

Activity ID	Description	Duration	WEEK																							
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Level B1 Car Park																										
TP06-01	Car park level B1 (B1C) Av. for commencement	0		◆																						
TP06-02	B1C H/L Fire Prot P/rm water mains P/wk & test	2w			■	■	■																			
TP06-03	B1C H/L Domestic water P/rm mains P/wk & test	2w				■	■	■																		
TP06-04	B1C H/L Gas main P/wk to west satellite riser	2w					■	■																		
TP06-05	B1C H/L Main drainage pipework to risers	2w						■	■																	
TP06-06	B1C Trace-heat water main pipework	1w							■																	
TP06-07	B1C H/L Sprinkler mains pipework	2w							■	■																
TP06-08	B1C Basement supply ductwork	2w							■	■																
TP06-09	B1C Water main pipework insulation	1w								■																
TP06-10	B1C H/L Drainage pipework	2w								■	■															
TP06-11	B1C Basement extract ductwork	2w									■	■														
TP06-12	B1C MV bracketry & ladder rack to risers	3w									■	■	■													
TP06-13	B1C H/L Sprinkler range pipework	2w										■	■													
TP06-14	B1C Car park Sup. ductwork / dampers & test	3w											■	■	■											
TP06-15	B1C Car park Ext. ductwork / dampers & test	3w													■	■	■									
TP06-16	B1C LV Containment	3w														■	■	■								
TP06-17	B1C BMS containment & cabling	4w															■	■	■	■						
TP06-18	B1C L/L Sprinkler range pipework	1w																■								
TP06-19	B1C Fire alarm cabling & devices	4w																	■	■	■	■				
TP06-20	B1C Lighting & power 1st fix	4w																			■	■	■	■		
TP06-21	Level B1 LV containment complete	0																							◆	
TP06-22	B1C Security containment & cabling	4w																				■	■	■	■	
TP06-23	B1C Ductwork insulation	3w																					■	■	■	
TP06-24	B1C Lighting & power final fix	2w																						■	■	
TP06-25	B1C Security devices & cameras	2w																							■	■

Template Programme TP06 - Level B1 Car Park

Activity ID	Activity Description	Predecessors / Comments
TP06-01	Car park level B1 (B1C) Av. for commencement	Identification of the commencement date. Walls built, access available, area dry and free of debris etc.
TP06-02	B1C H/L Fire Prot P/rm water mains P/wk & test	This pipework is installed from the firemain intake room located on basement level B1 to the fire protection plant room located on basement level B3. It uses the level B1 car park as a thoroughfare to the northwest riser. Because this pipework is a direct dedicated supply there are no branches from it to feed any other supplies, therefore it makes sense to install this at the highest possible level for the easier co-ordination of other services.
TP06-03	B1C H/L Domestic water P/rm mains P/wk & test	As activity TP06-02 but from the domestic water intake and meter room to the domestic water plantroom.
TP06-04	B1C H/L Gas main P/wk to west satellite riser	Gas main pipework from the Gas intake and meter room on basement level B1 to the west satellite riser. This is also a direct dedicated supply using the B1 car park as a thoroughfare.
TP06-05	B1C H/L Main drainage pipework to risers	This item refers to the main rainwater and foul drainage pipework from various risers across the B1 car park to the sewer and drainage connections room. Because this pipework has to be installed with a fall towards the sewer and drainage connections room it may be necessary to install some of this pipework before the water mains for co-ordination purposes. The foul drainage pipework from the lower basement levels will be pumped up to the B1 level from the sump wells located on basement level B3.
TP06-06	B1C Trace-heat water main pipework	The domestic and fire protection plant room water mains pipework will be trace heated to prevent condensation. This will follow testing but precede the insulation.
TP06-07	B1C H/L Sprinkler mains pipework	This item refers to the sprinkler mains pipework for the B1 car park level. This mains pipework will be installed from the northeast and northwest risers to feed the sprinkler range pipework. There will be separate pipework runs (emanating from the basement level B3 fire protection plant room) to feed each separate zone.
TP06-08	B1C Basement supply ductwork	As well as the actual car park supply air ductwork there is also going to be supply air ductwork for the plant rooms located on the basement B1 level. The basement supply air ductwork is a completely separate "system" from the car park supply air ductwork "system" so a single ductwork run cannot serve both "systems". The basement supply air ductwork is going to be installed through the car park to supply fresh air into the various plant rooms and switch rooms.
TP06-09	B1C Water main pipework insulation	Follows the trace heating of the pipework. Due to co-ordination this may have to occur prior to the installation of any lower services for access purposes.
TP06-10	B1C H/L Drainage pipework	This is usually the first service to be installed in the majority of "areas". But in a car park where there are numerous other services using it as a thoroughfare the drainage is usually co-ordinated around these services. Especially if these transient services are installed in close proximity to each other, as they will be if they are going to riser locations.
TP06-11	B1C Basement extract ductwork	As TP06-08 - but for the extract ductwork (which would be fire-rated)

Template Programme TP06 - Level B1 Car Park

Activity ID	Activity Description	Predecessors / Comments
TP06-12	B1C MV bracketry & ladder rack to risers	This refers to the ladder rack containment from the MV switch rooms 1 & 2 to the northeast and northwest electrical risers. It is always preferable to install the MV ladder rack at the earliest opportunity, as this will expedite the "power-on" date. This ladder rack containment has to be accessible for the subsequent MV cable installation. It could be installed as one of the highest services, however, if this was the case than the MV cables would also have to be installed prior to the installation of the lower services.
TP06-13	B1C H/L Sprinkler range pipework	Follows the installation of the sprinkler mains pipework. Generally one of the highest services, but like the drainage pipework it would need to be co-ordinated around the other services passing through the car park. The sprinkler range pipework for car park areas could be pre-fabricated off site as there will be a number of repetitive lengths.
TP06-14	B1C Car park Sup. ductwork / dampers & test	Refers to the supply air ductwork and dampers etc. for the car park fresh air supply. This would be installed from the car park supply Air plant room located on level B2.
TP06-15	B1C Car park Ext. ductwork / dampers & test	Refers to the extract air ductwork and dampers etc. car park level B1. The extract ductwork would have grilles both at high and low level for the extraction of fumes and the ductwork itself would be fire-rated. The level B1 car park extract ductwork would connect into a plenum from which it would be extracted from the building.
TP06-16	B1C LV Containment	Will always be one of the lowest services for access purposes, and will generally set up and down between the mechanical services. Installed from the LV switch rooms to risers and plant rooms. Needs to be fully completed before the commencement of the LV cable installation.
TP06-17	B1C BMS containment & cabling	The main containment routes for the BMS 1st fix could be installed by the electrical contractor. This would normally consist of a primary trunking installation link between the plant rooms and risers. The local containment and cabling by the BMS contractor consists of all containment from the primary trunking to each respective item of plant, the installation of BMS control panels (even if they do not contain the actual controls at that stage) and all associated cabling. The BMS interfaces with the plant items will be identified within those respective plant room "areas". The BMS primary trunking could be routed throughout the basement B1 level because it could provide a more accessible wiring route to serve the plant rooms below and also the ground floor above.
TP06-18	B1C L/L Sprinkler range pipework	Depending upon the setting out there could be a requirement for sprinkler heads beneath the other services passing through the car park, therefore part of the sprinkler range pipework installation would have to follow the installation of the other services.
TP06-19	B1C Fire alarm cabling & devices	Needs to allow the mechanical contractors to have a good head start (unless there are likely to be co-ordination issues), otherwise it is extremely likely that the fire alarm cabling will incur damage. This can be as a result of items such as fire alarm, BMS and security routes not specifically indicated on the CSD's. The 1st fix installation work consists of all cabling and terminations and the fitting of break glasses, detector bases and sounders. The fire alarm interfaces with the plant items will be identified within those respective plant room "areas".
TP06-20	B1C Lighting & power 1st fix	The 1st fix installation work consists of all trunking and conduit containment, fitting of distribution boards, all associated wiring and terminations of accessories and ceiling roses. It could also include the primary trunking containment routes for the BMS and security installations if it was in the scope of the electrical contractor's work.

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Activity ID	Activity Description	Predecessors / Comments
TP06-21	Level B1 LV containment complete	Provides a status regarding the availability for the commencement of the LV cable installation. Useful when organising the programme by "system" or "milestone".
TP06-22	B1C Security containment & cabling	The 1st fix installation work consists of all local containment (assuming that the electrical contractor is installing the primary links between plantrooms, staircases and risers), the installation of control panels (even if they do not contain the actual controls) and all associated cabling. There may be a requirement for another separate activity to interface with the installation of the doors, if the door installation does not co-coincide with either the 1st or final fix activities. The level below the ground floor will carry the main containment for the security controlled lobby access, which will require significantly more work.
TP06-23	B1C Ductwork insulation	Would follow the successful testing of the ductwork.
TP06-24	B1C Lighting & power final fix	Refers to the installation of luminaires, signs and final accessory cover plates.
TP06-25	B1C Security devices & cameras	Refers to access buttons, door locks and cameras - which would only be installed in a clean, safe and dust free environment.

General Notes:

- 1 To be read in conjunction with Basement Level B1 Electrical and Utilities Plant Room Layout