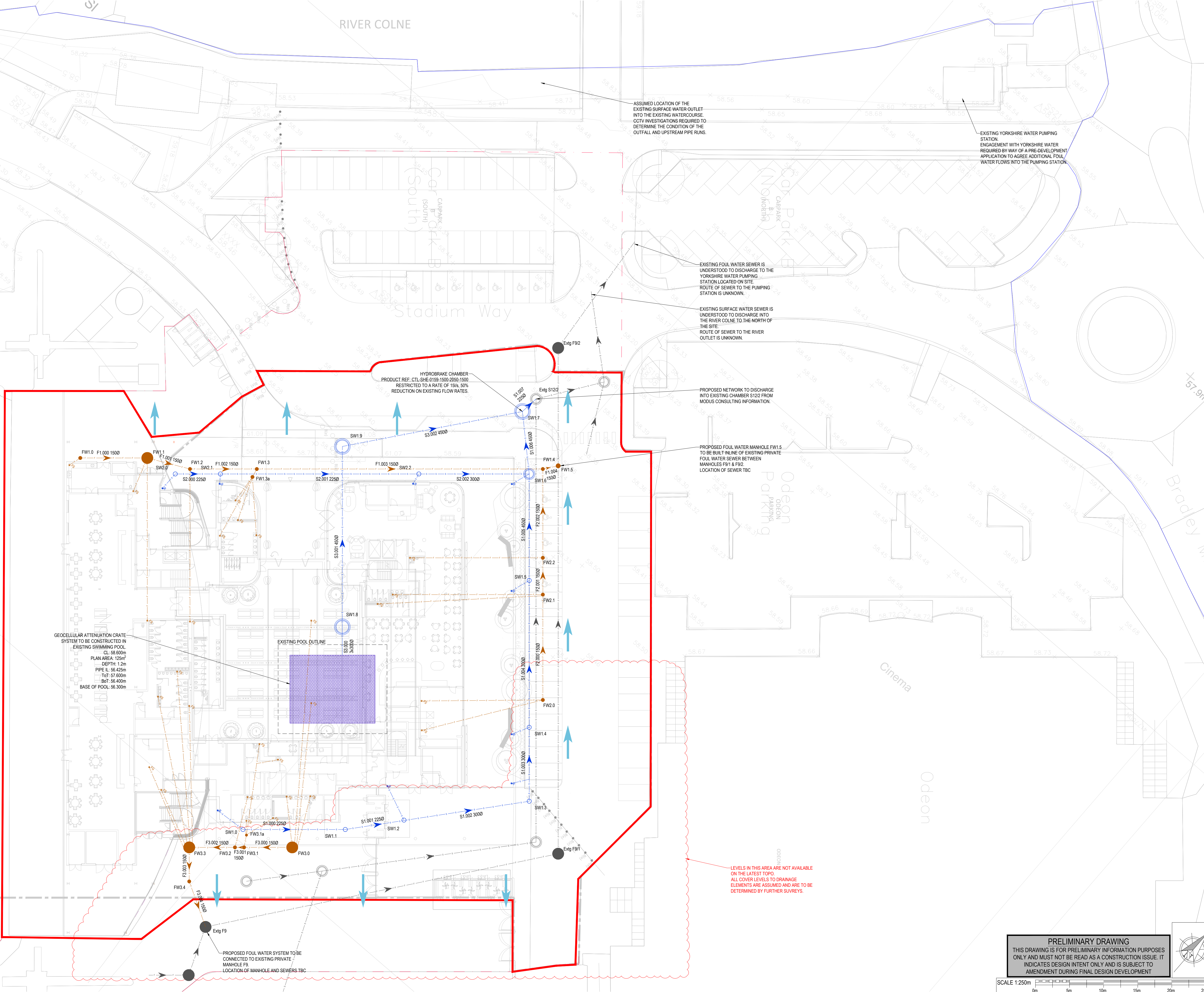




DRAWING REFERENCE LIST

DRAWING NUMBER	REV	DATE	CREATOR
KSTAD-BUT-HO-00-DR-A-04015	P05	18.06.2026	BUTRESS ARCHITECTS
KSTAD-BUT-HO-04-DR-A-04005	P04	27.03.2026	BUTRESS ARCHITECTS
14697-1000A	A	20.12.2017	THE HARRIS PARTNERSHIP
1116-101	P01	24.02.1997	MODUS CONSULTING
RF20-1354-00-M2-L-0104	P06	14.07.2006	RE-FORM

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERS' AND ARCHITECTS' DRAWINGS, DETAILS AND SPECIFICATIONS
- REFER TO THE ARCHITECT & SERVICES ENGINEER FOR FINAL SETTING OUT OF ALL BUILDINGS & INTERNAL DOWN PIPES & RWPS
- REFER TO SERVICE ENGINEER FOR ABOVE GROUND PLUMBING ROUTES FROM APPLIANCES TO SUB STACKS ETC
- EXISTING DRAINAGE THAT IS TO BE ABANDONED TO BE 'PLUGGED' IN WITH MASS CONCRETE (150mm MIN) OR REMOVED ENTIRELY
- ANY EXISTING SERVICES TO BE LOCATED AND CLEARLY MARKED PRIOR TO EXCAVATIONS BY CONTRACTOR
- ALL LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR ON SITE PRIOR TO CONSTRUCTION
- IT IS ASSUMED THAT ALL RWPS, SINK AND TOILET DRAINAGE POINTS WILL HAVE RODDING ACCESS AT THE APPLIANCE BASE
- CONTRACTOR TO AVOID UNDERMINING ANY EXISTING FOOTPATHS/BUILDINGS DURING WORKS BY ALLOWING ADEQUATE PROTECTION ADJACENT TO THESE AREAS
- ALL BELOW GROUND DRAINAGE PIPES WITH LESS THAN 900mm COVER TO SOFFIT LEVEL IN TRAFFICED AREAS I.E. CAR PARK AND SERVICE YARD, TO HAVE CLASS 2 BEDDING SURROUND. REFER TO THE MANHOLE SCHEDULE AND DETAIL SHEETS FOR FURTHER DETAILS
- ALL BELOW GROUND DRAINAGE WITHIN THE SITE BOUNDARY HAS BEEN DESIGNED TO ISEN 752:2008 AND BUILDING REGULATIONS - PART H 2015. THE OFF SITE DRAINAGE TO THE PUBLIC SEWER ARE DESIGNED TO THE SEWERAGE SECTOR GUIDANCE

DRAINAGE STRATEGY

REFER TO MANHOLE SCHEDULES FOR ALL COVER LEVELS, INVERT LEVELS, MANHOLE DIAMETERS & PIPE GRADIENTS.

THE FOLLOWING TEXT DESCRIBES THE **SURFACE WATER** DRAINAGE DISPOSAL STRATEGY FOR THIS DEVELOPMENT.

THE SITE IS CLASSIFIED AS A BROWNFIELD DEVELOPMENT. KEY POINTS FOR THE STRATEGY ARE AS FOLLOWS:

- THE CHOSEN METHOD OF DISCHARGE FOR THE SITE IS THROUGH DISCHARGE INTO A WATERCOURSE AT A RESTRICTED FLOW RATE VIA A GEOCELLULAR ATTENUATION TANK AND HYDROBRAKE WITHIN THE CAR PARK.
- THE LEVEL OF BELOW GROUND STORAGE REQUIRED IS APPROXIMATELY 180m³ WITH NO INFILTRATION.
- THE PROPOSED DEVELOPMENT HAS AN IMPERMEABLE AREA OF APPROXIMATELY 3,824m². THE TOTAL IMPERMEABLE AREA OF THE SITE BOUNDARY WILL REMAIN UNCHANGED.
- THE DESIGN IS FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1 IN 100 YEAR EVENT PLUS 45% CLIMATE CHANGE.
- DUE TO THE PROPOSED LAND USE, THE POLLUTION HAZARD LEVEL FOR THE SITE IS CLASSIFIED AS LOW. AS A RESULT, THE RUNOFF PRODUCED BY THE SITE WILL NOT REQUIRE A ANY POLLUTION MITIGATION PRIOR TO DISCHARGE.

THE FOLLOWING TEXT DESCRIBES THE **FOUL WATER** DRAINAGE DISPOSAL STRATEGY FOR THIS DEVELOPMENT.

- THE CHOSEN METHOD OF DISCHARGE FOR THE SITE IS TO BE VIA A GRAVITY CONNECTION INTO THE EXISTING PRIVATE NETWORK ON SITE, BEFORE DISCHARGING TO THE PUBLIC FOUL WATER PUMPING STATION WITHIN THE SITE.

KEY:

PROPOSED SURFACE WATER GRAVITY SEWER

PROPOSED FOUL WATER GRAVITY SEWER

EXISTING SURFACE WATER GRAVITY SEWER

EXISTING FOUL WATER GRAVITY SEWER

SURFACE WATER INSPECTION CHAMBER (450, 6000)

SURFACE WATER PPC RING MANHOLE (1200 - 27000)

RAIN WATER PIPE (R)

CELLULAR ATTENUATION

FOUL WATER SHALLOW ACCESS CHAMBER (3000)

FOUL WATER INSPECTION CHAMBER (450, 6000)

FOUL WATER PPC RING MANHOLE (1200 - 27000)

FOUL STACK (FS) / SOIL VENT PIPE (SVP) / STUB STACK (SS)

OVERLAND EXCEEDNACE FLOW ARROWS

NOTE:

- AN AREA OF THE TOPO WAS NOT INCLUDED AROUND THE NORTH STAND OF THE STADIUM, AND THE LEVELS IN THIS AREA HAVE BEEN ASSUMED. ALL LEVELS WITHIN THE CLOUDED AREA ARE TBC.
- NO CCTV SURVEY HAS BEEN PROVIDED AT THIS TIME, AND EXISTING SEWERS SHOWN ARE SCALED FROM ARCHIVE DRAWINGS. ALL EXISTING SEWER POSITIONS AND LEVELS ARE TBC. THE CONDITION OF THE EXISTING SEWERS IS ASSUMED TO BE GOOD AND USABLE AS PART OF THE PROPOSED STRATEGY. COST ALLOWANCE TO BE MADE FOR CCTV INVESTIGATIONS TO THE EXISTING NETWORK (FOUL & SURFACE WATER) INDICATED ON THIS DRAWING. APPROPRIATE COST ALLOWANCE TO ALSO BE MADE FOR LOCALISED REPAIRS SHOULD THEY BE REQUIRED.
- NO RWP OR FOUL WATER WASTE POINTS HAVE BEEN PROVIDED AT THIS STAGE AND AS SUCH POSITIONS SHOWN ARE ASSUMED FOR THE COMPLETION OF THE DRAINAGE STRATEGY. ALL RWP AND WASTE POINT POSITIONS TBC BY ARCHITECT/ MEP ENGINEER.

Rev

Date

Description

By

Check

App.

P04	16.07.2026	ATTENUATION TANK MOVED TO EXISTING SWIMMING POOL	JC	KE	KE
P03	23.04.2026	PRELIMINARY ISSUE	HB	KE	KE
P02	10.04.2026	PRELIMINARY ISSUE	JC	CB	KE
P01	02.04.2026	PRELIMINARY ISSUE	JC	KE	KE

Client

TOWN SPORTS & ENTERTAINMENT GROUP LIMITED

Project

ACCU STADIUM HOTEL
JOHN SMITHS STADIUM, HUDDERSFIELD
MANCHESTER - 0161 613 6000

Office

PROPOSED DRAINAGE
GENERAL ARRANGEMENT

Title

Scale @ A1

1:250

Status

A1

clancy consulting

www.clancy.co.uk

Project Ref

KSTAD

Originator

CCL

Volume

XX

Level

XX

File Type

DR

Discipline

C

Drawing No.

05000

Revision

P04

PRELIMINARY DRAWING

THIS DRAWING IS FOR PRELIMINARY INFORMATION PURPOSES ONLY AND MUST NOT BE READ AS A CONSTRUCTION ISSUE. IT INDICATES DESIGN INTENT ONLY AND IS SUBJECT TO AMENDMENT DURING FINAL DESIGN DEVELOPMENT

SCALE 1:250m

0m

5m

10m

15m

20m

25m

LEVELS IN THIS AREA ARE NOT AVAILABLE ON THE LATEST TOPO. ALL COVER LEVELS TO DRAINAGE ELEMENTS ARE ASSUMED AND ARE TO BE DETERMINED BY FURTHER SURVEYS.

Drawn By: KSTAD/CCL/XXX/DR/C/05000/P04_Drainage_08.dwg