PROPOSED LEVELS

KEY

(solid green line)	SITE BOUNDARY
EB 0.0m	EXPOSED BRICKWORK
TK 0.0m	TANKING
RH 0.0m	RETAINED HEIGHT
ES#	EXTERNAL STEPS
	MAJOR CONTOUR
	MINOR CONTOUR
1:21	PROPOSED GRADIENT
46.872	EXISTING LEVELS
45.950	PROPOSED LEVELS

GENERAL SAFETY NOTES:

1. WHERE THE BASE (ROAD BASE) HAS BEEN USED AS A TEMPORARY RUNNING SURFACE DURING THE CONTRACT IT SHALL BE THOROUGHLY CLEANED AND POWER WASHED AS NECESSARY. AFTER DRYING AND IMMEDIATELY BEFORE THE BINDER COURSE IS LAID A TACK COAT OF BITUMEN EMULSION CLASS A1-40 OR K1-40 TO BS434 SHALL BE APPLIED AT A RATE OF 0.35-0.55 LITRES/SQ METER.
2. ALL RADIUS KERBS WITH A RADIUS OF 12m OR LESS SHALL BE FORMED WITH PROPRIETARY RADIUS KERBS.

HEALTH & SAFETY:

1. CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

2. CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE
3. THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
4. CONNECTIONS TO EXISTING SEWERS TO BE MADE BY APPROVED CONTRACTOR ONLY.
5. CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WEILS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
6. UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH BARRIER.

PIPES & CABLES

7. CONTRACTOR TO OBTAIN ALL SERVICE RECORDS PRIOR TO WORKS COMMENCING.
8. SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION/FILL

9. CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
10. CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
11. CONTRACTOR TO REFER TO GROUND INVESTIGATION REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.

DESIGN NOTES:

1. ALL WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
   - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB)
   - SPECIFICATION FOR HIGHWAY WORKS (SHW)
   - LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
2. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHOULD INVESTIGATE AND LOCATE AS NECESSARY ANY STATUTORY UNDERTAKERS EQUIPMENT WITHIN THE NEW ACCESS AND DISCUSS REQUIREMENTS FOR LOWERING/DIVERSION AND PROTECTION WITH THE RELEVANT UNDERTAKER.
3. ALL WORKS WITHIN THE PUBLIC HIGHWAY TO MEET LOCAL AUTHORITY REQUIREMENTS. CONTRACTOR TO APPLY FOR ROAD OPENING NOTICES ETC AS REQUIRED.
4. CBR VALUE NOT AVAILABLE. ROAD CONSTRUCTION DETAIL SUBJECT TO CONFIRMATION OF CBR VALUES. CONTRACTOR TO ALLOW FOR LAB TESTS TO BE UNDERTAKEN IN AGREEMENT WITH LOCAL AUTHORITY HIGHWAY ENGINEER PRIOR TO WORKS COMMENCING.
5. PROPOSED LEVELS HAVE BEEN BASED ON THE EXISTING TOPOGRAPHICAL SURVEY PROVIDED BY THE CLIENT
6. PROPOSED DRAWING BASED ON THE LATEST ARCHITECTURAL LAYOUT PROVIDED BY THE CLIENT.
7. SLOPES GREATER THAN 1 IN 6 MAY REQUIRE STABILISATION. GEOTECHNICAL ENGINEER TO BE CONTACTED TO CONFIRM REQUIREMENTS

DRAINAGE NOTES:

1. ALL PIPES 100Ø UNLESS OTHERWISE STATED.
2. ALL PRIVATE TO ADOPTABLE CONNECTIONS 150Ø UNLESS OTHERWISE STATED.
3. ALL PPIC'S IN TRAFFICKED AREAS TO HAVE D400 COVERS & CONCRETE SURROUND.
4. ALL INTERNAL PLOT DRAINAGE REQUIRES CONFIRMATION PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO CONFIRM MH COVER & INVERT LEVEL OF PROPOSED CONNECTION POINT PRIOR TO CONSTRUCTION. ANY VARIATION TO BE REPORTED TO ENGINEER.
6. THE INVERT LEVEL OF THE EXISTING SEWERS ARE TO BE VERIFIED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS. ANY DISCREPANCY MUST BE NOTIFIED TO THE ENGINEER.
7. EXISTING MANHOLES TO BE MODIFIED TO ACCOMMODATE THE PROPOSED LATERAL CONNECTIONS. CONTRACTOR TO APPLY TO THE WATER AUTHORITY FOR THE SECTION 106 APPROVAL TO MAKE THE CONNECTIONS. PIPES ARE TO BE LAID WITH COMMON INVERT LEVELS.
8. ALL STUB PIPES ARE TO BE CAPPED.
9. ALL PIPES CONNECTIONS TO BE SOFFIT TO SOFFIT UNLESS STATED OTHERWISE. REFER TO MANHOLE SCHEDULE FOR FURTHER INFORMATION.
10. ALL PROPOSED FILTER DRAINS TO CONNECT BACK INTO PLOT DRAINAGE.
11. STONE FILLED LAND DRAINS REQUIRED IN BACK GARDENS WHERE FALLING TOWARDS PROPERTY
12. FLOOD DEFENSE WORKS APPLICATION OR EQUIVALENT TO BE MADE TO THE LOCAL AUTHORITY PRIOR TO CARRYING OUT ANY WORKS TO THE EXISTING WATERCOURSE.

PIPE MATERIALS

- **150-225Ø: UPVC PIPES TO BE BSI KITEMARKED AND CERTIFIED TO WIS 4-35-01 & BS/EN13476.**
- **300-1350Ø: CONCRETE PIPES TO BE BSI KITEMARKED, CLASS 120 CONCRETE & CERTIFIED TO BS5911 & 1916.**

SUBJECT TO LOCAL AUTHORITY &
WATER AUTHORITY APPROVAL

DRAINAGE SUMMARY:

EXISTING DRAINAGE

- THERE IS A COMBINED SEWER CROSSING SITE. SEWER SIZE AND INVERT LEVELS ARE TO BE CONFIRMED

SURFACE WATER

- SURFACE WATER DISCHARGE FROM SITE IS RESTRICTED TO QBAR GREENFIELD EQUIVALENT OF 31.9L/S
- SURFACE WATER FROM SITE IS TO DISCHARGE INTO THE EXISTING WATERCOURSE ALONG SOUTHERN BOUNDARY OF SITE AT RESTRICTED RATE.
- RUNOFF FROM NORTHERN PARTS OF SITE IS TO DISCHARGE INTO BASIN 1 AND BASIN 2 WHERE IT IS TO BE RESTRICTED TO 3.5L/S IN A 100 YEAR + 40% CLIMATE CHANGE STORM EVENT.
- RESTRICTED DISCHARGE FROM BASIN 1 AND BASIN 2 AND RUNOFF FROM SOUTHERN SITE IS TO DISCHARGE INTO BASIN 3 WHERE IT IS TO BE RESTRICTE TO QBAR AND DISCHARGE INTO WATERCOURSE
- SURFACE WATER ATTENUATION FOR ALL STORM EVENTS UP TO AND INCLUDING 100YR STORM EVENT +40% CLIMATE CHANGE AND 10% CREEP IS TO BE PROVIDED VIA 3 NO. BASINS.
- SOME SURFACE WATER DRAINS ARE CROSSING COMBINED SEWER ON SITE WHICH MAY RESULT IN POTENTIAL CLASHES
- ALL MAIN DRAINAGE TO BE OFFERED FOR ADOPTION VIA S104 AGREEMENT
- ALL DRAINAGE SUBJECT TO DETAILED DESIGN

FOUL WATER

- FOUL WATER FORM SITE HAS BEEN SPLIT INTO MULTIPLE CATCHMENTS AND DISCHARGES TO THE EXISTING COMBINED SEWER CROSSING THE SITE VIA MULTIPLE CONNECTIONS.
- ALL PROPOSED CONNECTIONS HAVE BEEN MADE INTO EXISTING MANHOLES, EXCEPT FOR ONE CONNECTION TO THE SOUTH OF SITE WHERE A NEW MANHOLE IS PROPOSED ON THE COMBINED SEWER.
- EXISTING SEWER SIZE AND INVERT LEVELS ARE TO BE CONFRIMED

DRAINAGE MAY BE SUBJECT TO CHANEG UPON CONFIRMATION OF EXISTING COMBINED SEWER SIZE AND INVERT LEVELS

DESIGN LEVELS ARE PRELIMINARY AND MAY BE SUBJECT TO CHANGE DURING DETAILED DESIGN + / - 500mm

Date	Revisions	Drawn	Checked	Rev
18.03.2026	AMENDED TO SUIT CLIENT COMMENTS	NA	AE	3
22/10/2025	EXISTING LEVELS ADDED TO SITE BOUNDARY	SR	AE	2
07/10/2025	FIRST ISSUE	NA	AE	1

Dwg Status: SCHEMATIC

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CONSULTING ENGINEERS

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Client: VISTRY GROUP

Project: SHAW LANE CARLTON

Title: PROPOSED LEVELS OVERALL LAYOUT

DO NOT SCALE	Scale @ A0: 1:500	Drawn NA	Checked AE	Date 06.10.2025
Job No 24307		Dwg No D100		Rev 3