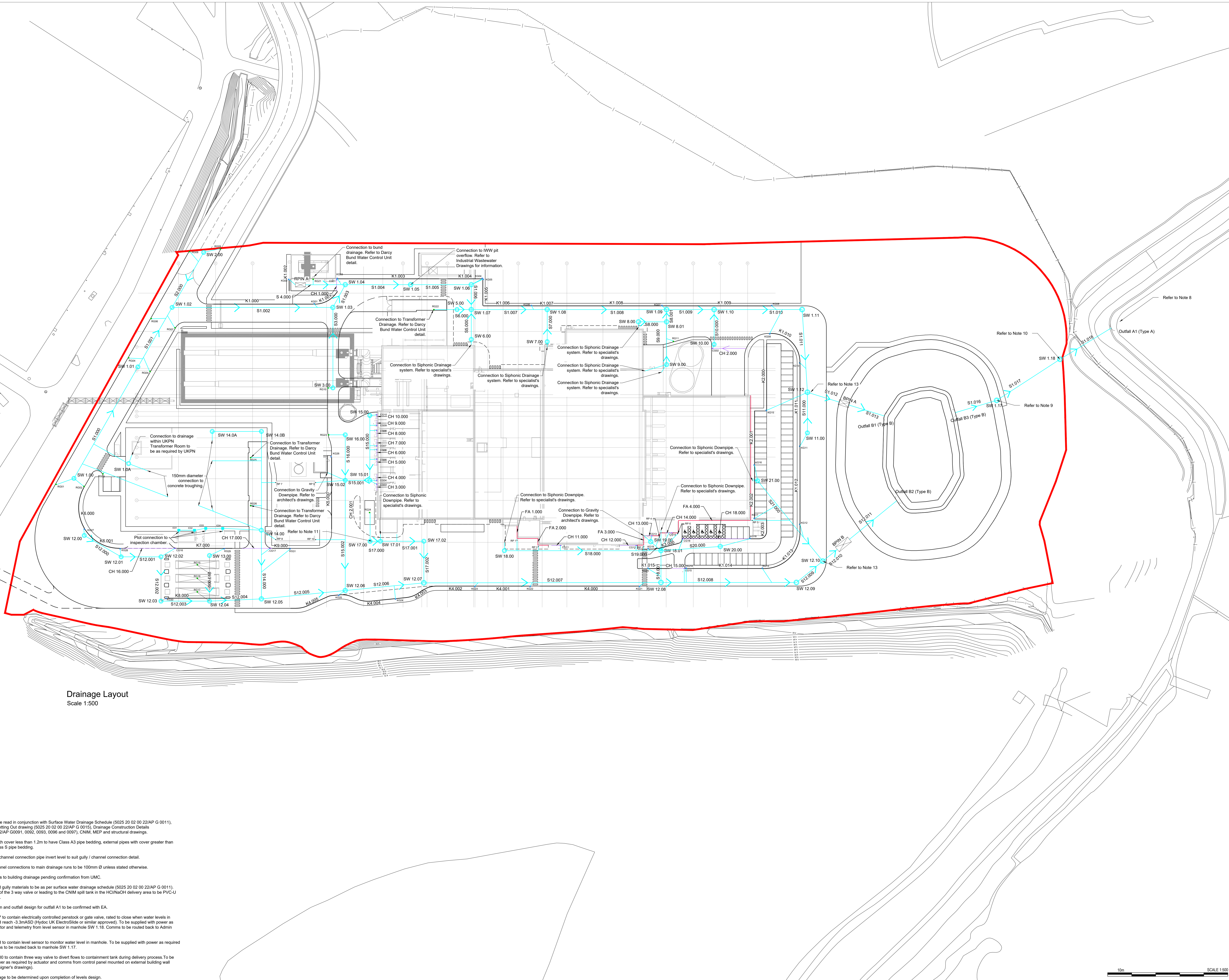


notes :

1. If this drawing has been received electronically it is the recipient's responsibility to print the document to the correct scale.
2. All dimensions are in millimetres unless stated otherwise. It is recommended that information is not scaled off this drawing.
3. This drawing should be read in conjunction with all other relevant drawings and specifications.

Legend:

- Channel Drain
- Surface water sewer
- Surface water filter drain (perforated pipe)
- Kerb inlet drain
- Manhole
- R001 Road Gully
- K002 Kerb Gully
- C003 Channel Gully
- BPIN Bypass Petrol Interceptor
- RPIN Full Retention Petrol Interceptor
- Headwall
- DP 1 Downpipe



Drainage Layout
Scale 1:500

Drawing for **PLANNING** purposes only
 Content of drawing based on ARUP drawing number 20-02-00-22 APG 0001.
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J	Drawing updated to current site plan, drainage amended accordingly.	CW	DW	07.09.18
H	Client logos updated. Steam export rack updated as per CH16 drawing. Drainage philosophy updated. Outfall detail note removed. Electrical layout removed. Site plan updated.	JT	CMGD	15.02.17
G	Drawing updated to suit new drainage layout.	JH	CMGD	18.01.17
F	Foul outfall drainage updated.	LMA	ST	02.08.13
E	Drawing updated to suit UI layout.	AJL	ST	11.07.13
D	Updated to suit revised site layout. Logos clarified.	AKC	RM	15/01/10
C	Drawing figure added. Updated to suit revised site layout.	AKC	ST	16/12/09
B	Minor amendments	JDW	RM	04/11/09
A	Compensatory ditch indicated.	AKC	ST	28/10/09
rev	amendments	by	chk	date

1. This drawing to be read in conjunction with Surface Water Drainage Schedule (5025 20 02 00 22/AP G 0011), Surface Water Setting Out drawing (5025 20 02 00 22/AP G 0015), Drainage Construction Details (5025 20 02 00 22/AP G0091, 0092, 0093, 0096 and 0097), CNM, MEP and structural drawings.
2. External pipes with cover less than 1.2m to have Class A3 pipe bedding, external pipes with cover greater than 1.2m to have Class S pipe bedding.
3. Upstream gully / channel connection pipe invert level to suit gully / channel connection detail.
4. All gully and channel connections to main drainage runs to be 100mm Ø unless stated otherwise.
5. Connection Points to building drainage pending confirmation from UMC.
6. Pipes, fittings and gully materials to be as per surface water drainage schedule (5025 20 02 00 22/AP G 0011). Those upstream of the 3 way valve or leading to the CNM spill tank in the HCl/NaOH delivery area to be PVC-U with EPDM seals.
7. Discharge location and outfall design for outfall A1 to be confirmed with EA.
8. Manhole SW 1.17 to contain electrically controlled penstock or gate valve, rated to close when water levels in manhole SW 1.18 reach -3.3m(±SD) (Hyloc UK Electric/Slide or similar approved). To be supplied with power as required by actuator and telemetry from level sensor in manhole SW 1.18. Comms to be routed back to Admin Block.
9. Manhole SW 1.18 to contain level sensor to monitor water level in manhole. To be supplied with power as required by sensor. Comms to be routed back to manhole SW 1.17.
10. Manhole SW 17.00 to contain three way valve to divert flows to containment tank during delivery process. To be supplied with power as required by actuator and comms from control panel mounted on external building wall (refer to MEP designer's drawings).
11. Landscape drainage to be determined upon completion of levels design.



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Client
Wheelabrator TECHNOLOGIES

Project **Kemsley Sustainable Energy Plant**

Title **Proposed Drainage Layout**

Drawing Status	Date Created	Drawing Scale
Preliminary	September 2009	1:500
Project Leader	Drawn By	Initial Review
AWY	AKC	ST

Drawing Number **16315 / A0 / 0301** Rev **J**

Figure 4.25D