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DRAINAGE NOTES:

- Do not scale.
- Refer to all other Project Drawings and supporting notes.
- All adoptable drainage works to be constructed as detailed in Design and Construction Guidance or as stipulated in the Water Authorities Addendum.
- All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
- Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
- The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
- All drainage networks to comply with BS EN 12434, and be stamped with BS Kitemark. Covers to suit loading as below:
 - Carriageways and Roads - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A15
- All sewer pipes, up to, and including 600mm are to be unvented clay or PVC-U to BS EN 12434 and BS EN 1444 respectively. All sewer pipes 675mm diameter and above to be concrete pipes to BS EN 12434.
- All drainage shall be installed and tested strictly in accordance with the Manufacturer's printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
- All bedding shall be Class 5 unless noted otherwise.
- All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
- Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas, with less than 900mm of cover shall be similarly treated.
- Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
- The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
- All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade CA/C20 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
- All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
- All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
- All private drains to be 100mm diameter unless otherwise stated.
- All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building Regulations, together with NBS Standards Chapter 5.3 and BS8302.
- Where pipes pass through footings, retaining or screen walls, inlets to be provided over drains.
- Where inverts are less than 0.6m deep inspection chambers (min dia. 1200mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc to be used and sized in accordance with Table 11 of Document H of the Building Regulations >0.6m to invert min DN500, >0.6m to invert min DN475.
- All gullies connected direct to drains to be roddable.
- Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
- Unless noted otherwise SW IC's and RE's to be 0.6m below DPC level, SW IC's and RE's to be 0.45m.
- Adequate precautions in accordance with Approved Document H and manufacturer's recommendations to be taken to protect drains (particularly plastic) at shallow depths.
- Catchings to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
- Trees and shrubs of a large size or heavy canopy with moderate or high water demand must not be planted within any sewer easement.
- Gullies within and adjacent to area of site works to be suction cleaned at commencement and completion of works.
- 1m deep root barrier of an approved type to be installed vertically along the back edge of all areas of footway/demarcation to protect from both proposed and future plantations.
- Foul water IC's to be 750mm below FFL, unless noted otherwise.
- Surface water IC's to be laid 600mm below external level, unless noted otherwise.
- Rodding eye's to be laid 450mm below external level, unless noted otherwise.

KEY

- Proposed adoptable sewer & Man
- Highway gully and 150mm connection
- Brickwork headwall
- Proposed Rain Garden Tree Pit
- Link road drainage area
- R10 catchment area
- R14a catchment area
- R14b catchment area

P9	R9.25	ADDITION OF R10 ACCESS ROUTES	RD	RF
P9	R9.26	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.27	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.28	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.29	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.30	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.31	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.32	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.33	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.34	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.35	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.36	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.37	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.38	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.39	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.40	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.41	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.42	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.43	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.44	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.45	AMENDED KERELINE AND GULLY POSITION	RD	RF
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P9	R9.77	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.78	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.79	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.80	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.81	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.82	AMENDED KERELINE AND GULLY POSITION	RD	RF
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P9	R9.96	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.97	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.98	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.99	AMENDED KERELINE AND GULLY POSITION	RD	RF
P9	R9.100	AMENDED KERELINE AND GULLY POSITION	RD	RF

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KIER VENTURES
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Project: SOUTH WOKINGHAM SDL
R10-R14 LINK ROAD

Title: SURFACE WATER
CATCHMENT PLAN

Status: Issue

Scale: 1:500 @ A0	Date: JUN 2023	Project: TR	Checked: KW
Drawn by: A389-LR-5002	Reviewed: P9		