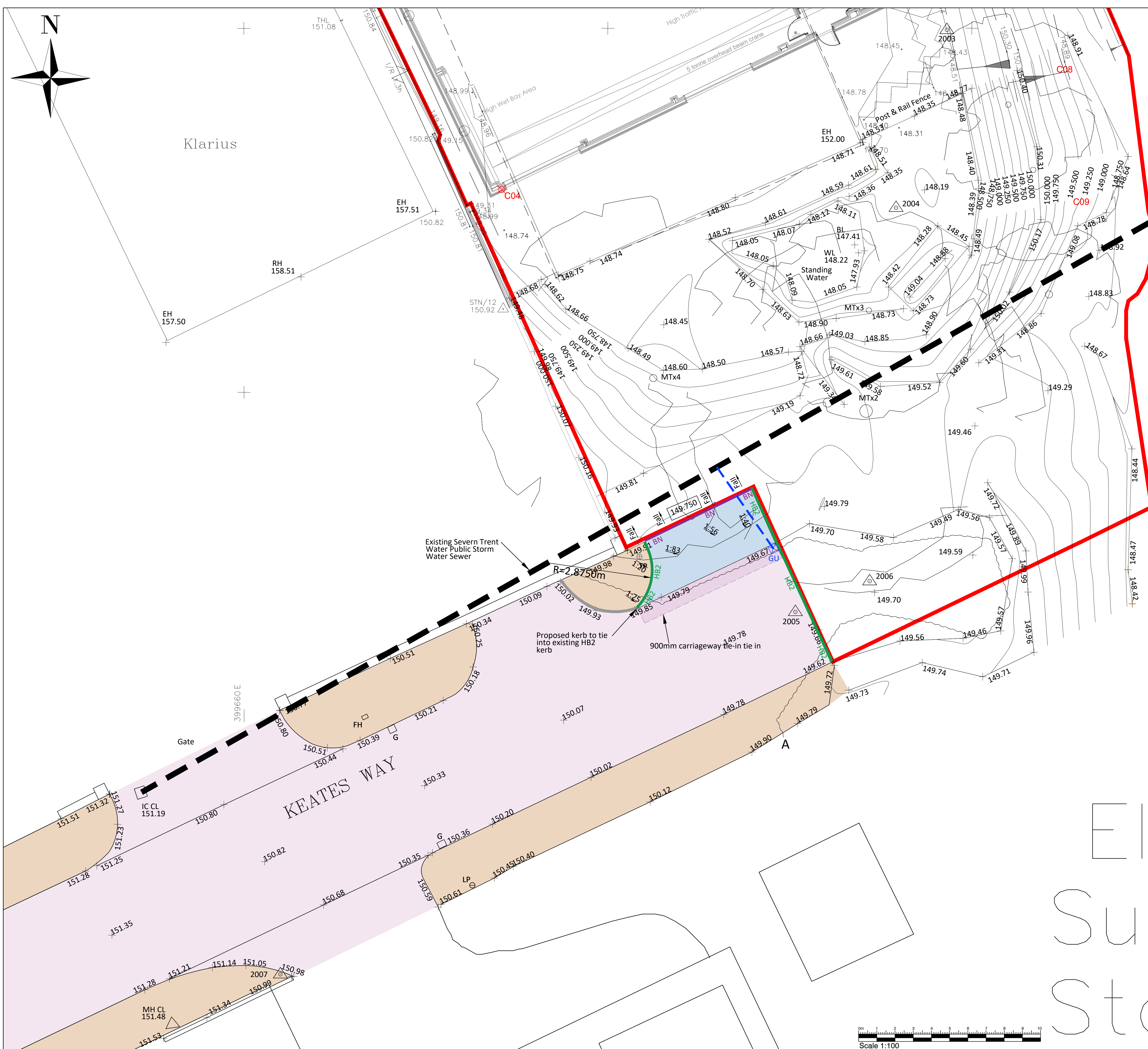




Asphalt Road Specification:
40mm Surface Course:
Hot Rolled Asphalt 50/100F surf 100/150 to BS EN 13108-4 (PD 6691) with PSV 50 and AAV 10 aggregate

60mm Binder Course:
AC20 dense bin 100/150 rec to BSEN13108-1 and the detailed requirements of D6691 Annex B including Table B11

100m Base Course:
AC32 dense base 100/150 to BSEN13108-1 and the detailed requirements of PD6691 Annex B including Table B11

150mm Sub-base:
Hardcore MOT Type 1 to MCHW Vol.1 clause 803 to be compacted in layers not exceeding 150mm

A plate bearing test giving a CBR of 15% is required on top of the capping layer and a CBR of 30% on top of the Sub-base layer.

It is assumed that this road will be used by cars only.

Any soft spots to be excavated and backfilled with MOT Type 1 compacted in layers not exceeding 150mm.

Sub-base is not designed to be trafficked by construction vehicles.

Frost Susceptibility:
Where the sub-grade is frost susceptible the sub-base thickness shall be increased to bring the total construction thickness to 450 mm. Where the sub-base thickness is above 200 mm a combination of W75 with type 1 or type 3 may be used, (Road planings to type 2 and containing at least 80% bituminous materials may used in lieu of types 1 or 3).

Table 1
The sub-base and capping thickness for all adoptable roads in Staffordshire County.

Design CBR %	Total thickness (nominal) mm	W Capping mm (minimum)	Type 1 Sub-base mm (maximum)
<2	750	600 (W150)	150
2 to 5	500	350 (W150)	150
5 to 10	225	0	225 mm sub-base laid in 2 layers (Max. single layer thickness 125mm)
> 15	150	0	150

Note:
The "Design CBR" must be take into account the type of material and its Plasticity Index as well as any in-situ CBR tests. If there is no PI testing carried, then a 600mm W150 capping shall be assumed.

Key

- Development site boundary
- Existing carriageway
- 900mm step to tie into the existing carriageway
- Extent of footpath to be remove
- Existing footway
- Proposed gully
- 150x125 Bullnosed Kerb with 20mm upstand
- 255x125 Half Battered Kerb with 125mm Upstand
- Direction of Fall
- Proposed boundary level
- Proposed road gully with 150mm outlet

General Notes

- All dimensions are in meters unless otherwise stated.
- This drawing must be read in conjunction with C2C Consulting relevant drawing no. S278 Legal Plan C2C XX XX M2 D, and S278 Site Clearance drawing no. C2C XX XX M2 D.
- This drawing based on Ordnance Survey produced Hewitt & Carr Architects. Their drawing no. AL(0)05, revision A dated March 22.
- The topographical survey plan produced by Geomatic Surveys Ltd. Their drawing no. 02777/Topo, revision A dated 28/01/22.
- Before work commences, the contractor shall liaise with all Statutory Authorities to determine the exact location of all apparatus and take all precautions deemed necessary to locate, protect and where necessary divert such equipment.
- All details and dimensions are to be checked by the Contractor prior to commencement of construction. Any discrepancies must be reported to C2C.
- It the contractor responsibility to shall check all dimensions and levels on site before any work commences.
- Setting out to be confirmed by the Architect.
- This drawing is for information purpose only. C2C accepts no responsibility or liability for setting out information. The Contractor must verify all setting out information on site before commencement of work.
- Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the contractor commence site work prior to such approval being given it is entirely at his own risk.

Important Notes

- A road gully proposed at the low point. The gully connection point to be to Existing STW SW Sewer.
- Where Kerbing is to be laid to a radius of 12m or less, then radius kerbs shall be used to radii shown in BSEN 1340:2003.
- Overlay to be increased with blacktop to 900mm to tie into existing carriageway.

Highways Notes

Tie into Existing Road

- Section of existing footpath to be removed as shown in hatched dotted area on drawing 220530-C2C-XX-XX-C-703 - S278 site Clearance.
- Sub-base and granular fill material shall not be laid directly onto existing bituminous materials. Affected bituminous layers shall be excavated and the resultant void filled with the appropriate free draining granular material.
- Bond coat to douse 920 shall be applied to all previously trafficked surfaces which are to be overlay.
- The sub-base and capping thickness to be for all adoptable roads in Staffordshire County.
- Pavement tie in details to be considered indicative only with the details to be confirm when the existing pavement composition is confirmed.
- Exact locations of tie-ins to be agreed with the Supervisor.
- Amount of cut-back to existing foundation to be agreed with the Supervisor on site.

SEE TOWER SURVEYS UTILITIES LTD DRAWING REFERENCE TSU-22-329_101 FOR EXISTING BELOW GROUND SERVICES. CONTRACTOR TO LIAISE WITH UTILITY PROVIDERS TO ENQUIRE IF EXISTING SERVICES ARE TO BE LOWERED TO ALLOW FOR REDUCTION IN FINISHED ACCESS LEVELS. ALL SERVICE DEPTHS SHOWN ARE PRIOR TO CONSTRUCTION. UTILITY PROVIDERS MAY REQUIRE EXISTING SERVICES TO BE LOWERED OR CONCRETE PROTECTED.

P01	Preliminary Issue.	RNL	SI	25/04/23	
REV	AMENDMENT	BY	CHK	DATE	
PROJECT EXECUTION CLASS:					
All materials supplied in relations to those specified on this drawing are to be CE marked in accordance with the European Union Declaration of conformity.					
DRAWING STATUS					
PRELIMINARY					
CLIENT					
Vulcan Refectories					
PROJECT					
Replacement Commercial Unit					
DRAWING TITLE					
S278 Engineering Layout					
SHEET SIZE	SCALE	DATE	DRAWN	CHECKED	STATUS
A1	1/100	24/03/2023	SI/RNL	SI	S1
PROJECT No.	DRAWING No.				
220530	C2C - XX - XX - M2 - D	703	P01		