



- Notes**
- All levels in mAOD, unless specified otherwise.
  - This drawing shall be read in conjunction with all other Engineer's drawings, reports and specifications.
  - Layout is based on Topographical survey drawing '21D054' rev 001 undertaken by Survey Operations; dated April 2021.
  - Existing drainage information is based on the following information:
    - United Utilities Wastewater records obtained by Groundwise; dated 14/11/2020.
    - Drainage CCTV Survey drawing '8775/01' produced by Lanes Group Plc; dated 19/01/2021.
    - Utility GPR Survey drawing '201026/001' produced by Survey Operations; dated December 2020.
  - Layout is based on the following Architectural Plans:
    - Landscape Masterplan drawing '0845-RFM-XX-00-M2-L-0001' rev P12 produced by Re-Form; dated 12/04/2022.
    - Office Ground Floor Layout drawing '1667-MAK-XX-00-DR-A-A2000' rev P11 produced by Make; dated 23/04/2022.
    - The Hop Ground Floor Layout drawing 'KSDS-CAA-V1-00-M2-A-0001' produced by Cassidy + Ashton; dated 31/03/2021.
    - Tree pit Detail Drawing 'RF20-845-WP04-04' received 07/04/2021.
  - This drawing does not include existing utilities information. Refer to Existing drawing 'BTG1-HAN-A-00-DR-N-9009' produced by Hannan; dated 18/06/2021.
  - Extents of sewer abandonments and sewer diversions agreed with United Utilities via email on 21/09/2021. Refer to Drawing BTG1-ARP-ZZ-BG-DR-CD-2001.
  - All drainage to be constructed to adoptable standards as per the Design and Construction Guidance for foul and surface water sewers offered for adoption and Building Regulations Part H.
  - The minimum depth of cover to all drainage shall be 1.2m, unless specified otherwise.
  - For any surface water drainage within soft landscaping, refer to rain garden detail on drawing 'BTG1-ARP-ZZ-BG-CD-4009'.
  - This drawing shows proposed highway drainage only, for private drainage refer to drawing BTG1-ARP-ZZ-XX-DR-CD-2005 and for drainage channel layouts refer to BTG1-ARP-ZZ-XX-DR-CD-2006.

**Key**

- Approximate Footprint of Office Building and Car Park
- Existing Sewers
- Existing Chambers
- Existing Gullies
- Proposed Surface Water Sewer
- Proposed perforated pipes
- Proposed Gullies
- Proposed Surface Water Chamber
- Proposed Drainage Channel
- Proposed landscape planting zones
- Proposed lawned areas (not drained)
- Proposed bio retention planting zones

P09	08/06/22	RR	TH	RI
Update to Manhole Schedule				
Rev	Date	By	Chkd	Appl

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Client  
**Muse Developments**

Project Title  
**King Street Office Development Blackpool**

Drawing Title  
**External Works Highways Drainage General Arrangement**

Scale at A1  
1:250

Role  
Civils

Suitability  
S2 - For Information

Arup Job No  
**278729-00**

Name  
**BTG1-ARP-ZZ-XX-DR-CH-2005**

Rev  
**P09**

SURFACE WATER MANHOLE SCHEDULE						
Structure Name	Cover Level	Depth	MH DIA	Cover Type	Clear Opening	Connected Pipes
SMH04	23.102	0.910	4750	B125	4300	Pipe (40) Inv. 22.192 Pipe (41) Inv. 22.192 S006 Inv. 22.192
SMH05	23.183	1.023	4750	B125	4300	S006 Inv. 22.160 S008 Inv. 22.160 S007 Inv. 22.160
SMH06	23.195	1.021	4750	B125	4300	S007 Inv. 22.173
SMH07	23.144	0.986	4750	D400	4300	S009 Inv. 22.158 Pipe (39) Inv. 22.158
SMH08	23.213	1.053	4750	D400	4300	S009 (1) Inv. 22.160 S011 Inv. 22.160 S010 (1) Inv. 22.160
SMH09	23.566	1.200	12000	D400	600x600	S013 Inv. 22.366 S012 Inv. 22.366
SMH10	23.854	1.710	12000	D400	600x600	S013 Inv. 22.143 S016 Inv. 22.143
SMH11	23.939	2.133	4750	B125	4300	S017 Inv. 21.806
SMH12	24.095	1.894	4750	B125	4300	S019 Inv. 22.267 S017 Inv. 22.201
SMH13	23.970	1.355	4750	B125	4300	S020 Inv. 22.615 S018 Inv. 22.635 Pipe (38) Inv. 22.615
SMH14	23.967	1.416	4750	B125	4300	S021 Inv. 22.625 S020 Inv. 22.552 S022 Inv. 22.599 S023 Inv. 22.720
SMH15	24.069	1.311	4750	B125	4300	S021 Inv. 22.887 S024 Inv. 22.887 Pipe (37) Inv. 22.758
SMH16	24.058	1.322	4750	D400	4300	S024 Inv. 22.736 S025 Inv. 23.312
SMH17	24.222	1.516	4750	B125	4300	S026 Inv. 22.706
SMH18	23.912	3.807	4750	B125	4300	S028 (1) (1) Inv. 22.619 S027 Inv. 22.562 Pipe (44) (1) Inv. 20.105 Pipe (45) Inv. 20.105
SMH19	23.918	1.394	4750	B125	4300	S028 Inv. 22.721 S027 (1) Inv. 22.524
SMH20	23.650	1.290	4750	B125	4300	S028 (1) (1) (1) (1) (1) Inv. 22.632 S029 Inv. 22.350