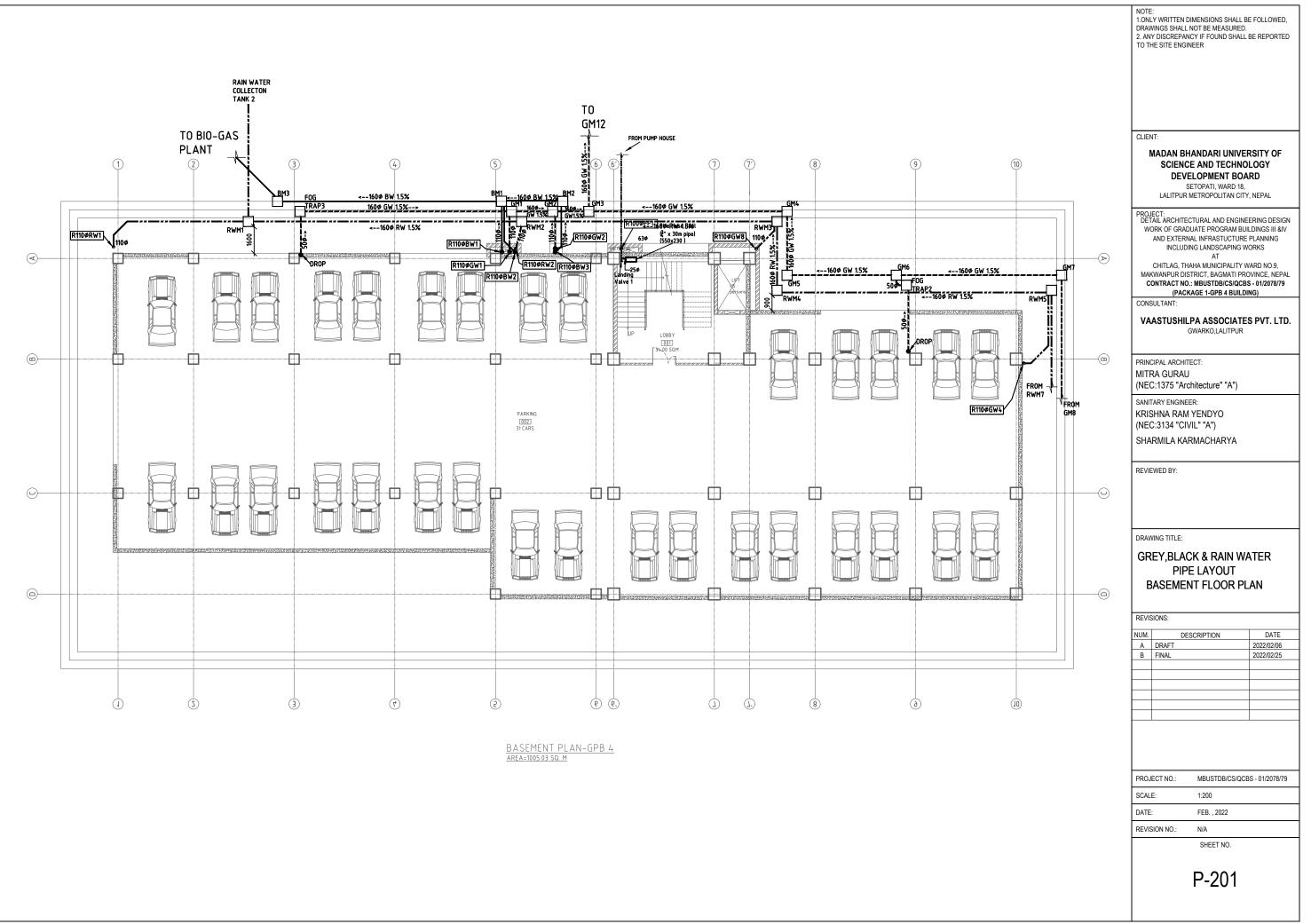
	DRAV 2. AN	Y WRITTEN DIMENSIONS SHALL B Y WRITS SHALL NOT BE MEASURED. Y DISCREPANCY IF FOUND SHALL HE SITE ENGINEER	
	PROJ DET WC	MADAN BHANDARI UNIVE SCIENCE AND TECHNO DEVELOPMENT BOA SETOPATI, WARD 18, LALITPUR METROPOLITAN CITY	LOGY RD ', NEPAL ERING DESIGN LDINGS III &IV PLANNING ORKS VARD NO.9, DVINCE, NEPAL S - 01/2078/79
		BULTANT: ASTUSHILPA ASSOCIATE GWARKO,LALITPUR	S PVT. LTD.
	MITF (NEC	CIPAL ARCHITECT: RA GURAU C:1375 "Architecture" "A") rary engineer:	
	KRIS (NEC	SHNA RAM YENDYO C:3134 "CIVIL" "A") RMILA KARMACHARYA	
	REVIE	EWED BY:	
GROUND R TANK	DRAW	VING TITLE: ISOMETRIC SECTI COLD ,HOT & REU WATER PIPE LAY(SE
OOLTR	DEV/IC	SIONS:	
J			
	NUM. A	DESCRIPTION	DATE 2022/02/06
	B	FINAL	2022/02/25
	PROJ	ECT NO.: MBUSTDB/CS/QCE	3S - 01/2078/79
	SCAL	E: NTS	
	DATE	: FEB., 2022	
	REVIS	SION NO.: N/A	
		SHEET NO.	
		P-107	
	I I		

FROM PUMP HOUSE 1 4 5 2 3 \bigcirc 7) 9 6 6 8 R100ØFF1 63Ø (‡" x 30m pipe) (550x230) < ***** ≝ Landing Valve 1 2010/04/24 242 2518/04/27 LOBBY 001 34.00 SQN <u>_</u> PARKING 002 31 CARS 0 ------Π \square - ----++-0 (1)(† (e) (e) (Ţ') (2) 3 $(\mathbf{2})$ (\mathbf{j}) 8 9

> BASEMENT PLAN-GPB 4 AREA=1005.03 SQ. M

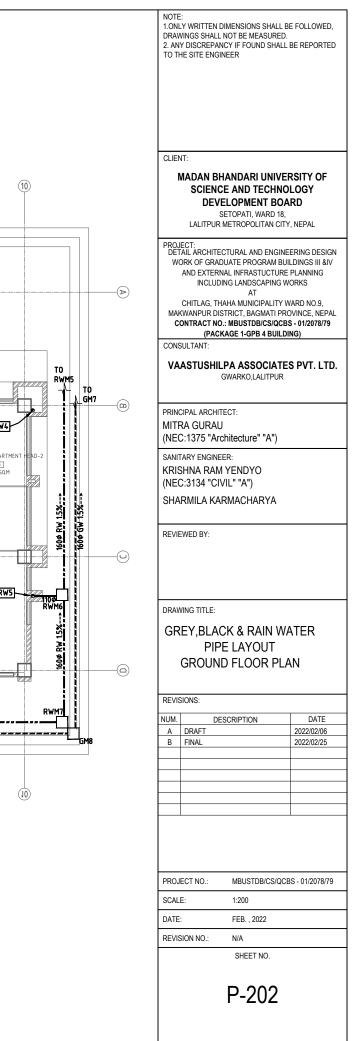


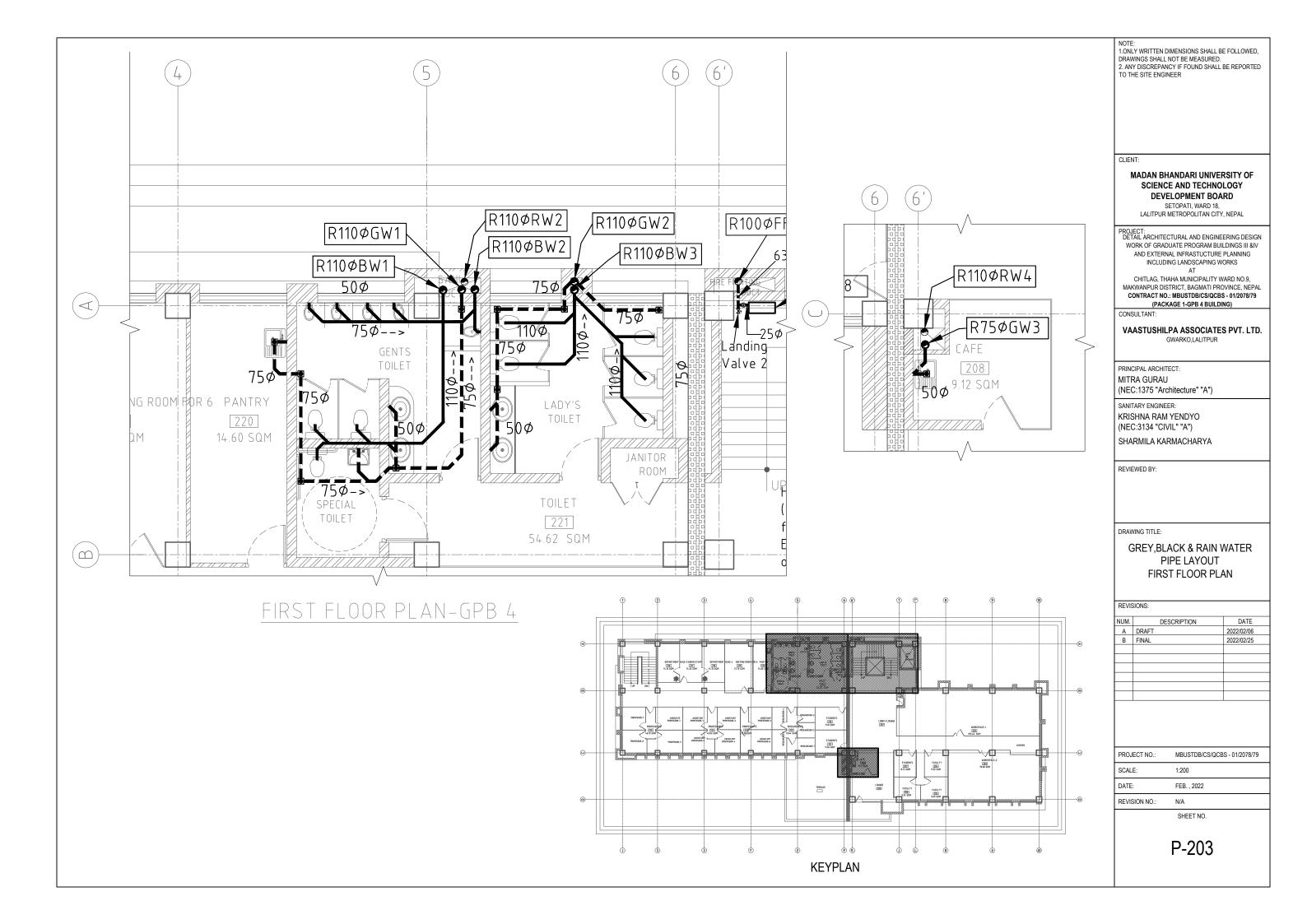


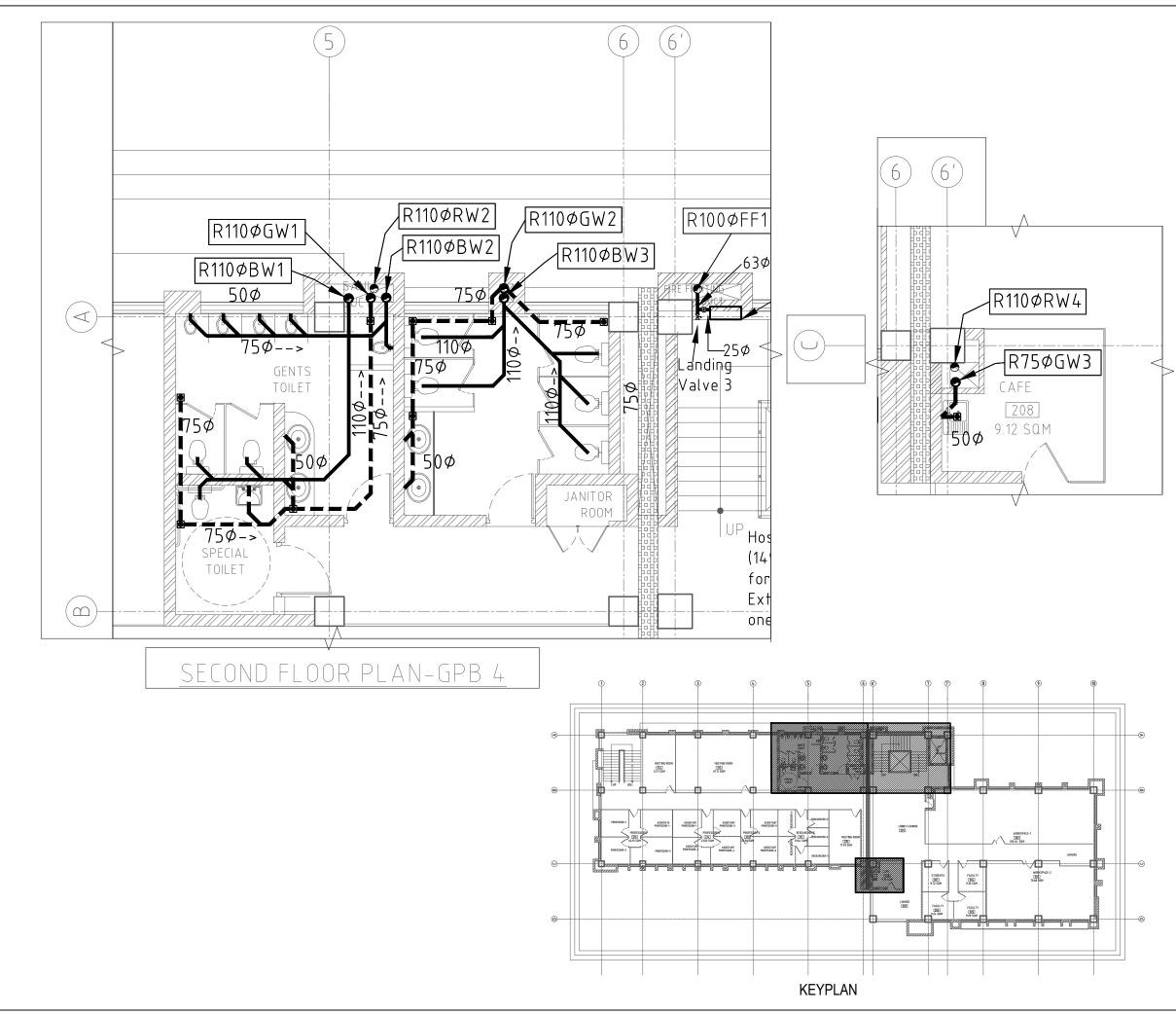


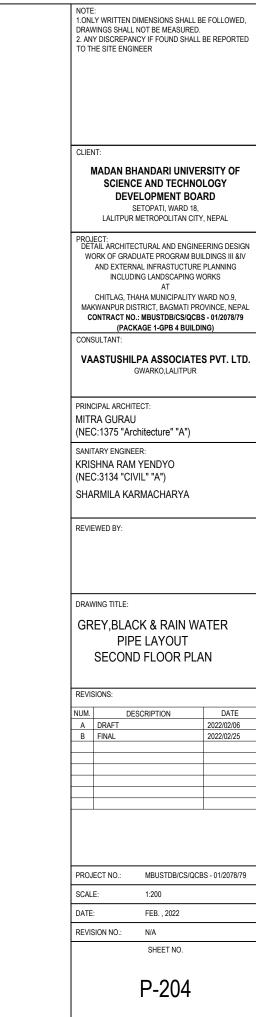
1 3 4 (9) 2 (5) 6 6 \bigcirc 7) 8 R100ØFF1 Fire Hose Reel (‡" x 30m pipe) (550x230) R110ØRW2 R110øGW2 R110ØRW1 R110øGW1 R110ØBW2 R110øBW3 R110øGW3 R110ØBW1 DRO 50Ø < 16 SEATER CLASSROO LABORATORY-4 106 34.61 SQM 105 54.15 SQM 0ø UFHose Box (1490x720x280)mm ROOI 11111 for Hose pipe,Fire_ Extinguisher, one ABC ,one CO2 DROP----1 50ø R110ØGW4 LABORATORY-1 DEPARTMEN' -1 DEPARTM RECEPTION (1091) 3.32 SQM 110 13.32 SQM 107 13.35 SQM 108 51.64 SQM MAIN ENTRY LOBBY æ LABORATORY-LABORATORY-2 MEETING RO 100 102 17.93 SQM 103 59.51 SQM 104 51.04 SQM ADMIN STAFF 1 <u>111</u> 15.04 SQM R110ØRW7 R110RW8 R75ØGW3 0 É R110ØRW9 R110ØRW5-REGISTRY 106 111.22 SQM RWM10 RWM11 160¢ RW 1.5%--> R110ØRW6 1600 RW 1.5%-160ø 0-GW 1.5%---Contraction in the second s RWM9 160ø RW 1.5%--160ø RW 1.5%-160Ø RW 1.5%-RWM8 160¢ GW 1.5%--> GM9 160¢ GW 1.5%--> GM10 (2)(1)3 († (e) (e) (J.) 8 2 0

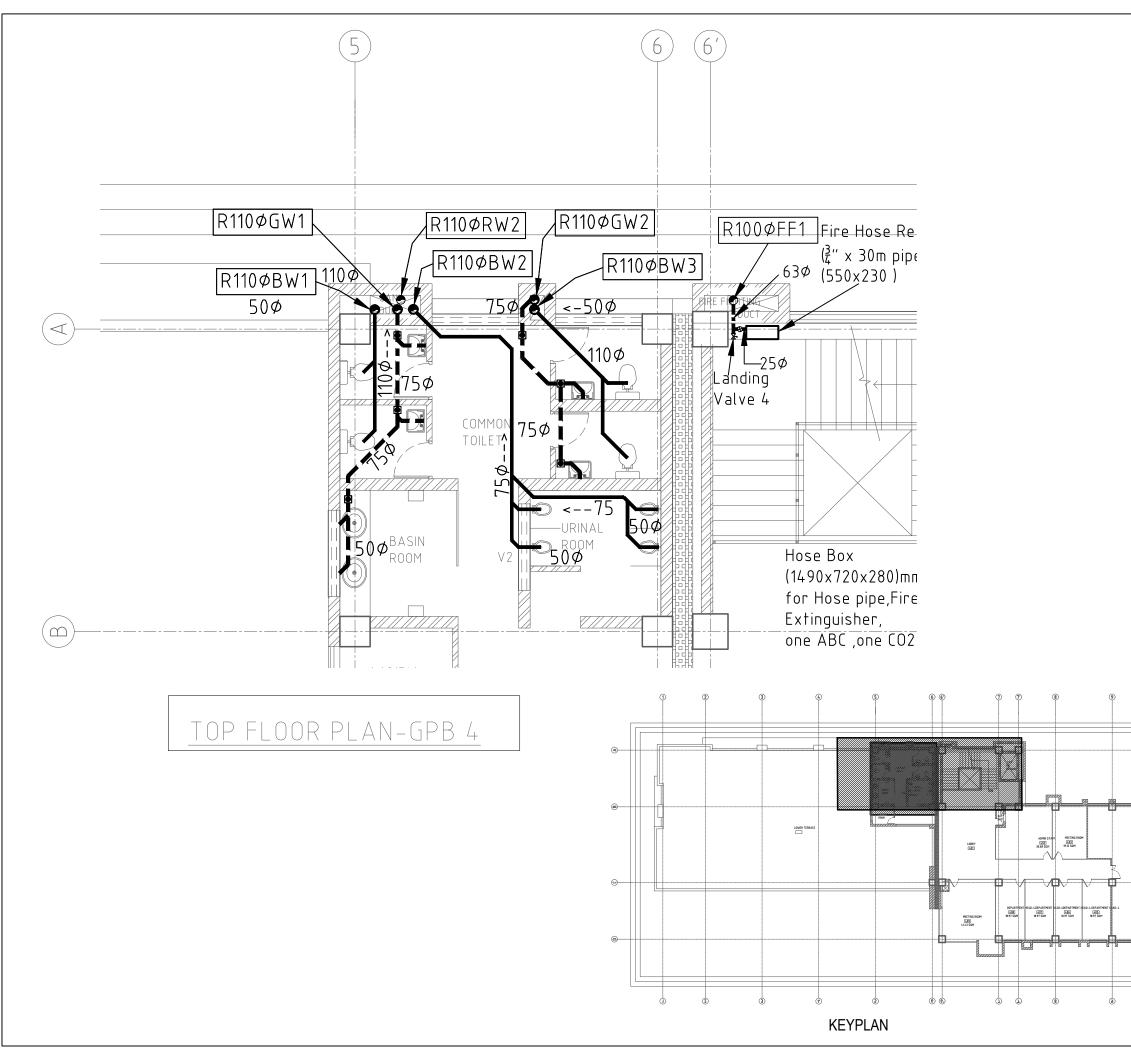
> GROUND FLOOR PLAN-GPB 4 AREA=834.15 SQ. M



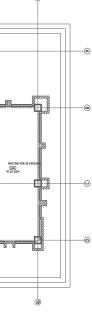


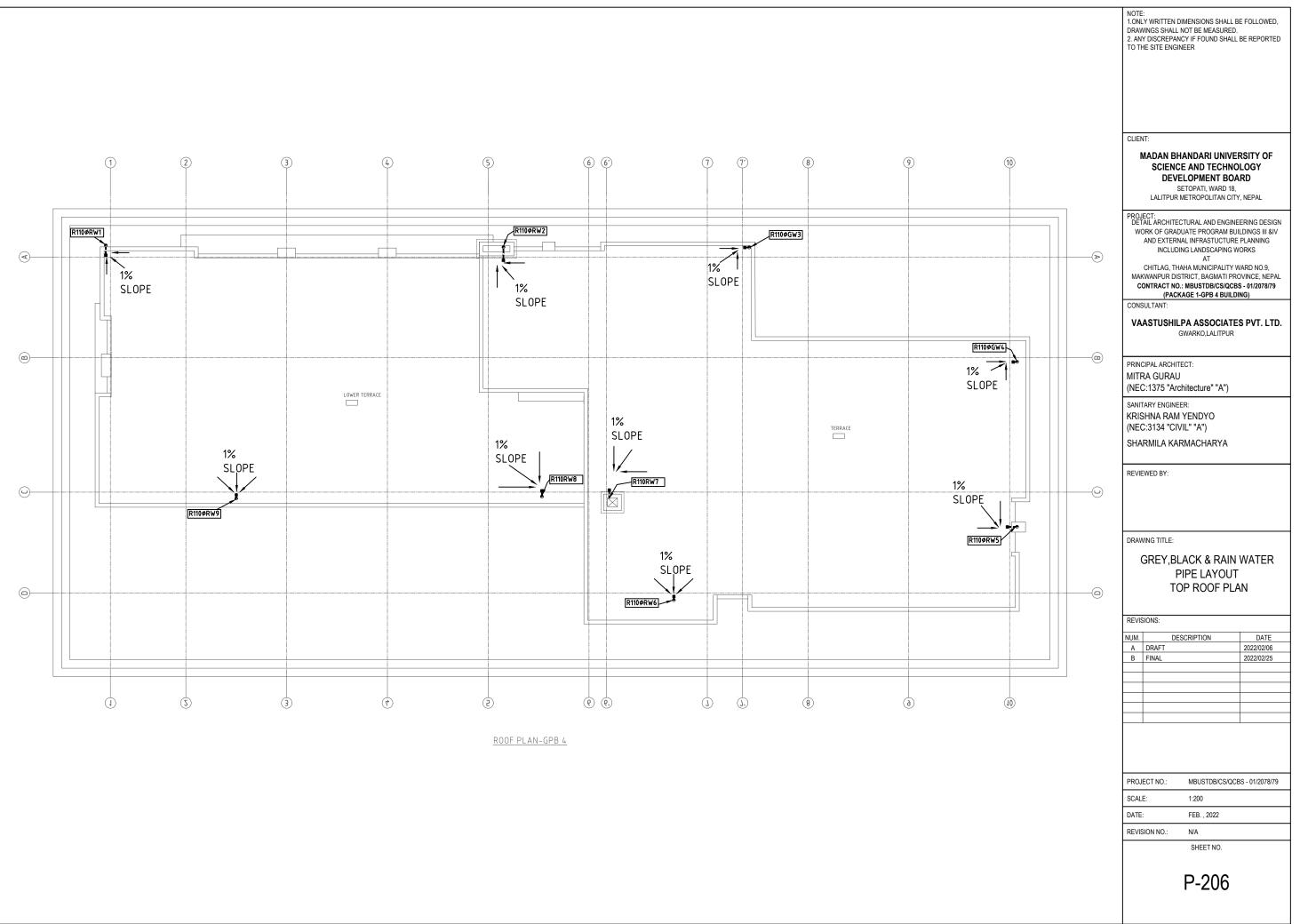


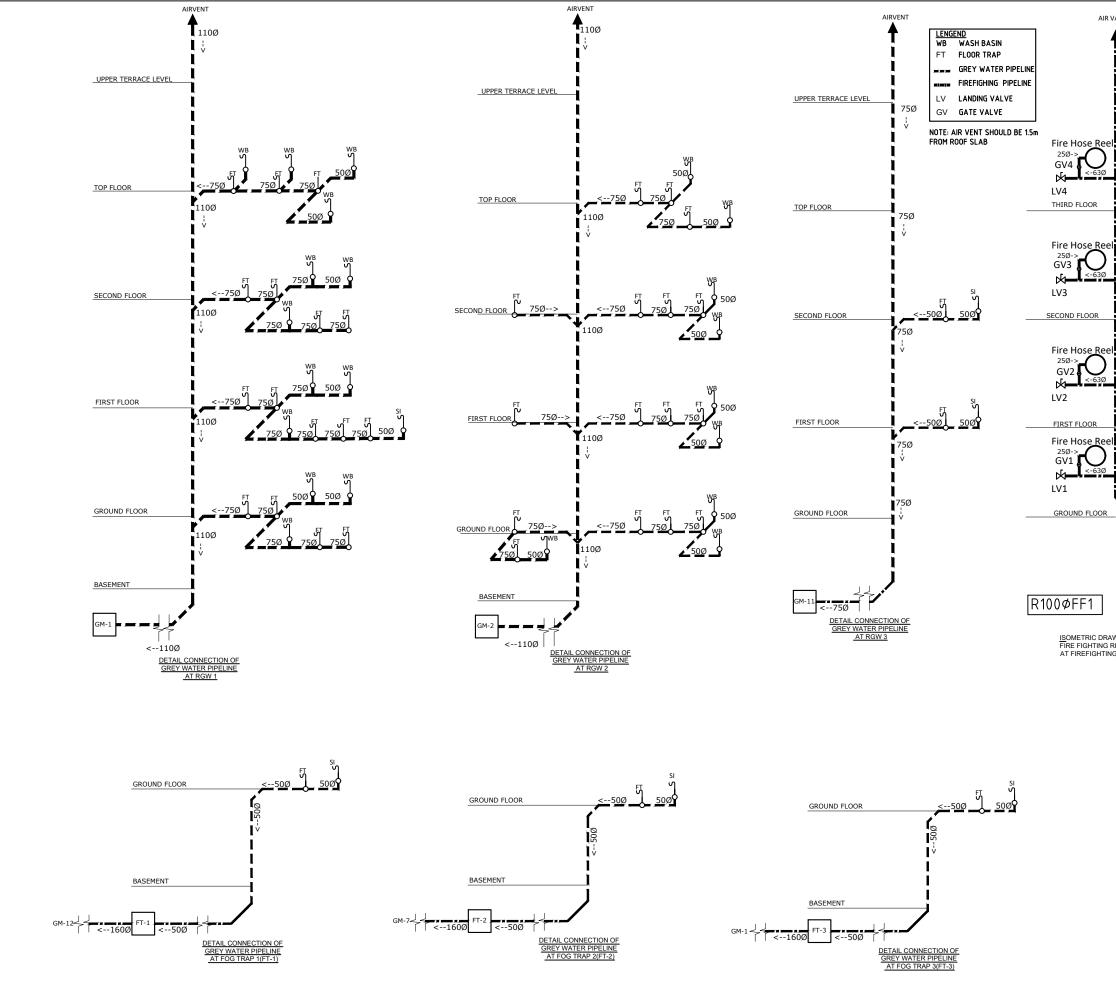




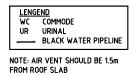
NOTE: 1.ONLY WRITTEN DIMENSIONS SHALL B DRAWINGS SHALL NOT BE MEASURED.			
2. ANY DISCREPANCY IF FOUND SHALL TO THE SITE ENGINEER	BE REPORTED		
CLIENT:			
MADAN BHANDARI UNIVE SCIENCE AND TECHNO			
DEVELOPMENT BOA SETOPATI, WARD 18,	RD		
LALITPUR METROPOLITAN CITY	(, NEPAL		
PROJECT: DETAIL ARCHITECTURAL AND ENGINEERING DESIGN WORK OF GRADUATE PROGRAM BUILDINGS III &IV AND EXTERNAL INFRASTUCTURE PLANNING INCLUDING LANDSCAPING WORKS			
AT CHITLAG, THAHA MUNICIPALITY W			
MAKWANPUR DISTRICT, BAGMATI PRO CONTRACT NO.: MBUSTDB/CS/QCB (PACKAGE 1-GPB 4 BUILDI	S - 01/2078/79		
(PACKAGE 1-GPB 4 BUILDI CONSULTANT:	(0111		
VAASTUSHILPA ASSOCIATE GWARKO,LALITPUR	S PVT. LTD.		
PRINCIPAL ARCHITECT:			
MITRA GURAU (NEC:1375 "Architecture" "A")			
SANITARY ENGINEER:			
KRISHNA RAM YENDYO (NEC:3134 "CIVIL" "A")			
SHARMILA KARMACHARYA	, , , , , , , , , , , , , , , , , , ,		
REVIEWED BY:			
GREY,BLACK & RAIN	WATER		
TOP FOOR PLA	N		
REVISIONS:			
NUM. DESCRIPTION	DATE 2022/02/06		
B FINAL	2022/02/25		
PROJECT NO.: MBUSTDB/CS/QCE	3S - 01/2078/79		
SCALE: 1:200			
DATE: FEB. , 2022			
REVISION NO.: N/A			
SHEET NO.			
P-205			

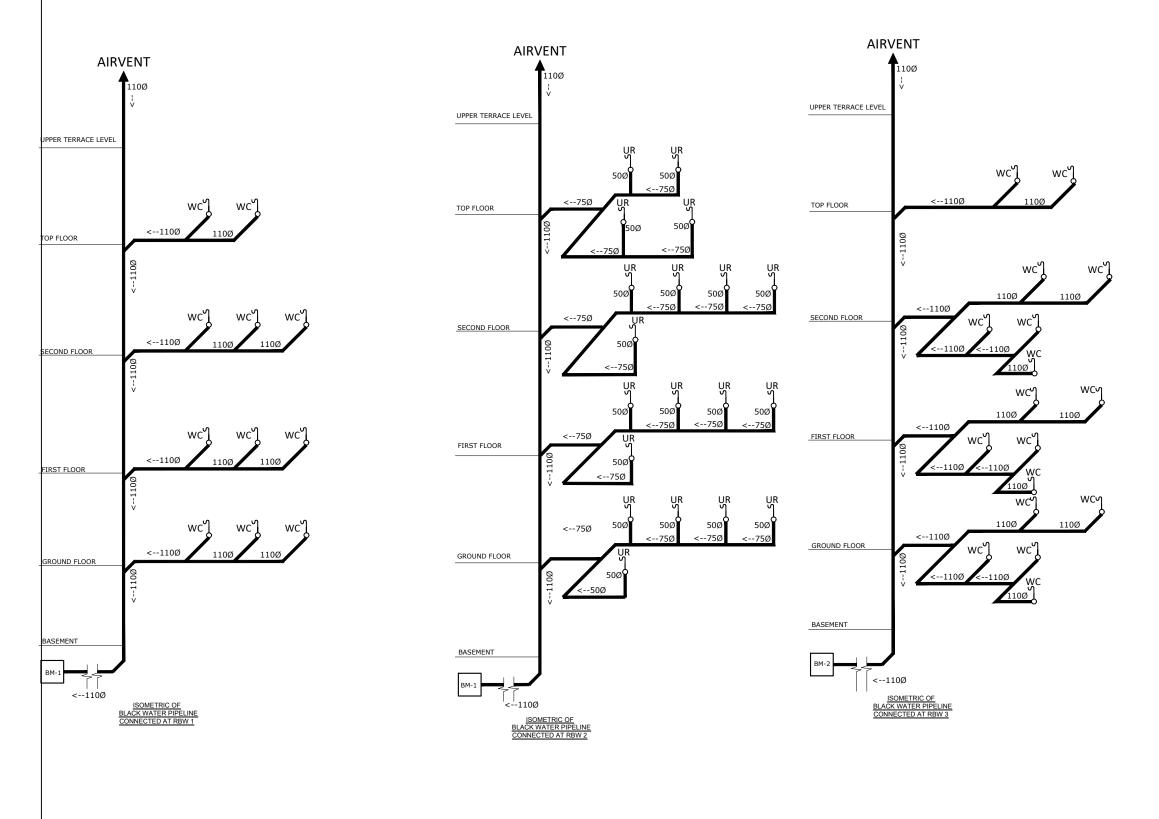






NOTE: 1.ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED, DRAWINGS SHALL NOT BE MEASURED. 2. ANY DISCREPANCY IF FOUND SHALL BE REPORTED TO THE SITE ENGINEER
CLIENT: MADAN BHANDARI UNIVERSITY OF SCIENCE AND TECHNOLOGY DEVELOPMENT BOARD SETOPATI, WARD 18,
LALITPUR METROPOLITAN CITY, NEPAL PROJECT: DETAIL ARCHITECTURAL AND ENGINEERING DESIGN WORK OF GRADUATE PROGRAM BUILDINGS III &IV AND EXTERNAL INFRASTUCTURE PLANNING INCLUDING LANDSCAPING WORKS AT CHITLAG, THAHA MUNICIPALITY WARD NO.9, MAKWANPUR DISTRICT, BAGMATI PROVINCE, NEPAL
CONTRACT NO.: MBUSTDB/CS/QCBS - 01/2078/79 (PACKAGE 1-GPB 4 BUILDING) CONSULTANT: VAASTUSHILPA ASSOCIATES PVT. LTD. GWARKO,LALITPUR
PRINCIPAL ARCHITECT: MITRA GURAU (NEC:1375 "Architecture" "A") SANITARY ENGINEER: KRISHNA RAM YENDYO (NEC:3134 "CIVIL" "A")
SHARMILA KARMACHARYA
DRAWING TITLE: ISOMETRIC SECTION OF GREY WATER PIPE LAYOUT
REVISIONS: NUM. DESCRIPTION DATE
NUM. DESCRIPTION DATE A DRAFT 2022/02/06 B FINAL 2022/02/25
PROJECT NO.: MBUSTDB/CS/QCBS - 01/2078/79
SCALE: 1:200 DATE: FEB., 2022
REVISION NO.: N/A
SHEET NO. P-207





NOTE: 1.0NLY WRITTEN DIMENSIONS SHALL BE FOLLOWED, DRAWINGS SHALL NOT BE MEASURED. 2. ANY DISCREPANCY IF FOUND SHALL BE REPORTED TO THE SITE ENGINEER				
CLIENT: MADAN BHANDARI UNIVERSITY OF SCIENCE AND TECHNOLOGY DEVELOPMENT BOARD SETOPATI, WARD 18, LALITPUR METROPOLITAN CITY, NEPAL				
PROJECT: DETAIL ARCHITECTURAL AND ENGINEERING DESIGN WORK OF GRADUATE PROGRAM BUILDINGS III &IV AND EXTERNAL INFRASTUCTURE PLANNING INCLUDING LANDSCAPING WORKS AT CHITLAG, THAHA MUNICIPALITY WARD NO.9, MAKWANPUR DISTRICT, BAGMATI PROVINCE, NEPAL CONTRACT NO.: MBUSTDB/CS/QCBS - 01/2078/79 (PACKAGE 1-GPB 4 BUILDING)				
CONSULTANT:				
VAASTUSHILPA ASSOCIATE GWARKO,LALITPUR	S PVT. LTD.			
PRINCIPAL ARCHITECT: MITRA GURAU (NEC:1375 "Architecture" "A")				
SANITARY ENGINEER: KRISHNA RAM YENDYO (NEC:3134 "CIVIL" "A")				
SHARMILA KARMACHARYA				
REVIEWED BY:				
DRAWING TITLE:				
ISOMETRIC SECTION OF BLACK WATER PIPE LAYOUT				
REVISIONS:				
NUM. DESCRIPTION	DATE			
A DRAFT	2022/02/06			
B FINAL	2022/02/25			
	<u> </u>]			
PROJECT NO.: MBUSTDB/CS/QCBS - 01/2078/79				
SCALE: 1:200				
DATE: FEB. , 2022				
REVISION NO.: N/A				
внеет NO. Р-208				