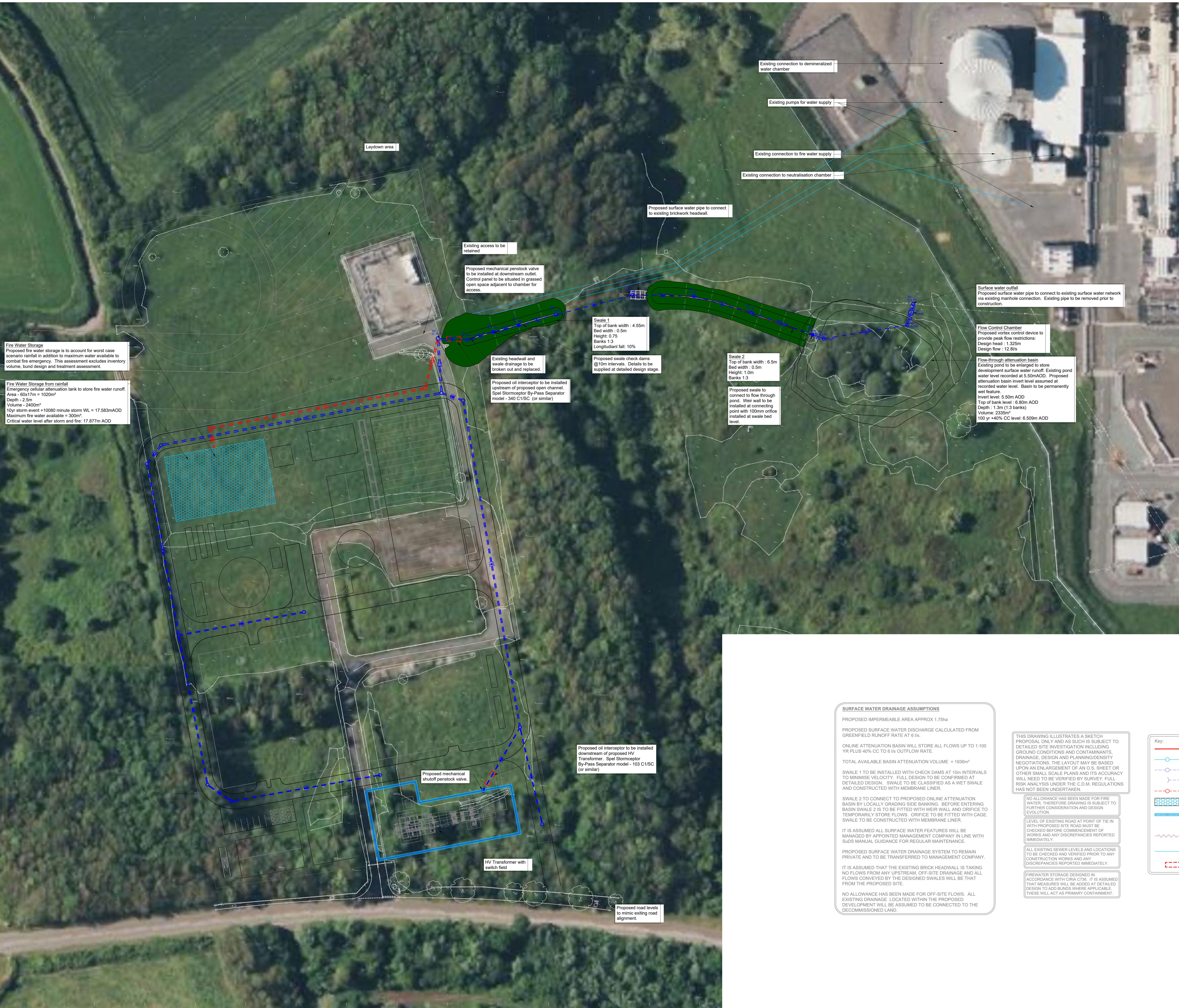




- Notes
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SURFACE WATER DRAINAGE ASSUMPTIONS

PROPOSED IMPERMEABLE AREA APPROX 1.75ha

PROPOSED SURFACE WATER DISCHARGE CALCULATED FROM GREENFIELD RUNOFF RATE AT 6 IN

ONLINE ATTENUATION BASIN WILL STORE ALL FLOWS UP TO 1:100 YR PLUS 40% CC TO 6 IN OUTFLOW RATE.

TOTAL AVAILABLE BASIN ATTENUATION VOLUME = 1936m³

SWALE 1 TO BE INSTALLED WITH CHECK DAMS AT 10m INTERVALS TO MINIMISE VELOCITY. FULL DESIGN TO BE CONFIRMED AT DETAILED DESIGN. SWALE TO BE CLASSIFIED AS A WET SWALE AND CONSTRUCTED WITH MEMBRANE LINER.

SWALE 2 TO CONNECT TO PROPOSED ONLINE ATTENUATION BASIN BY LOCALLY GRADING SIDE BANKING. BEFORE ENTERING BASIN SWALE 2 IS TO BE FITTED WITH WEIR WALL AND ORIFICE TO TEMPORARILY STORE FLOWS. ORIFICE TO BE FITTED WITH GATE. SWALE TO BE CONSTRUCTED WITH MEMBRANE LINER.

IT IS ASSUMED ALL SURFACE WATER FEATURES WILL BE MANAGED BY APPOINTED MANAGEMENT COMPANY IN LINE WITH SUDS MANUAL GUIDANCE FOR REGULAR MAINTENANCE.

PROPOSED SURFACE WATER DRAINAGE SYSTEM TO REMAIN PRIVATE AND TO BE TRANSFERRED TO MANAGEMENT COMPANY.

IT IS ASSUMED THAT THE EXISTING BRICK HEADWALL IS TAKING NO FLOWS FROM ANY UPSTREAM. OFF-SITE DRAINAGE AND ALL FLOWS CONVEYED BY THE DESIGNED SWALES WILL BE THAT FROM THE PROPOSED SITE.

NO ALLOWANCE HAS BEEN MADE FOR OFF-SITE FLOWS. ALL EXISTING DRAINAGE LOCATED WITHIN THE PROPOSED DEVELOPMENT WILL BE ASSUMED TO BE CONNECTED TO THE DECOMMISSIONED LAND.

THIS DRAWING ILLUSTRATES A SKETCH PROPOSAL ONLY AND AS SUCH IS SUBJECT TO DETAILED SITE INVESTIGATION INCLUDING GROUND CONDITIONS AND CONTAMINANTS, DRAINAGE, DESIGN AND PLANNING/DENSITY NEGOTIATIONS. THE LAYOUT MAY BE BASED UPON AN ENLARGEMENT OF AN O.S. SHEET OR OTHER SMALL SCALE PLANS AND ITS ACCURACY WILL NEED TO BE VERIFIED BY SURVEY. FULL RISK ANALYSIS UNDER THE C.D.M. REGULATIONS HAS NOT BEEN UNDERTAKEN.

NO ALLOWANCE HAS BEEN MADE FOR FIRE WATER. THEREFORE DRAWING IS SUBJECT TO FURTHER CONSIDERATION AND DESIGN EVOLUTION.

LEVEL OF EXISTING ROAD AT POINT OF TIE IN WITH PROPOSED SITE ROAD MUST BE CHECKED BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES REPORTED IMMEDIATELY.

ALL EXISTING SEWER LEVELS AND LOCATIONS TO BE CHECKED AND VERIFIED PRIOR TO ANY CONSTRUCTION WORKS AND ANY DISCREPANCIES REPORTED IMMEDIATELY.

FIREWATER STORAGE DESIGNED IN ACCORDANCE WITH CDM 076. IT IS ASSUMED THAT MEASURES WILL BE ADDED AT DETAILED DESIGN TO ADD BUND WHERE APPLICABLE. THESE WILL ACT AS PRIMARY CONTAINMENT.

Key:

- Site Boundary
- Existing Surface Water Sewer
- Proposed Surface Water Sewer
- Proposed Headwall
- Proposed Emergency Fire Water Sewer
- Attenuation tank
- Proposed circuit french drain connected with perforated pipes and inspection chambers
- Existing drainage connection to be removed
- Proposed emergency drainage connections
- Proposed oil interceptor

PD2	Drawing updated to suit revised layout.	JP	16.04.24
PV1	First issue	JP	05.04.24
Rev	Description	By	Clk Date



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Project Pembroke Power Station - Hydrogen Plant and Synchronous Condenser

Title Drainage Concept Layout - Hydrogen Plant

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