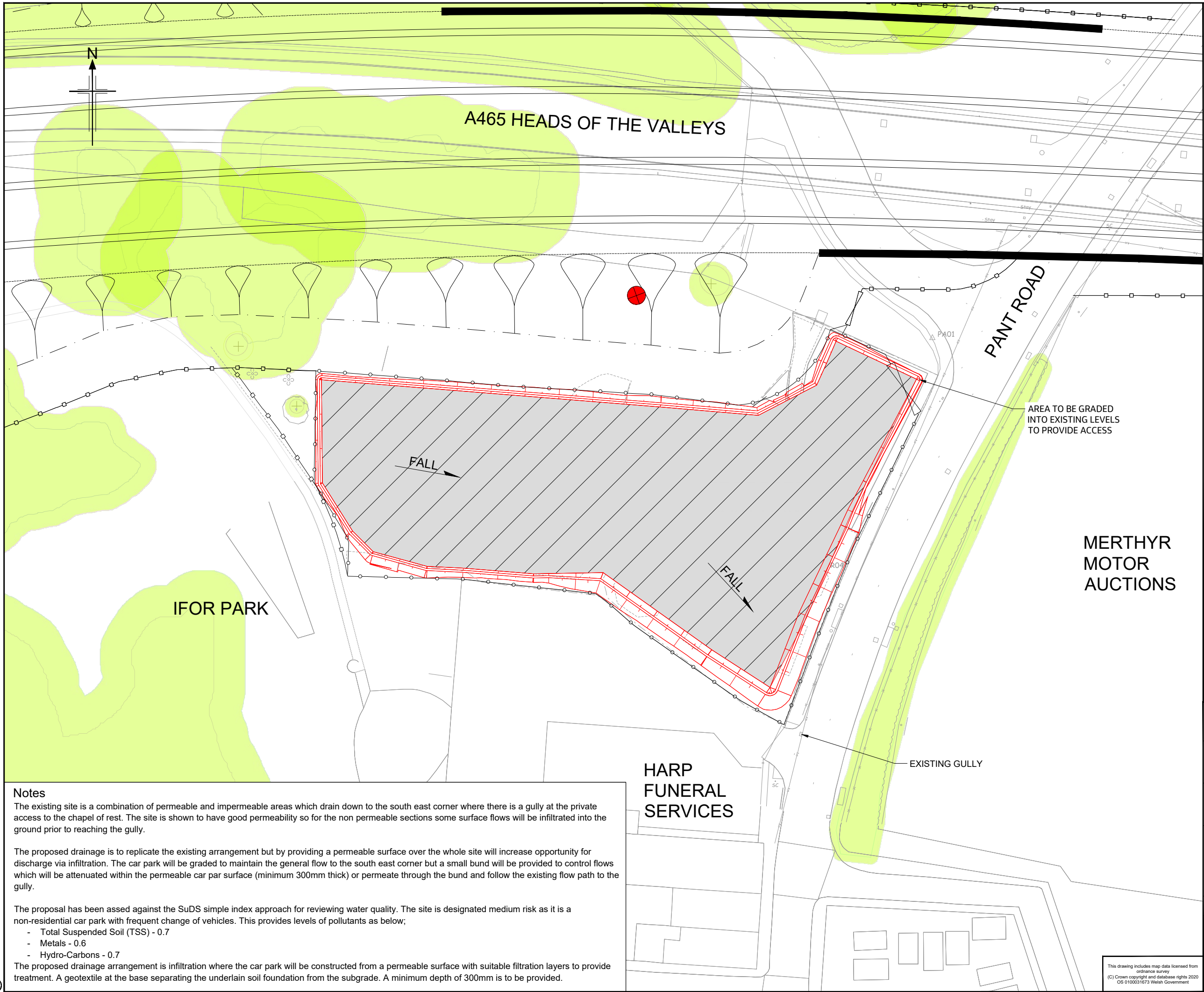
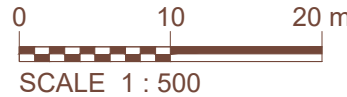


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Legend

- Temporary compound fencing (2.4m high PVC chain link)
- Highway fencing
- Proposed car park (unbound granular material)
- Borehole location 7266
- Tree and route protection area



ISSUE FOR PLANNING

| P0  | Aug 2020  | First Issue         | KL    | JP      | JP    | RT     |
|-----|-----------|---------------------|-------|---------|-------|--------|
| Rev | Rev. Date | Purpose of revision | Drawn | Checked | Rev'd | Appr'd |

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Client  
 Llywodraeth Cymru  
Welsh Government

Project  
**A465 SECTIONS 5 & 6**

Drawing title  
**PA10 -  
PROPOSED  
DRAINAGE PLAN**

Drawing status  
**FOR PLANNING**

|            |            |              |
|------------|------------|--------------|
| Scale      | 1:500 @ A3 | DO NOT SCALE |
| Jacobs No. | 2191100    | Rev          |
| Client no. |            | <b>P0</b>    |

Drawing number  
**B2191100-JAC-LSI-DR-HE-9400-1010**

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Notes

The existing site is a combination of permeable and impermeable areas which drain down to the south east corner where there is a gully at the private access to the chapel of rest. The site is shown to have good permeability so for the non permeable sections some surface flows will be infiltrated into the ground prior to reaching the gully.

The proposed drainage is to replicate the existing arrangement but by providing a permeable surface over the whole site will increase opportunity for discharge via infiltration. The car park will be graded to maintain the general flow to the south east corner but a small bund will be provided to control flows which will be attenuated within the permeable car par surface (minimum 300mm thick) or permeate through the bund and follow the existing flow path to the gully.

The proposal has been assed against the SuDS simple index approach for reviewing water quality. The site is designated medium risk as it is a non-residential car park with frequent change of vehicles. This provides levels of pollutants as below;

- Total Suspended Soil (TSS) - 0.7
- Metals - 0.6
- Hydro-Carbons - 0.7

The proposed drainage arrangement is infiltration where the car park will be constructed from a permeable surface with suitable filtration layers to provide treatment. A geotextile at the base separating the underlain soil foundation from the subgrade. A minimum depth of 300mm is to be provided.