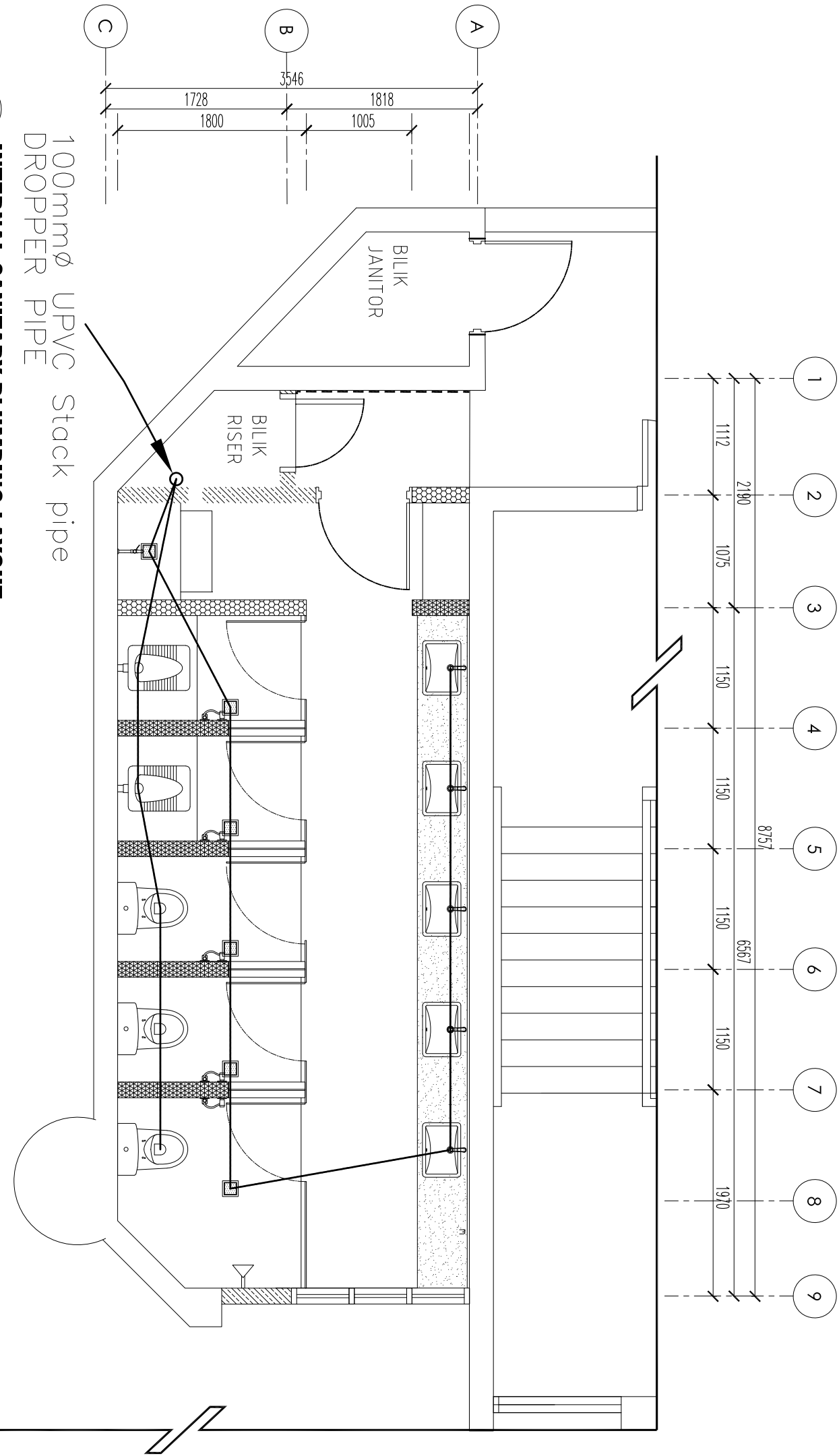


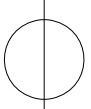
NOTES FOR SANITARY PIPING SIZE

NOTES & LEGEND:

DESCRIPTION	PIPE SIZE	
BASIN	32mmø mUPVC	B -BASIN
FLOOR TRAP	80mmø UPVC	S -SINK
WATER CLOSET	100mmø UPVC	FT -FLOOR TRAP
GULLY TRAP TO MANHOLE	100mmø UPVC	U -URINAL
MANHOLE TO MANHOLE	150mmø VCP	WC -WATER CLOSET
		UPVC -UNPLASTICIZED POLYVINYL CHLORIDE
		GT -GULLY TRAP
		GL -GROUND LEVEL
		IL -INVERT LEVEL
		D -DEPTH OF MANHOLE
		MUPVC -MODIFIED UNPLASTICIZED PVC PIPE
		VCP -VITRIFIED CLAY PIPE
		WDT -WASTE DRAIN TRAP
		MH -MANHOLE
		MUPVC ASP -MODIFIED UNPLASTICIZED PVC PIPE
		ANTI SYPHONAGE PIPE



INTERNAL SANITARY PLUMBING LAYOUT



ARAS 2 & 3 - TANDAS STAF (P)

SCALE 1 : 50

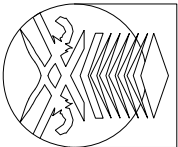
LUKISAN DOKUMENTASI

PERINGATAN

HANYA DIMENSI BERANGKA SAHAJA DILAKSANAKAN,
KONTRAKTOR MESTI MEMERIKSA SEMUA DIMENSI SEBENAR DI
TAPAK BINA. SEBARANG PERCANGKAHAN MESTI DILAPORKAN
DENGAN SENERGA KEPADA PEGAWAI PENGUJASA SEBELUM
KERJA-KERJA DIMULAKAN.

PROJEK:

CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KRKS), UTM SHAH ALAM.



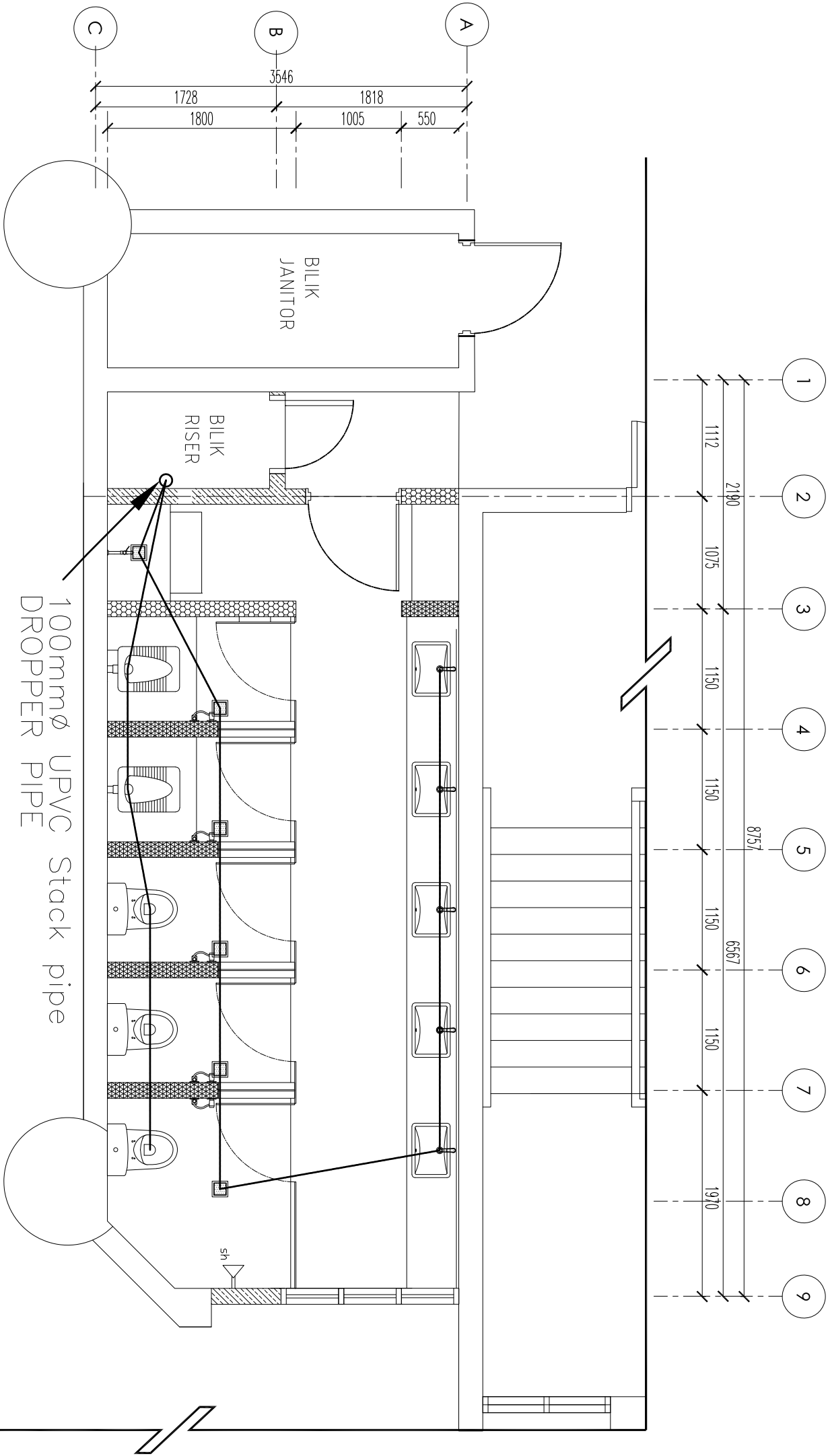
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TEKNOLOGI
MARA

NO. RUJUKAN PROJEK:	TARIKH:	NAB CANSELOR	INDEXS PINDAAN
200-PP11(BP1.5/3/25) MECH-SP	20 09 24 SEP	TIMBALAN NAB CANSELOR	
TAJUK LUKISAN:	SKALA:	PENGARAH JABATAN PEMBANGUNAN & INFRASTRUKTUR	
PELAN LANTAI BAHARU TIPIKAL ARAS 2&3 - TANDAS STAF (P)	1:50	KETUA BAHAGIAN PEMBANGUNAN INFRA. : IR. TS. AZMAN SAUBIRAN	
		ARKITEK : ZULFADU MOHAMED SALLEH	
		DILUKIS OLEH : MAZIAN SAAD	
		PENGURUS PROJEK / DIESEMAK : MUHAMMAD ASYRAF ABD. AZIZ	
			NO HELAIAN: 01

NOTES FOR SANITARY PIPING SIZE

NOTES & LEGEND:

DESCRIPTION	PIPE SIZE	
BASIN	32mmø mUPVC	B -BASIN
FLOOR TRAP	80mmø UPVC	S -SINK
WATER CLOSET	100mmø UPVC	FT -FLOOR TRAP
GULLY TRAP TO MANHOLE	100mmø UPVC	U -URINAL
MANHOLE TO MANHOLE	150mmø VCP	WC -WATER CLOSET
		UPVC -UNPLASTICIZED POLYVINYL CHLORIDE
		GT -GULLY TRAP
		GL -GROUND LEVEL
		IL -INVERT LEVEL
		D -DEPTH OF MANHOLE
		MUPVC -MODIFIED UNPLASTICIZED PVC PIPE
		VCP -VITRIFIED CLAY PIPE
		WDT -WASTE DRAIN TRAP
		MH -MANHOLE
		MUPVC ASP -MODIFIED UNPLASTICIZED PVC PIPE
		ANTI SYPHONAGE PIPE



INTERNAL SANITARY PLUMBING LAYOUT



ARAS 4 & 5 - TANDAS STAF (P)

SCALE 1 : 50

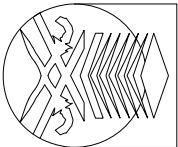
LUKISAN DOKUMENTASI

PERINGATAN

HANYA DIMENSI BERANGKA SAHAJA DILAKSANAKAN, KONTRAKTOR MESTI MEMERIKSA SEMUA DIMENSI SEBENAR DI TAPAK BINA. SEBARANG PERCANGGAHAN MESTI DILAPORKAN DENGAN SEGERA KEPADA PEGAWAI PENGUJASA SEBELUM KERJA-KERJA DIMULAKAN.

PROJEK:

CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI KREATIF (KRKS), UTM SHAH ALAM.



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NO. RUJUKAN PROJEK:	TARIKH:	NAB CANSELOR	INDEXS PINDAAN
200-PP11(BP1.5/3/25) MECH-SP	20 09 24 SEP	TIMBALAN NAB CANSELOR	
TAJUK LUKISAN:	SKALA:	PENGARAH LABATAN PEMBANGUNAN & INFRASTRUKTUR	
PELAN LANTAI BAHARU TIPIKAL ARAS 4&5 - TANDAS STAF (P)	1:50	KETUA BAHAGIAN PEMBANGUNAN INFRA: IR. TS. AZMAN SAUBIRAN	
		ARKITEK	
		DILUKIS OLEH	
		PENGURUS PROJEK / DISEMAK	
			NO HELAIAN: 02

PROJEK:

CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI KREATIF (KPSK), UTM SHAH ALAM.



NO. RUJUKAN PROJEK:

200-PP11(BP1.5/3/25) MECH-SP

TAARIKH:

20 09 24 SEP

INDICES PINDAAN:

03

TAJUK LUKISAN:

TYPICAL INTERNAL SANITARY PLUMBING DIAGRAMMATIC LAYOUT

SKALA:

1:50

NAB CANSELOR

PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDIN

INDUKS OLEH

MUHAMMAD ASYRAF ABD. AZIZ

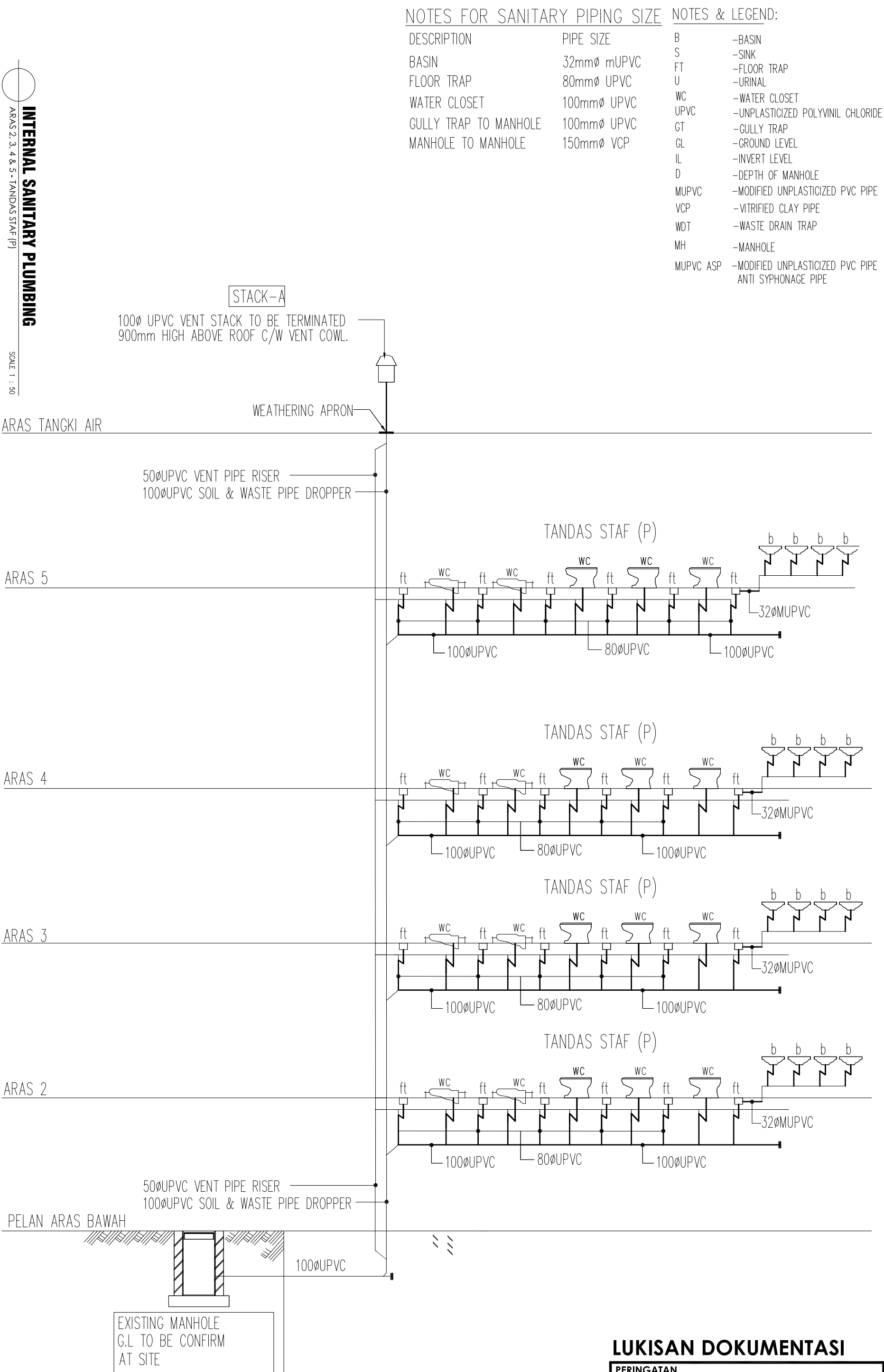
PERINGATAN

03

INTERNAL SANITARY PLUMBING

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

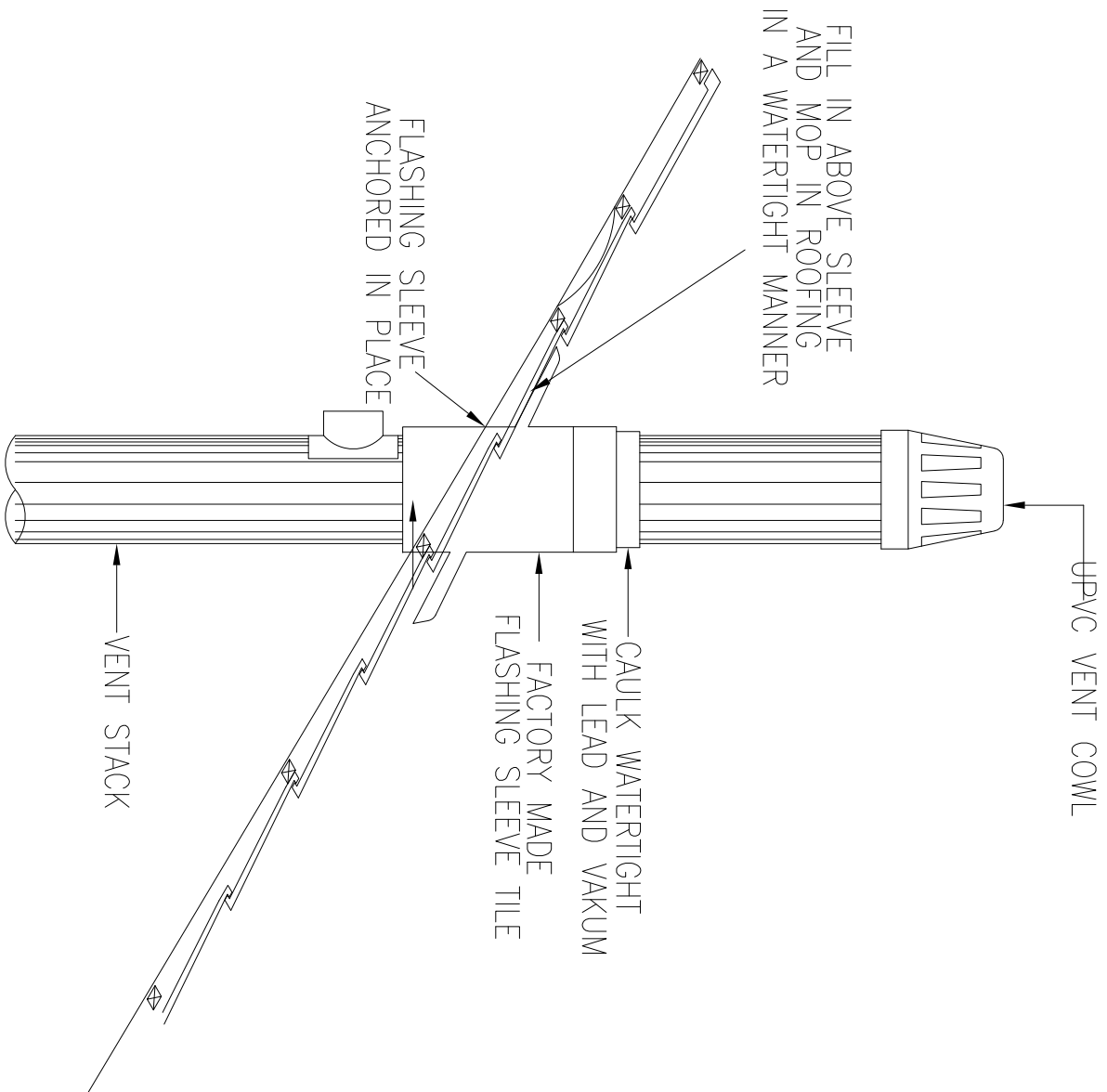
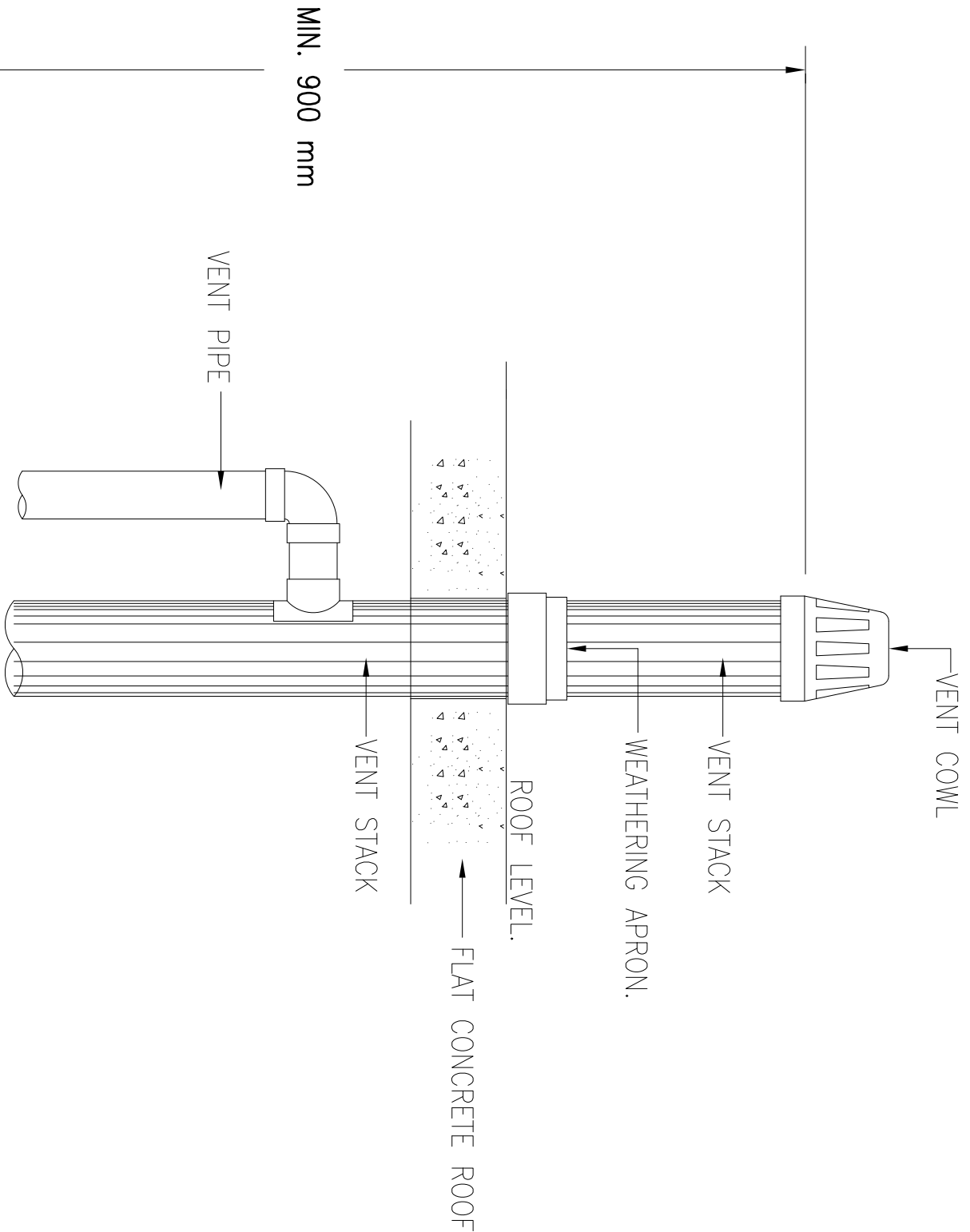
SCALE 1 : 50



LUKISAN DOKUMENTASI

PERINGATAN

HANYA DIMENSI BERANGKA SAHAJA DILAKSANAKAN. KONTRAKTOR MESTI MEMERIKSA SEMUA DIMENSI SEBENAR DI TAPAK BINA. SEBARANG PERCANGGAHAN MESTI DILAPORKAN DENGAN SEGERA KEPADA PEGAWAI PENGUASA SEBELUM KERJA-KERJA DIMULAKAN.



UPVC PIPE PENETRATION DETAIL THROUGH PITCH ROOF
SCALE: N.T.S

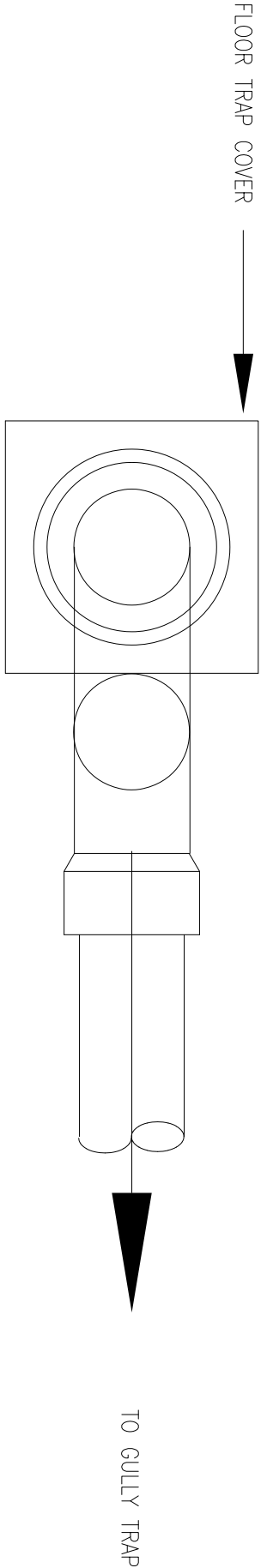
DETAILS OF VENT COWL INSTALLATION

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

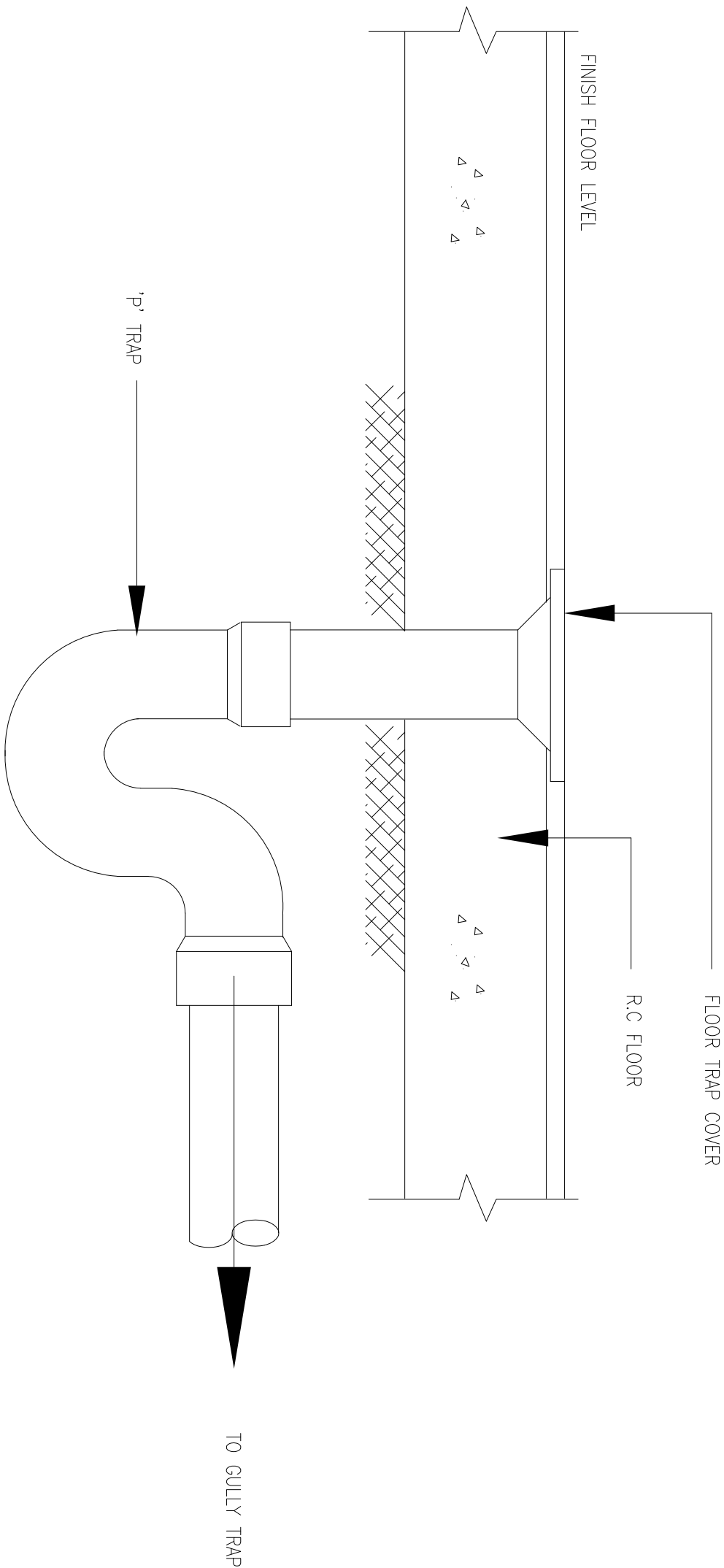
PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS
2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN
SENI KREATIF (KPSK), UTM SHAH ALAM.



NO. RUJUKAN PROJEK:		TARIKH:		NAB CANSELOR		INDEXS PINDAAN	
200-PP11(BP1.5/3/25) MECH - SP		20 09 24 Sep		PENOLONG NAB CANSELOR			
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:		PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR			
DETAIL OF VENT COWL INSTALLATION		N.T.S		KETUA BAHAGIAN PEMBANGUNAN INFRA : IS. MOHAMMED IZRAH ABD. RAZAK			
				ARKITEK			
				DILUKIS OLEH			
				PENGURUS PROJEK / DISEMAK			
				: DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDDIN			
				: PROF. TS. SR. DR. MD. YUSOF HAMID			
				: IR. TS. AZMAN SAUBIRAN			
				: ZULFADU MOHAMMED SALLEH			
				: MAZIAN SAAD			
				: MUHAMMAD ASTRIFF ABD. AZIZ			
						HELAIAN:	
						04	



PLAN VIEW



SIDE VIEW

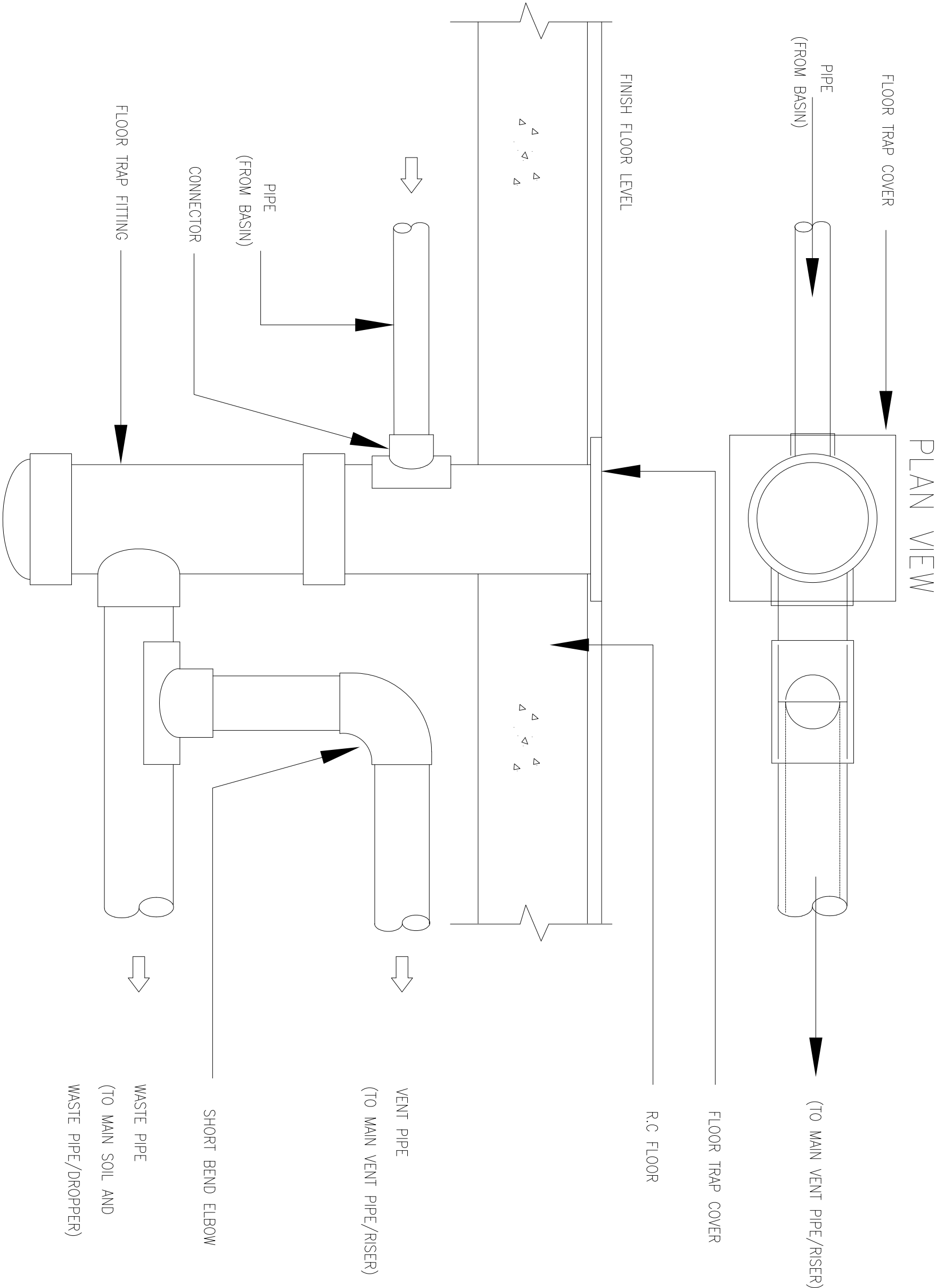
DETAILS OF SANITARY PIPE INSTALLATION FOR FLOOR TRAP UNDER GROUND

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN
SENI KREATIF (KPSK), UTM SHAH ALAM.



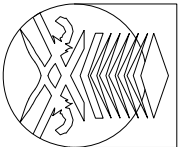
NO. RUJUKAN PROJEK:		TARIKH:		NAB CANSELOR		INDEXS PINDAAN	
200PP1(BP1.5/3/25) MECH - SP		202409		PENOLONG NAB CANSELOR			
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:		DATUK PROF. TS. DR. SHAHRIN SAHB @ SAHBUDDIN			
DETAILS OF SANITARY PIPE		N.T.S		PENGARAH JABATAN PEMBANGUNAN			
FLOOR TRAP UNDER GROUND				INSTRUKTOR			
				KETUA BAHAGIAN PEMBANGUNAN INFRA : TS. MOHAMMED IZRAI ABD. BAZAK			
				ARKITEK			
				DILUKS OLEH			
				PENGURUS PROJEK / DISEYAK			
				: MUHAMMAD ASTRIFF ABD. AZIZ		HELAJAN:	
						05	



DETAILS FLOOR TRAP ABOVE GROUND

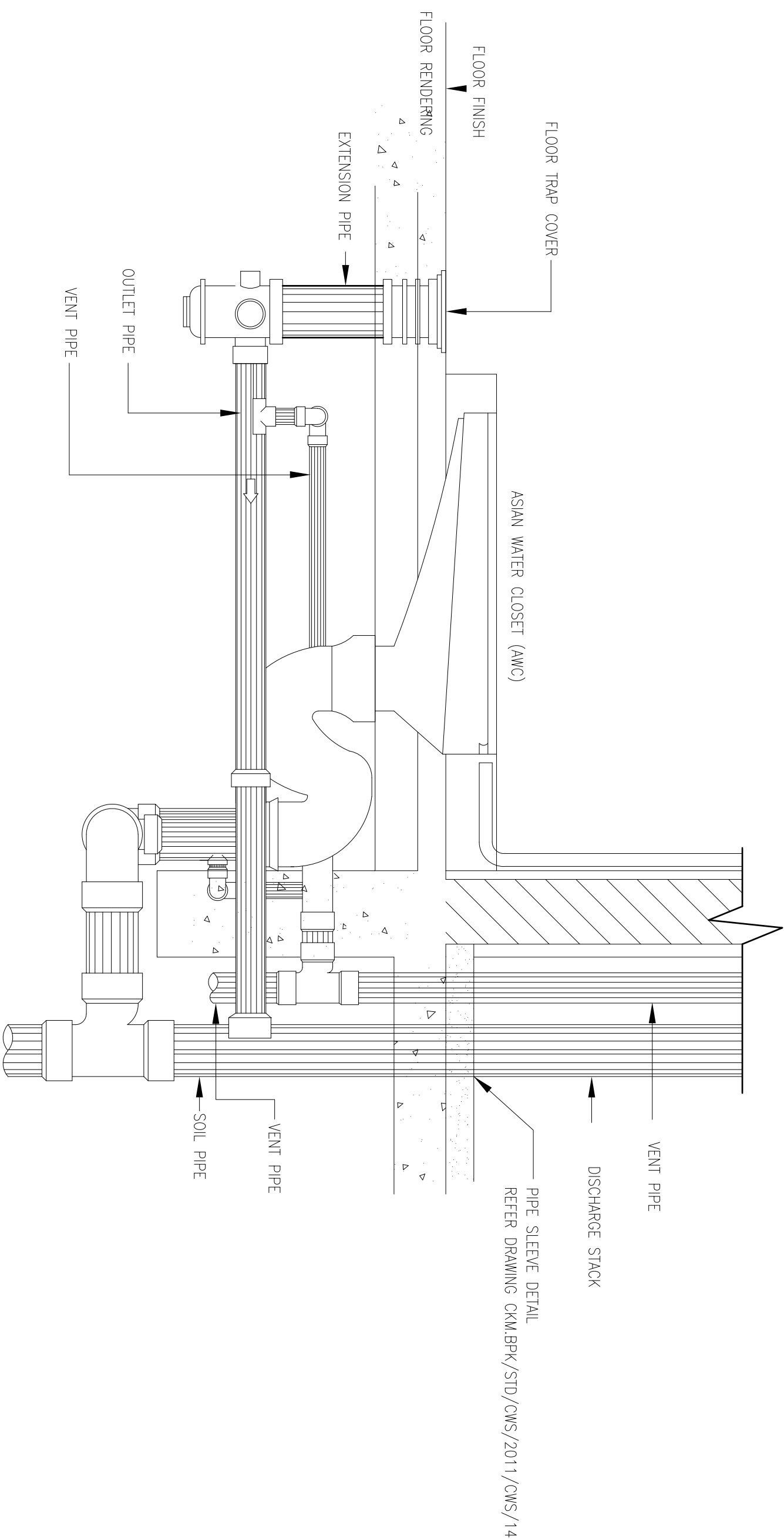
ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN
SENI KREATIF (KPSK), UTM SHAH ALAM.



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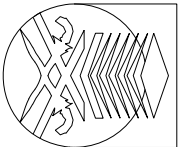
NO. RUJUKAN PROJEK:		TARIKH:		NAIB CANSelor		INDEXS PINDAAN	
200PP1(BP1.5/3/25) MECH - SP		2024 09		PENOLONG NAIB CANSelor			
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:		PENGARAH JABATAN PEMBANGUNAN			
DETAILS FLOOR TRAP ABOVE GROUND		N.T.S		INSTRUKTOR			
				KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZRAI ABD. RAZAK			
				ARKITEK			
				DILUKIS OLEH			
				PENGURUS PROJEK / DISEMAK			
				: DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDIN			
				: PROF. TS. SR. DR MD. YUSOF HAMID			
				: IR. TS. AZMAN SAUBIRAN			
				: ZULFADLI MOHAMED SALLEH			
				: MAZIAN SAAD			
				: MUHAMMAD ASTRIFF ABD. AZIZ			
						HELAIAN:	
						06	



DETAILS ASIAN WATER CLOSET (AWC) - ABOVE GROUND FLOOR

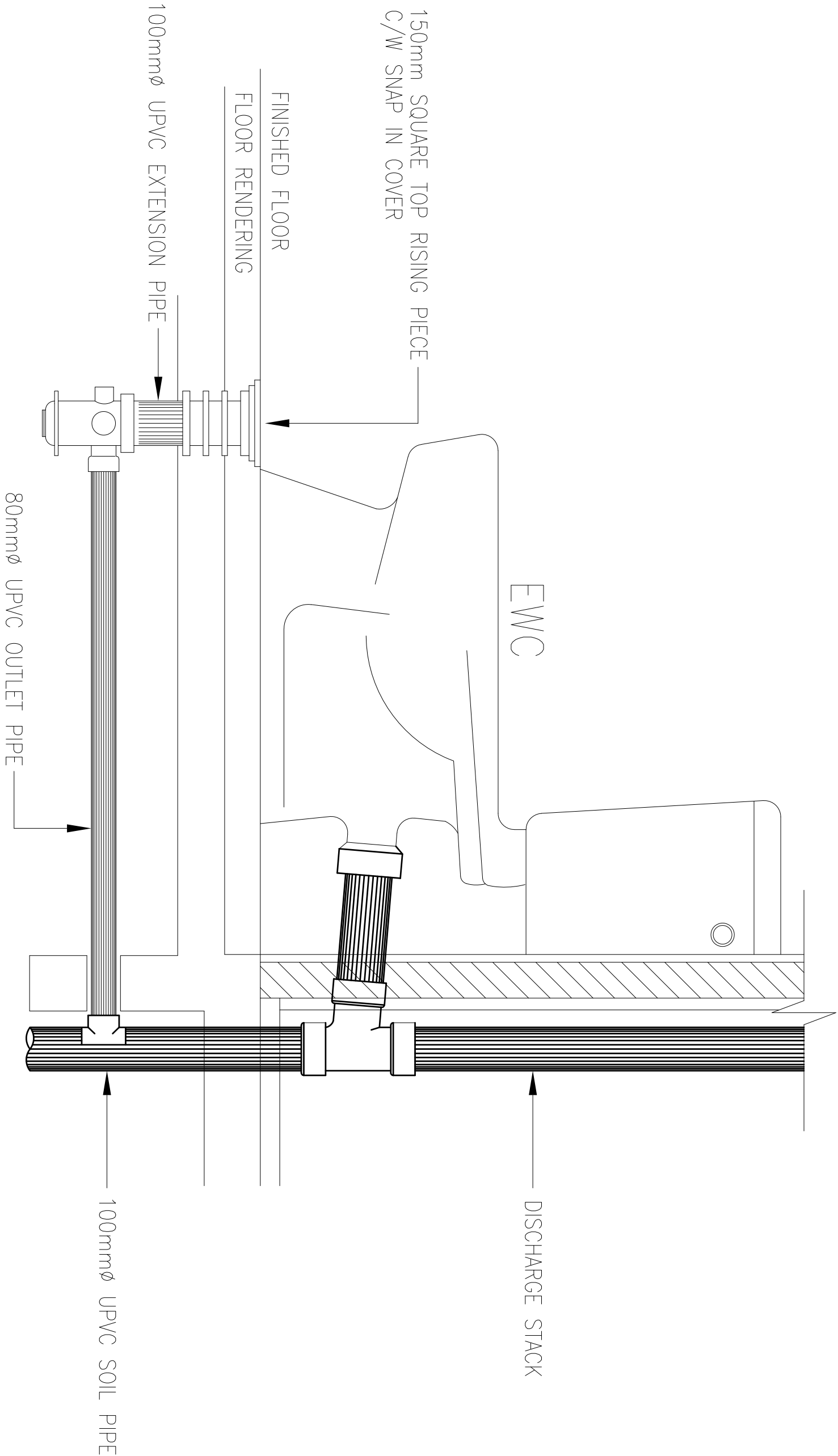
ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KPSK), UTM SHAH ALAM.



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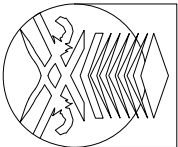
NO. RUJUKAN PROJEK:		TARIKH:	
200-PP1(BP1.5/3/25) MECH - SP		20 09 24 Sep	
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:	
DETAILS ASIAN WATER CLOSET (AWC)		N.T.S	
ABOVE GROUND FLOOR		NAIB CANSelor : DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDDIN	
		PENOLONG NAIB CANSelor : PROF. TS. SR. DR MD. YUSOF HAMID	
		PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR : IR. TS. AZMAN SAUBIRAN	
		KETUA BAHAGIAN PEMBANGUNAN INFRA : TS. MOHAMMED IZRAI ABD. RAZAK	
		ARKITEK : ZULFADU MOHAMED SALLEH	
		DILUKIS OLEH : MAZIAN SAAD	
		PENGURUS PROJEK / DISEYAK : MUHAMMAD ASTRIFF ABD. AZIZ	
INDEXS PINDAAN			HELAIAN: 07



DETAIL OF EWS & FT CONNECTION FOR SINGLE STACK SYSTEM (P TRAP)

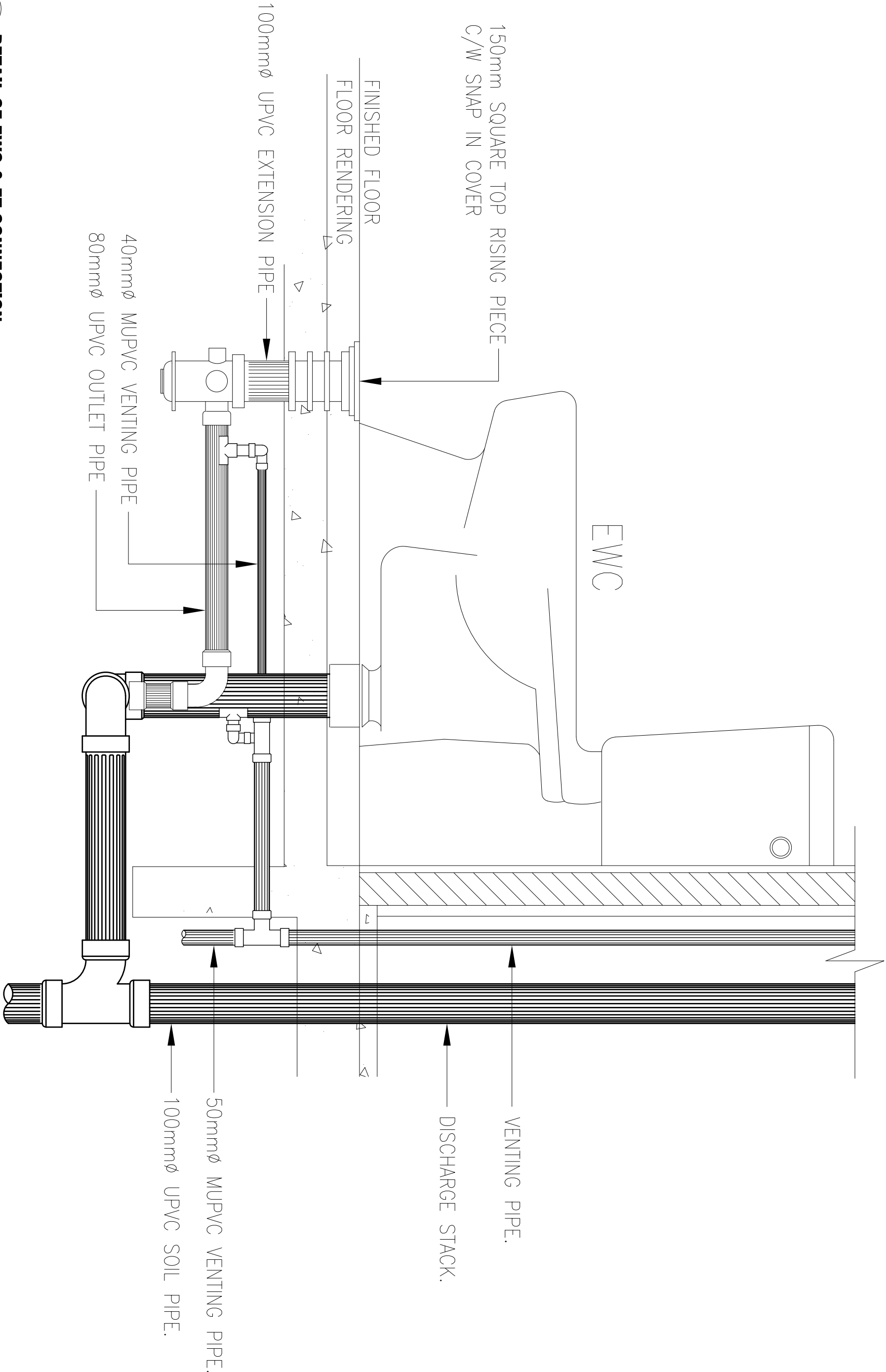


PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KPSK), UTM SHAH ALAM.



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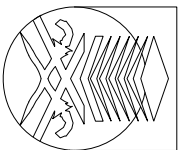
NO. RUJUKAN PROJEK:		TARIKH:	
200-PP1(BP1.5/3/25) MECH - SP		20 09 24 Sep	
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:	
DETAIL OF EWS & FT CONNECTION FOR SINGLE STACK SYSTEM (P TRAP)		N.T.S	
NAIB CANSelor		DATUK PROF. TS. DR. SHAHRIN SAHB @ SAHBUDDIN	
PENOLONG NAIB CANSelor		PROF. TS. SR. DR MD. YUSOF HAMID	
PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR		IR. TS. AZMAN SAUBIRAN	
KETUA BAHAGIAN PEMBANGUNAN INFRA		TS. MOHAMMED IZRAI ABD. RAZAK	
ARKITEK		ZULFADU MOHAMED SALLEH	
DILUKIS OLEH		MAZIAN SAAD	
PENGURUS PROJEK / DISEMAK		MUHAMMAD ASTRIFF ABD. AZIZ	
INDEKS PINDAAN		HELAIAN:	
		08	



DETAIL OF EWC & FT CONNECTION

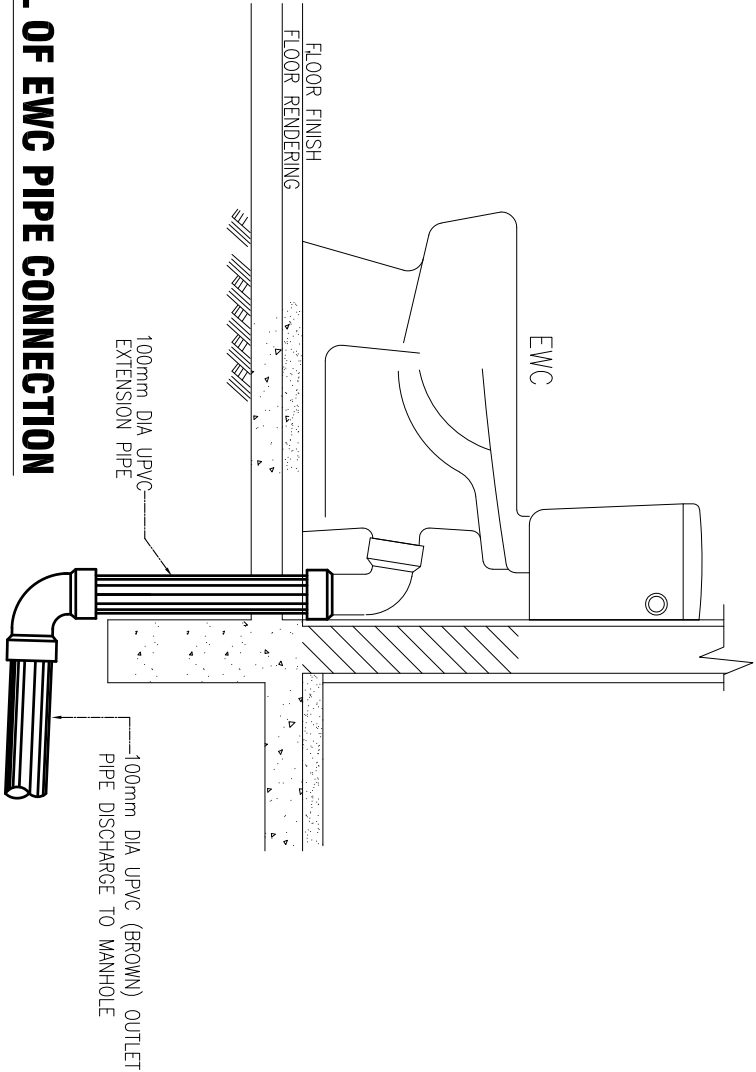
ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KPSK), UTM SHAH ALAM.

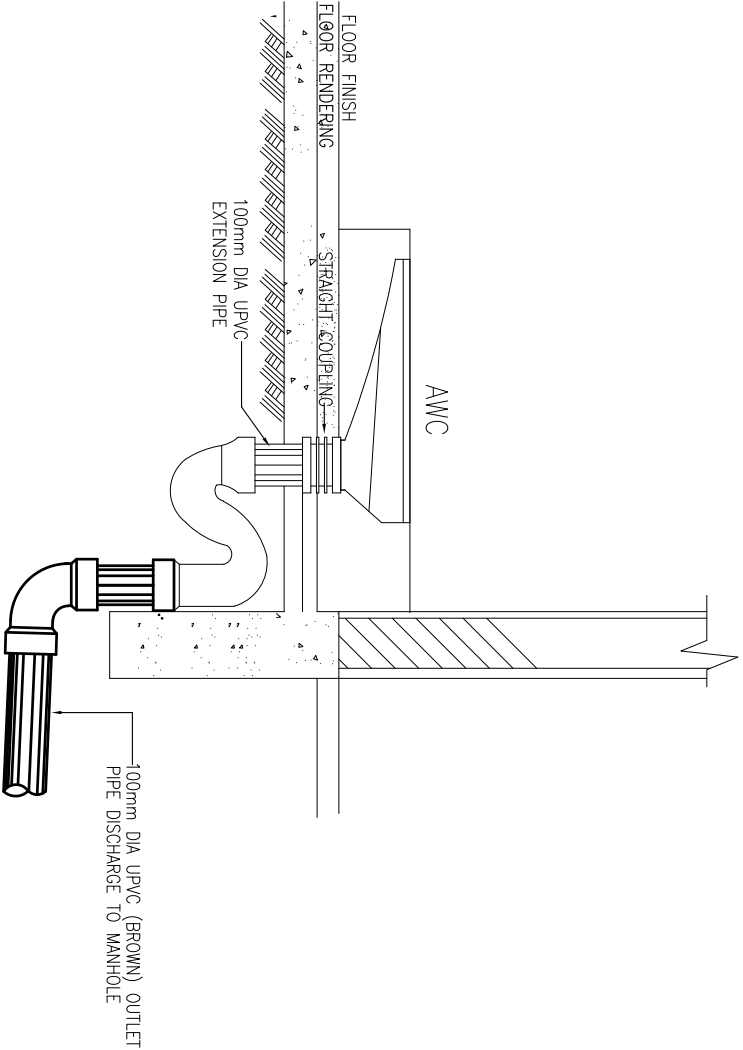


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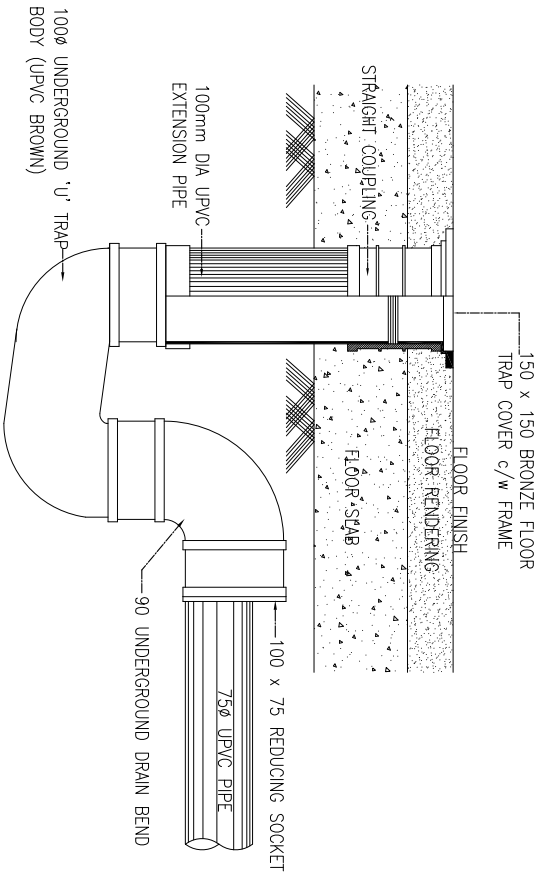
NO. RUJUKAN PROJEK:		TARIKH:	
200PP1(BP1.5/3/25) MECH-SP		20 09	
TAJUK LUKSAN: TERATAI BLOCK 2		24 Sep	
DETAIL OF EWC & FT CONNECTION		N.T.S	
NAB CANSELOR		DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDIN	
PENYOONG NAB CANSELOR		PROF. TS. SR. DR MD. YUSOF HAMID	
PENGARAH JABATAN PEMBANGUNAN		IR. TS. AZMAN SAUBIRAN	
ININSYORUTU		TS. MOHAMMED IZZAT ABD. RAZAK	
KEJUA BAHAGIAN PEMBANGUNAN INFRA		TS. MOHAMMED IZZAT ABD. RAZAK	
ARKITEK		ZULFADLI MOHAMED SALLEH	
DILUKS OLEH		MAZIAN SAAD	
PENGURUS PROJEK / DISEYAK		MUHAMMAD ASRIFF ABD. AZIZ	
INDEXS PINDAAN		HELAIAN:	
		09	



DETAIL OF EWC PIPE CONNECTION



DETAIL OF AWC PIPE CONNECTION

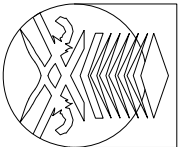


DETAIL OF UNDERGROUND UPVC FLOOR TRAP

DETAIL FOR SANITARY PLUMBING

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KPSK), UTM SHAH ALAM.



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NO. RUJUKAN PROJEK: 200PP1(BP1.5/3/25) MECH-SP		TARIKH: 20 09 24 Sep	NAB CANSELOR : DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHBUDDIN		INDEKS PINDAAN
TAJUK LUKSAN: TERATAI BLOCK 2			PENJOJONG NAB CANSELOR : PROF. TS. SR. DR MD. YUSOF HAMID		
DETAIL FOR SANITARY PLUMBING			PENGARAH JABATAN PEMBANGUNAN : IR. TS. AZMAN SAUBIRAN		
			KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZZAL ABD. RAZAK		
			ARKITEK : ZULFADU MOHAMED SALLEH		
			DILUKIS OLEH : MAZIAN SAAD		
			PENGURUS PROJEK / DISEYAK : MUHAMMAD ASYRAF ABD. AZIZ		
					HELAIAN: 10