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95	61		Patch Repairs to Walls						
96	62		Flush Dado in Cleanrooms						
97									
98			Floor Finishes						
99	63		Pre-vinyl Levelling Screed						
100	64		Vinyl Flooring						
101	65		Coving						
102	66		SC Expenses						
103	67		Floor Duct						
104	68		Tacky Mat						
105									
106			Ceiling Finishes						
107			Cleanroom Ceilings						
108	69		Walk-on Plank GL5.5-3						
109	70		Walk-on Plank GL3-0						
110	71		Metal Pan						
111	72		Cut-outs						
112									
113			Furniture, Fittings & Equipment						
114			Cleanroom FF&E						
115	73		Lab Trolley						
116	74		Mobile SS Benches @ 1600mm x 750mm						
117	75		Mobile SS Benches @ 1800mm x 750mm						
118	76		Mobile SS Benches @ 1300mm x 600mm						
119	77		Lab Chairs on Castors						
120	78		SS Sink Units - Large						
121	79		SS Sink Units - Medium						
122	80		SS Sink Units - Small						
123	81		Mobile SS Shelving @ 1000mm x 500mm						
124	82		Trolley Cabinet - Single-sided Glazed Door (Detergent Store)						
125									
126			Changeroom Equipment						
127	83		Lab Coat Lockers						
128	84		SGL / Trespa Gown & Shoe Storage / Pigeonhole Unit						
129	85		SS Bin						
130	86		Mirrors						
131	87		Open Shelves						
132	88		Coat Hooks						
133	89		Shelf for IPA						
134	90		Stepover Bench c/w Swivel Seat						
135	91		Stepover Bench						
136									
137			Signs & Notices						

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138			92	Component (Details to be Stated)					
139									
140				Civils & Structural					
141				Substructure					
142			93	Excavate for drainage (Incl. saw cut slab, dispose spoli, reinstate after)					
143			94	Install Cast Iron Drainage Pipework					
144			95	Connect to Existing Services / Sewer					
145			96	Surface Penetrations					
146			97	SC Prelims					
147									
148				Frame					
149			98	Take-up & Dispose Existing Chequer Plate Flooring					Incl. in below figures
150			99	Renew Chequer Plate Flooring to Service Floor					
151			100	New Removable Chequer Plate Flooring to Service Floor					
152									
153				Sanitary Installations					
154				Sanitary Appliance					
155			101	Wash Hand basin in Basement and Sinks incl Taps Supply					
156			102	Install					
157			103	Commissioning of Installations					
158									
159				Disposal Installation					
160				Foul Drainage Above ground					
161				Drainage to Sanitary Appliance					
162			104	AGD to Wash Hand Basin in Basement and Lab Sinks					
163				Drainage to Services Equipment					
164				AGD to Washer Units, Autoclaves, Fume Cupboards, Plant and Coil Condensate					
165			105	Stack A					
166			106	Stack B					
167			107	Stack C					
168			108	Testing of Installations					
169									
170				Water Installations					
171				Potable Water Supply					
172			109	Water to Washer Units, Autoclaves, Lab Sinks & WHB etc, incl Insulation					
173			110	Testing of Installations					
174			111	Commissioning of Installations					
175				Hot Water Distribution					
176			112	Hot Water Connection Pipework (incl. Insulation))					
177			113	Electric Water Heaters					
178			114	Testing of Installations					
179			115	Commissioning of Installations					

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Document Number T950/PBL/AS_Rev 3

PORTON BIO PHARM PCC ACTIVITY SCHEDULE

Value	Comment
Commissioning Ventilation	
134 Testing	
135 Draft Commissioning	
136 Signed Off Commissioning	
BWIC Services	
BWIC Services, incl. Penetrations, Weathering, Firestopping, Sealing, etc	
137 BWIC Roof Weathering	
138 Fire Stopping	
139 Wall Penetrations Opening GL5.5 - 3	
140 Wall Penetrations Opening GL3 - 0	
141 Wall Penetrations Making Good GL5.5 - 3	
142 Wall Penetrations Making Good GL3 - 0	
1st Fix Electrical Containment	
Containment - Secondary	
143 GL 5.5 - 3	
144 GL 3 - 0	
1st Fix Electrical Cabling	
145 Lighting GL 5.5 - 3	
146 Lighting GL 3 - 0	
147 Small Power GL 5.5 - 3	
148 Small Power GL 3 - 0	
149 Access Control / Interlocks GL 5.5 - 3	
150 Access Control / Interlocks GL 3 - 0	
151 Data GL 5.5 - 3	
152 Data GL 3 - 0	
153 Fire Alarms GL 5.5 - 3	
154 Fire Alarms GL 3 - 0	
2nd Fix Lighting Equipment & Termination	
155 Light Fittings / PIRS GL5.5 - 3	
156 Light Fittings / PIRS GL3 - 0	
2nd Fix Electrical Systems Equipment & Termination	
157 Accessories GL5.5 - 3	
158 Accessories GL3 - 0	
159 Ceiling Mounted Multi Service Unit	
160 Access Control Devices	
161 CCTV Cameras	
162 Cleanroom Phone Mounting Boxes	
163 Cleanroom Phones	

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384		241	Prelims - Month 9						
385		242	Prelims - Month 10						
386		243	Prelims - Month 11						
387		244	Mobilize/Site Set up						
388		245	Scaffolding - Provisional Sum						
389									
390									
391									
392		246	WFI Still/PSG						
393		247	PW Generation						
394		248	PW Tank						
395		249	WFI Distribution						
396		250	PW Distribution						
397		251	Chiller						
398									
399									
400		252	WFI Still/PSG						
401		253	PW Generation						
402		254	WFI Distribution skid						
403		255	PW Distribution skid						
404		256	Control Panel						
405									
406									
407									
408		257	Tagging systems						
409									
410		258	Ground Floor						
411		259	Basement Pipework						
412		260	First Floor						
413		261	Suspended Ceiling						
414		262	Ground Floor						
415		263	Basement Pipework						
416		264	First Floor						
417		265	Suspended Ceiling						
418		266	Saving as BES e-mail dated 11th December 2020						
419									
420									
421		267	CHW						
422		268	Autoclaves x 2						
423		269	Pumps/Air manifold						
424		270	WFI Heat Exchangers						
425		271	CA Recievers						
426		272	Potable Water plant						

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427	273		Effluent Plant						
428									
429			Installation						
430			Delivery of major items						
431	274		PW Tank						
432	275		Chiller						
433	276		WFI Control Panel						
434	277		WFI Valves						
435	278		Re-site WFI Storage Tank						
436	279		Potable Water Pre-treatment Plant delivery						
437			Purified Water						
438	280		Plantroom Pipework						
439	281		Distribution Pipework						
440	282		Testing/Passivation						
441			WFI						
442	283		Plantroom Pipework						
443	284		Distribution pipework - High Level						
444	285		Distribution pipework - Low Level						
445	286		Testing/Passivation						
446	287		Insulation						
447			Clean Steam						
448	288		Pipework						
449	289		Pipework						
450	290		Pipework						
451	291		Testing/Passivation						
452	292		Insulation						
453									
454	293		Softend Water						
455			Plant Steam & Condense						
456	294		Pipework						
457	295		Pipework						
458	296		Pipework						
459	297		Flushing/Testing						
460	298		Insulation						
461			Compressed Air Equipment, Pipework, Valves & Instruments						
462	299		Install Filters						
463	300		Mains Pipework						
464	301		Mains Pipework						
465	302		Mains Pipework						
466	303		Branch Pipework						
467	304		Branch Pipework						
468	305		Branch Pipework						
469	306		Testing						

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470			Potable Water Distribution						
471	307		Pipework						
472	308		Pipework						
473	309		Flushing/Testing						
474			Chilled Water						
475	310		Offload and site Chiller						
476	311		Mains Pipework						
477	312		Mains Pipework						
478	313		Mains Pipework						
479	314		Branch Pipework						
480	315		Branch Pipework						
481	316		Branch Pipework						
482	317		Testing						
483	318		Insulation						
484	319		WFI Control System - install panels						
485			Electrical & Instrumentation Installation						
486	320		E&IC Wiring						
487	321		E&IC Wiring						
488	322		E&IC Wiring						
489			Commissioning and SAT						
490	323		Purified Water						
491	324		WFI						
492	325		CHW						
493	326		CA						
494			Potable Water						
495									
496	327		Floor Scale						
497	328		Walk in Fume Cupboards						
498	329		Flammable / Corrosive Cabinets						
499	330		Laminar Air Flow (LAFs)						
500									
501			WOD / Service Plant Level						
502									
503			Disinvestment						
504			Electrical Strip Out						
505			Removal of Redundant Services/Equipment						
506	331		GL 5.5 - 3						
507	332		GL 3 - 0						
508									
509			Roof						
510			Making Good Around Penetrations						
511	333		Weathering After Fumigation Stack Removal						
512	334		Weathering (General Penetrations)						

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513									
514			Stairs & Ramps						
515		335	Renew Handrail to Service Floor						
516		336	New Vertical Access Ladder to Service Floor						
517									
518			Internal Walls / Partitions / Cubicles						
519		337	Temp Fire Barrier to Service Floor						
520		338	Install & Take Down						
521									
522			HVAC						
523			Space Heating & Air Conditioning						
524			Central Air Conditioning						
525			AHU 14 - 15 LTHW Pipework, Heater Batteries and Thermal Insulation						
526		339	Heater Batteries						
527		340	AHU & HB Valve Sets						
528		341	Pipework Installation						
529		342	Thermal Insulation						
530									
531			CHW System						
532		343	Pipework Installation inc Basement						
533		344	Thermal Insulation						
534									
535			AHU 14 - 15 System						
536		345	AHU 14						
537		346	AHU15 Supply						
538		347	Delivery and spares						
539		348	Site assembly and leakage testing						
540		349	Attenuators Supply						
541		350	CAV / VAV's GL5.5 - 3						
542		351	CAV / VAV's GL3 - 0						
543		352	Ductwork Installation GL5.5 - 3						
544		353	Ductwork Installation GL3 - 0						
545		354	Thermal Insulation GL5.5 - 3						
546		355	Thermal Insulation GL3 - 0						
547									
548			Automatic Controls						
549			BMS Controls						
550		356	Panel						
551		357	Field Equipment Supply						
552		358	Field Equipment Install						
553		359	Commissioning						
554		360	Electrical Installation Containment						
555		361	Electrical Installation Wiring						



Document Number	T950/PBL/AS_Rev 3
Value	Comment



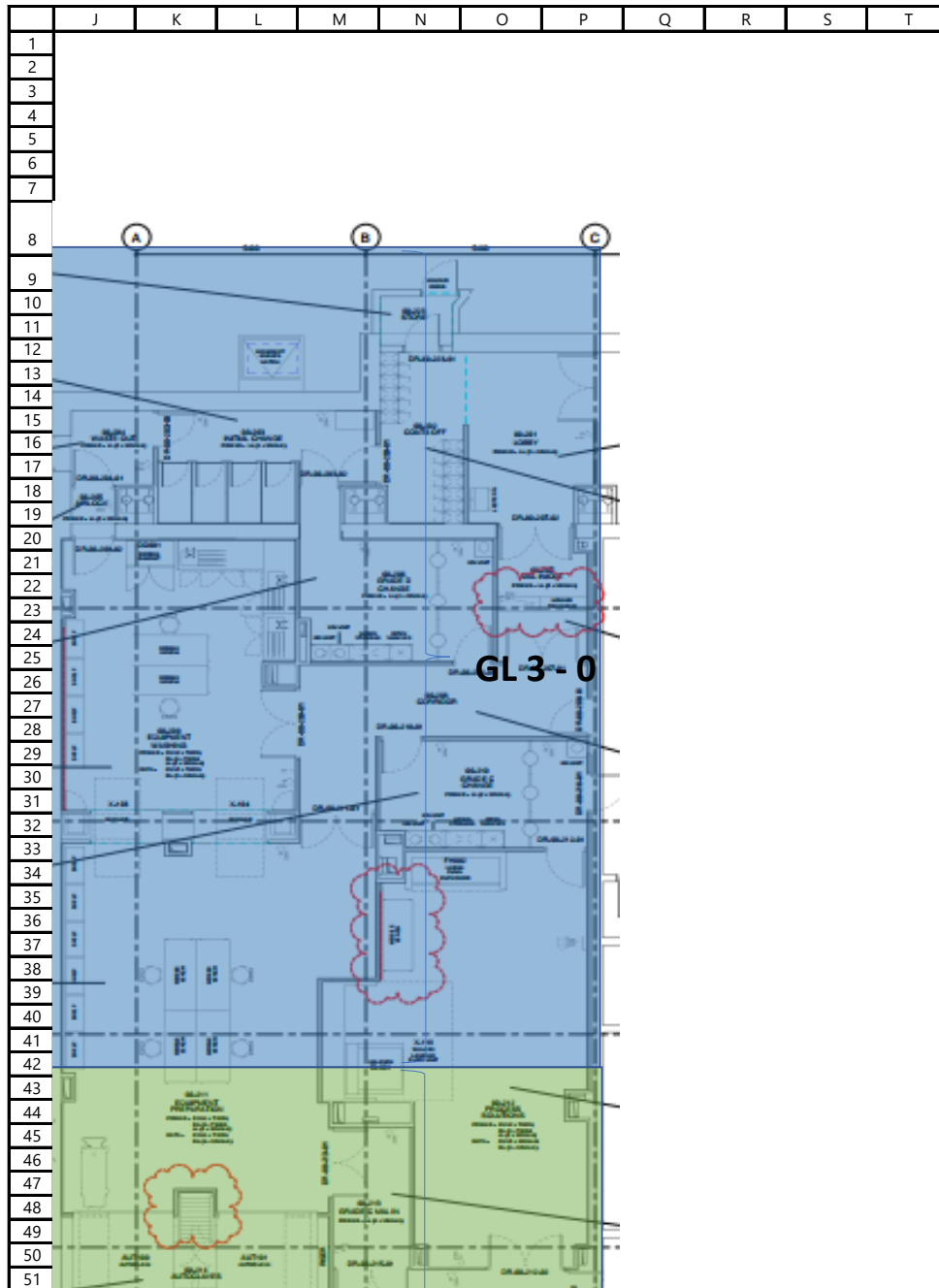
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556		362	Electrical installation Termination						
557									
558			1st Fix Electrical Containment						
559			Containment - Primary						
560		363	GL 5.5 - 3						
561		364	GL 3 - 0						
562			Containment - Secondary						
563		365	GL 5.5 - 3						
564		366	GL 3 - 0						
565									
566			1st Fix Electrical Cabling						
567		367	Sub Mains PPC/24 & PPC/16						
568		368	Sub Mains LB6						
569		369	Sub Mains RCP1						
570		370	Sub Mains MCP/C & MCP/B						
571		371	Sub Mains to External Condenser 2/1						
572		372	Sub Mains to External Condenser 2/2						
573		373	Lighting GL 5.5 - 3						
574		374	Lighting GL 3 - 0						
575		375	Small Power GL 5.5 - 3						
576		376	Small Power GL 3 - 0						
577		377	Access Control / Interlocks GL 5.5 - 3						
578		378	Access Control / Interlocks GL 3 - 0						
579		379	Data GL 5.5 - 3						
580		380	Data GL 3 - 0						
581		381	Fire Alarms/ASD Pipework GL 5.5 - 3						
582		382	Fire Alarms GL 3 - 0						
583									
584			2nd Fix Lighting Equipment & Termination						
585		383	Lighting Accessories / LCM's GL 5.5 - 3						
586		384	Lighting Accessories / LCM's GL 3 - 0						
587		385	Light Fittings GL 5.5 - 3						
588		386	Light Fittings GL 3 - 0						
589									
590			2nd Fix Electrical Systems Equipment & Termination						
591		387	Distribution Equipment PPC/24 including Termination of Sub Main Cabling						
592		388	Distribution Equipment PPC/16 including Termination of Sub Main Cabling						
593		389	PPC/24 MCCB's						
594		390	PPC/16 MCCB's						
595		391	LB6 Termination of Sub Main Cabling						
596		392	RCP1 Termination of Incoming Cabling						
597		393	MCP/C Termination of Sub Main Cabling						
598		394	Condenser 2/1 & 2/2 Termination of Incoming Cabling						

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771			Electrical Services						
772			Disinvestment						
773			Electrical Strip Out						
774	499		Isolation/Alteration of Supplies						
775			Removal of Redundant Services/Equipment						
776	500		GL 5.5 - 3						
777	501		GL 3 - 0						
778									
779			1st Fix Electrical Containment						
780			Containment - Secondary						
781	502		GL 5.5 - 3						
782	503		GL 3 - 0						
783									
784			1st Fix Electrical Cabling						
785	504		Lighting GL 5.5 - 3						
786	505		Lighting GL 3 - 0						
787	506		Small Power GL 5.5 - 3						
788	507		Small Power GL 3 - 0						
789	508		Access Control / Interlocks GL 3 - 0						
790	509		Data GL 5.5 - 3						
791	510		Data GL 3 - 0						
792	511		Fire Alarms GL 5.5 - 3						
793	512		Fire Alarms GL 3 - 0						
794									
795			2nd Fix Lighting Equipment & Termination						
796	513		Light Fittings / PIRS GL5.5 - 3						
797	514		Light Fittings / PIRS GL 3 - 0						
798									
799			2nd Fix Electrical Systems Equipment & Termination						
800	515		Accessories GL5.5 - 3						
801	516		Accessories GL3 - 0						
802	517		Ceiling Mounted Multi Service Unit GL 3 - 0						
803	518		Access Control Devices / Equipment						
804	519		CCTV Cameras						
805	520		CCTV Monitor & Control Equipment						
806	521		Cleanroom Phone Mounting Boxes						
807	522		Cleanroom Phones						
808	523		Clocks						
809	524		Data Outlets						
810	525		Fire Alarm Devices						
811									
812			FMS Design						
813	526		Submission of Quality Plan for Client Approval						

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857			Pipework strip-out						
858	555		Ground Floor						
859	556		WFI Plantroom						
860	557		First Floor						
861	558		Suspended Ceiling						
862			Equipment						
863	559		Chiller AHU's/Pumps						
864	560		Autoclaves & Washing Machine						
865	561		WFI plant						
866	562		CA Receiver						
867									
868			Installation						
869	563		Compressed Air installation						
870	564		CA Testing						
871	565		WFI drop and Panel Room 218						
872	566		Scaffolding - Provisional Sum						
873	567		Commissioning and SAT						
874									
875	568		Laminar Air Flow (LAFs)						
876									
877			Basement						
878			HVAC						
879			Disposal Installations						
880			Foul Drainage Above Ground						
881	569		Basement						
882									
883			WOD / Service Plant Level						
884			Disinvestment						
885			Electrical Strip Out						
886			Removal of Redundant Services/Equipment						
887	570		GL 5.5 - 3						
888	571		GL 3 - 0						
889									
890			Architctural						
891			Roof						
892			Making Good Around Penetrations						
893	572		Weathering (General Penetrations)						
894									
895			Stairs & Ramps						
896	573		Renew Handrail to Service Floor						
897	574		New Vertical Access Ladder to Service Floor						
898	575		Remove & Relocate Existing Ladder						
899	576		Shorten Existing Access Ladder						

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901			Internal Walls / Partition / Cubicles						
902		577	Temp Fire Barrier to Service Floor						
903		578	Install & Take Down						
904									
905			Civils & Structural						
906			Frame						
907		579	Renew Chequer Plate Flooring to Service Floor						
908									
909			Space Heating & Air Conditioning						
910			Central Air-conditioning - Single split allowance						
911		580	Equipment Condensor and indoor unit supply						
912		581	Pipework						
913		582	Tesrt and Commission						
914									
915			AHU 16 LTHW Pipework, Heatert batteies & Thermal Insulation						
916		583	Heater Batteries						
917		584	AHU & HB Valve Sets						
918		585	Pipework Installation						
919		586	Thermal Insulation						
920			AHU 16 CHW Pipework, Cooling Coils & Thermal Insulation						
921		587	Cooling Coil						
922		588	AHU Additional Valve Sets						
923		589	Pipework Installation inc modifications to incoming supply						
924		590	Thermal Insulation						
925		591	Testing of Installations. Pressure test only						
926		592	Commissioning of Installations						
927									
928			Ventilation						
929			AHU 16 System Complete including Thermal Insulation						
930		593	AHU 16						
931		594	Delivery and spares						
932		595	Site assemby and leakage testing						
933		596	Attenuators						
934		597	CAV / VAV's						
935		598	Ductwork Installation						
936		599	Thermal Insulation						
937									
938			Office Heat Recovery Sysytem						
939		600	MVHR Unit						
940		601	Attenuators						
941		602	Ductwork Installation						
942		603	Thermal Insulation						

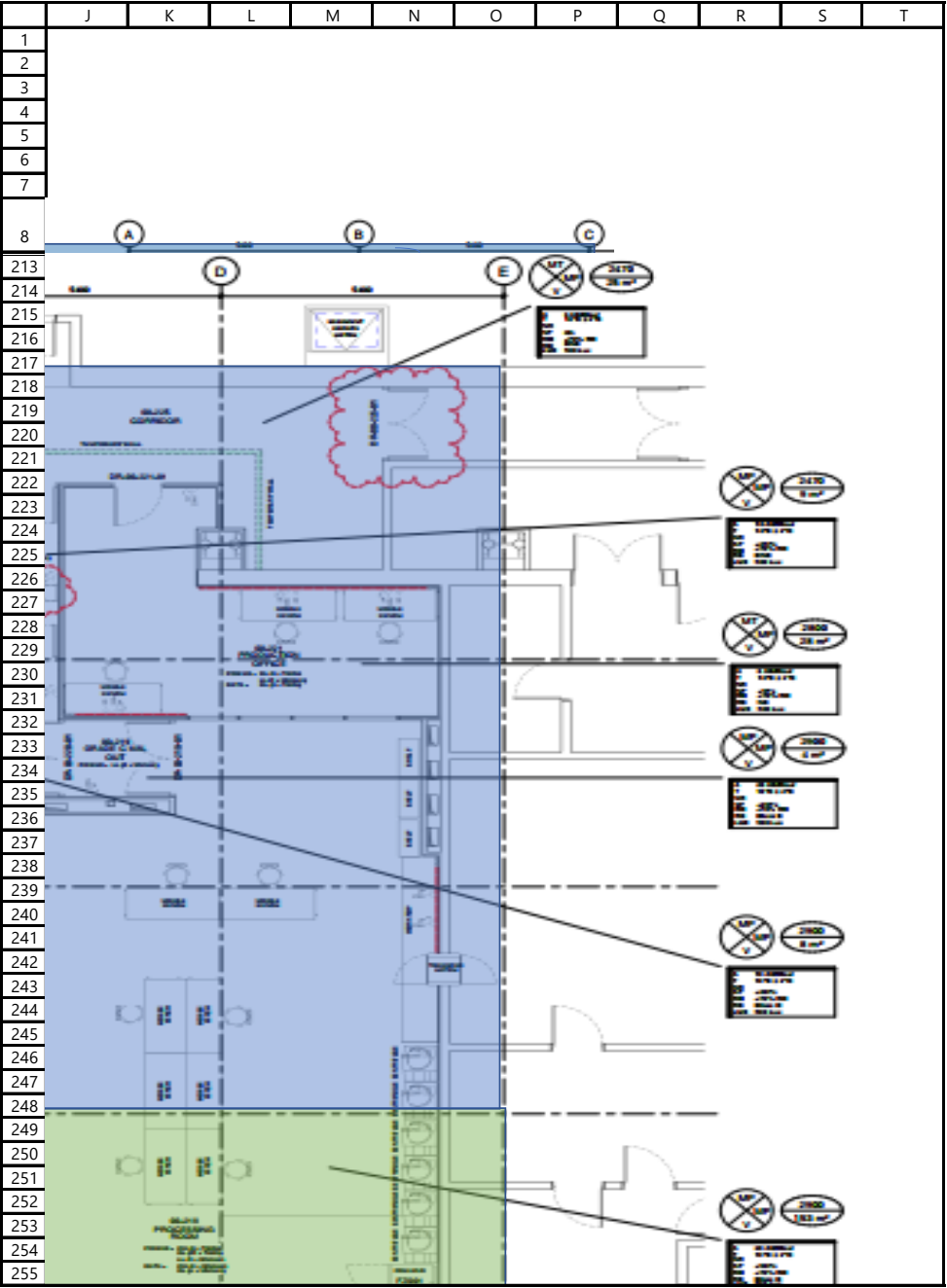
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943	604		Testing of Installations						
944	605		Commissioning of Installations						
945									
946			Automatic Controls						
947			BMS Controls						
948	606		Panel						
949	607		Field Equipment supply						
950	608		Field Equipment install						
951	609		Commissioning						
952	610		Electrical Installation Containment						
953	611		Electrical Installation Wiring						
954	612		Electrical installation Termination						
955									
956			1st Fix Electrical Containment						
957			Containment - Primary						
958	613		GL 5.5 - 3						
959	614		GL 3 - 0						
960			Containment - Secondary						
961	615		GL 5.5 - 3						
962	616		GL 3 - 0						
963									
964			1st Fix Electrical Cabling						
965	617		Sub Mains RCP2						
966	618		Sub Mains to External Condenser 2/1						
967	619		Sub Mains to External Condenser 2/2						
968	620		Lighting GL 5.5 - 3						
969	621		Lighting GL 3 - 0						
970	622		Small Power GL 5.5 - 3						
971	623		Small Power GL 3 - 0						
972	624		Access Control / Interlocks						
973	625		Data GL 5.5 - 3						
974	626		Data GL 3 - 0						
975	627		Fire Alarms/ASD Pipework						
976									
977			2nd Fix Lighting Equipment & Termination						
978	628		Lighting Accessories / LCM's GL 5.5 - 3						
979	629		Lighting Accessories / LCM's GL 3 - 0						
980	630		Light Fittings GL 5.5 - 3						
981	631		Light Fittings GL 3 - 0						
982									
983			2nd Fix Electrical Systems Equipment & Termination						
984	632		RCP2 Termination of Incoming Cabling						
985	633		MCP/B Termination of Sub Main Cabling						

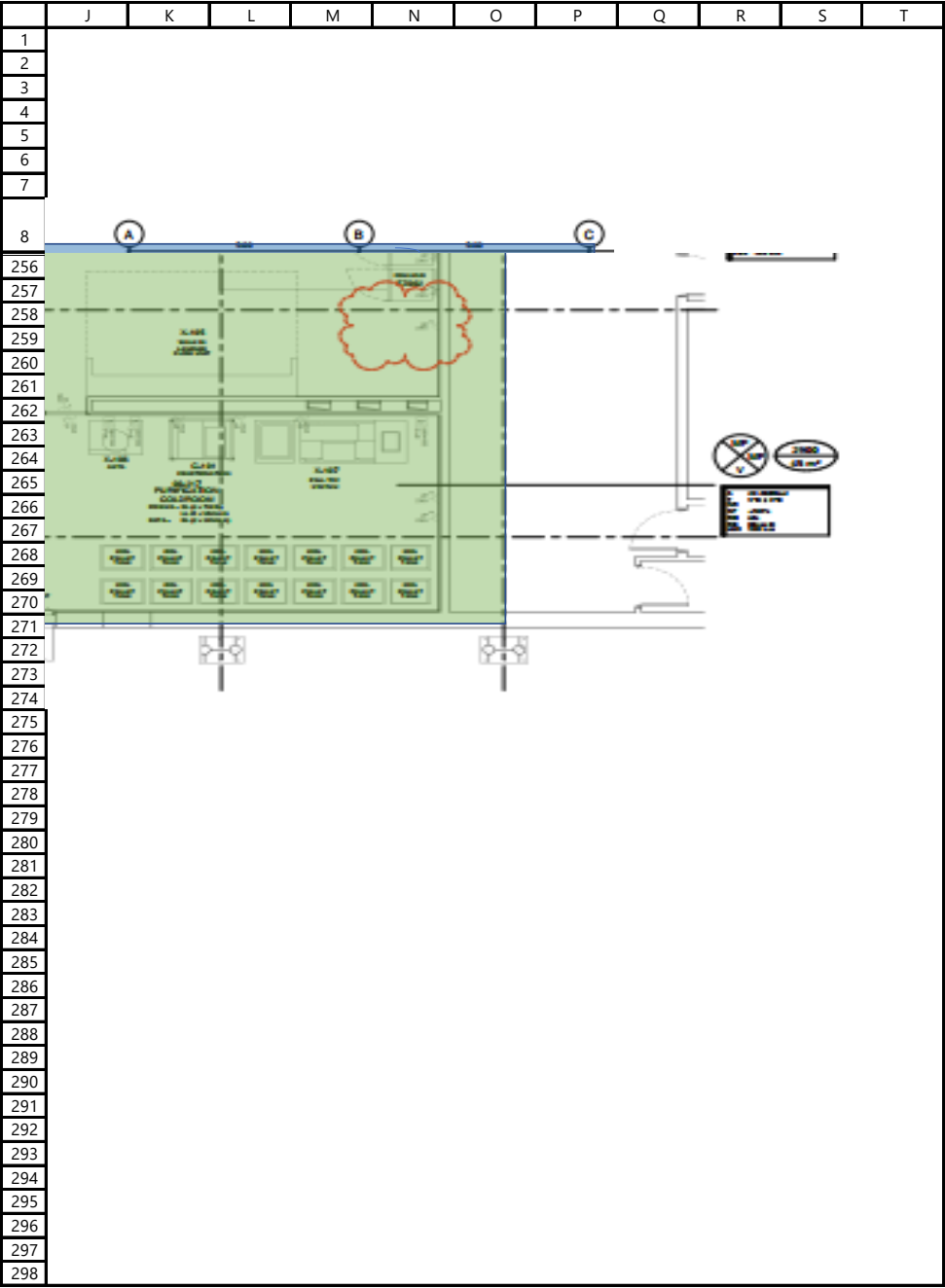


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