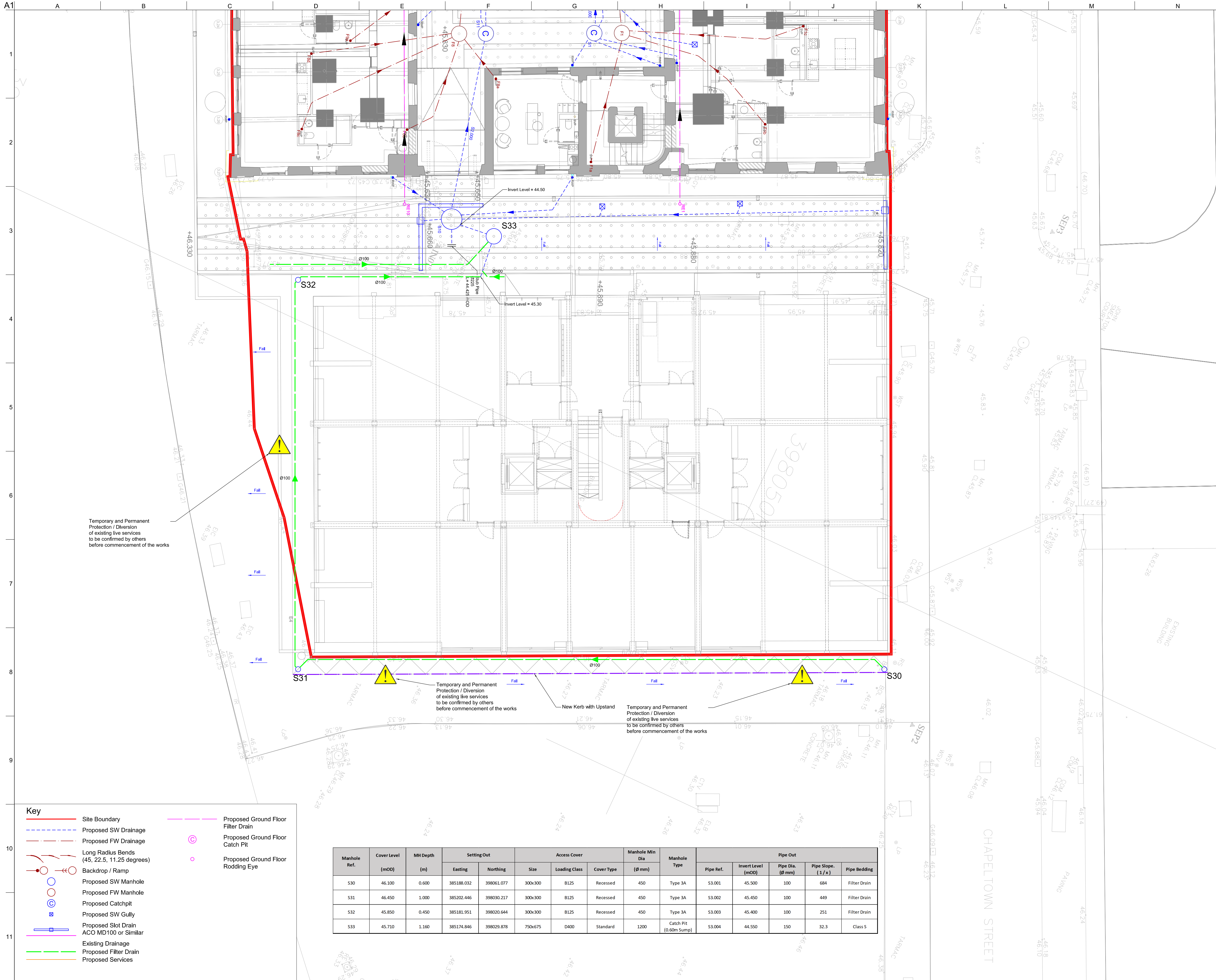




Notes

1. All dimensions are in mm, all levels in mAOD unless specified otherwise.

2. This map is reproduced from Ordnance Survey Material with the permission of the Ordnance Survey on behalf of the controller of her Majesty's Stationary Office (c) Crown Copyright. License Number 0100031673 (2016).

3. This drawing is copyright and if for use at the permission of Arup. This drawing should be read in conjunction with all relevant consultants drawings and specifications.

4. To be read in conjunction with all project specifications and drawings.

5. Layout is based on drawing CW SKM (SO) 900 svp gully coordinates rev c.

6. All gully and linear drainage connections are to be 150mm diameter vitrified clay pipe.

7. Final gully and channel locations to be verified on site by contractor taking into account final architect's paving layout and installation details.

8. Building Connections are based on drawing CW SKM (00) 120125 pro level 00 GA.

9. Rain Water Pipe Connection are based on drawing CW SKM (00) 120125 pro level 00 GA.

10.Specifications: All external drainage to be in accordance with the Civil Engineering Specification for the Water Industry (CESWI) 7th Edition and Sewers for Adoption 7th Edition.

11.Pipe Materials:
Solid Wall PVC-U (BS EN 1401);
Vitrified Clay (BS 65 and BS EN 5911);
Concrete (BS EN 1916 and BS EN 5911);

12.Existing Foundations layout is based on Joule drawings 100 to 115 - Ext Plans and Trial Pits

13.All SVP to have Invert Level 1.0m below FFL. Refer to Standard Details.

14.FW pipes to be Ø100 installed at 1:40 unless otherwise specified on the plans or schedules. SW pipes to be Ø100 installed at 1:60 unless otherwise specified on the plans or schedules.

15.Services Layout based on BSD Drawing dated 26/04/2018

16.Surveys required to confirm existing outlets and conditions. Refer to drawing: CW-ARUP-ZZ-XX-SK-C-2401 for scope of survey.

C0111/11/20JRARAR

Issued for Construction

Rev	Date	By	Chkd	Appd
-----	------	----	------	------

ARUP

12th Floor The Plaza
100 Old Hall Street Liverpool L3 9QJ
Tel+44(0)151 227 9397 Fax+44(0)151 227 9398

Client
Capital & Centric

Project Title
Crusader Works

Key Plan

1Z2W2C2E

5Z3W3C3E

4Z

Drawing Title

Proposed Drainage Layout Plan

Sheet 8 of 8

Scale at A1

1:100

Role

Civils

Suitability

A1 - Fit for Construction

Arup Job No

260470-00

Rev

C01

Name

CW-ARUP-ZZ-XX-DR-C-2409

Key

Site Boundary

Proposed SW Drainage

Proposed FW Drainage

Long Radius Bends (45, 22.5, 11.25 degrees)

Backdrop / Ramp

Proposed SW Manhole

Proposed FW Manhole

Proposed Catchpit

Proposed SW Gully

Proposed Slot Drain ACO MD100 or Similar

Existing Drainage

Proposed Filter Drain

Proposed Services

Proposed Ground Floor Filter Drain

Proposed Ground Floor Catch Pit

Proposed Ground Floor Rodding Eye

Manhole Ref.	Cover Level (mOD)	MH Depth (m)	Setting Out		Access Cover			Manhole Min Dia (Ø mm)	Manhole Type	Pipe Out				
			Easting	Northing	Size	Loading Class	Cover Type			Pipe Ref.	Invert Level (mOD)	Pipe Dia. (Ø mm)	Pipe Slope. (1/x)	Pipe Bedding
S30	46.100	0.600	385188.032	398061.077	300x300	B125	Recessed	450	Type 3A	S3.001	45.500	100	684	Filter Drain
S31	46.450	1.000	385202.446	398030.217	300x300	B125	Recessed	450	Type 3A	S3.002	45.450	100	449	Filter Drain
S32	45.850	0.450	385181.951	398020.644	300x300	B125	Recessed	450	Type 3A	S3.003	45.400	100	251	Filter Drain
S33	45.710	1.160	385174.846	398029.878	750x675	D400	Standard	1200	Catch Pit (0.60m Sump)	S3.004	44.550	150	32.3	Class S

Do not scale

© Arup