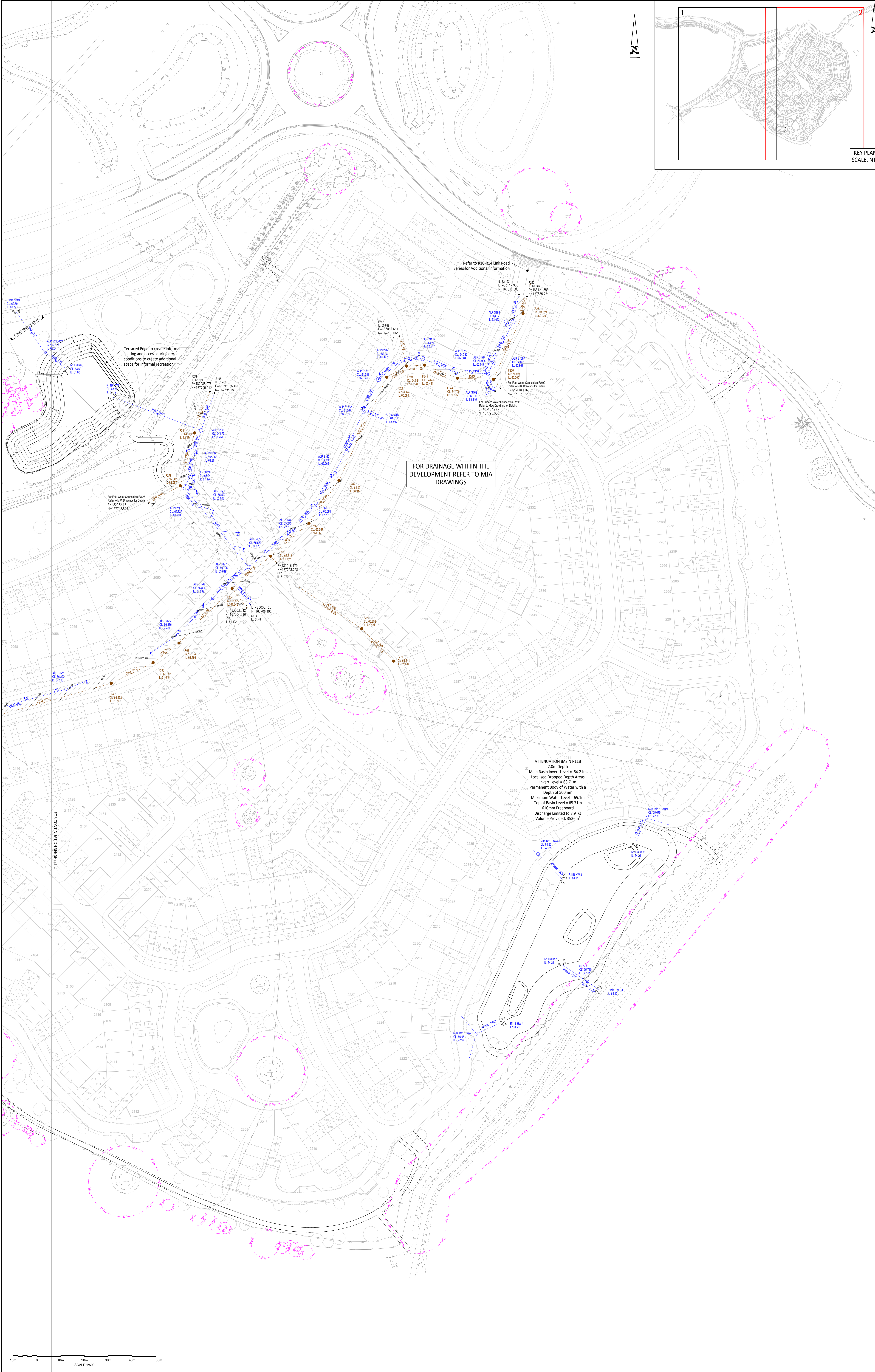




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DRAINAGE NOTES:

1. Do not scale.
2. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, Specification and any structural, Geotechnical or other specialist document provided.
3. Site layout shown for context only, refer to other project drawings for details.
4. All adoptable drainage works to be constructed as detailed in design and construction guidance or as stipulated in the water authorities' addendum.
5. All public sewers are to be the subject of a section 104 agreement of the water industry act 1992.
6. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
7. 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.
8. All drainage networks to comply with BS EN 242, and be stamped with his itemmark. covers to suit loading as below:
carriageways and roads - 4000
driveways and verges - 2500
footways and pedestrian areas - 1250
gardens/landscaping - 450
9. All sewer pipes, up to and including 225mm are to be verified clay to BS EN 252. All sewer pipes 300mm diameter and above to be concrete pipes to BS EN 12922. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN 1228.
10. All drainage shall be installed and tested strictly in accordance with the manufacturer's printed instructions, to BS 752, to BS 5552, local water authority requirements and the building regulations.
11. All bedding shall be class 5 unless noted otherwise.
12. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted type 3 granular sub-base material.
13. Draining laid beneath roads and areas of vehicular access (for 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.
14. Chambers with culverting pipes greater than 600mm diameter shall be fitted with guard bars, safety chairs or other approved safety devices.
15. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
16. All sewers to be abandoned shall be surveyed to identify any lateral connections that are still live with any found to be reported to the engineer.
17. 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 other standards chapter 5.3 and BS 8303.
18. Where pipes pass through footings, retaining or screen walls, inlets to be provided over drains.
19. Where inverts are less than 3.0m deep inspection chambers (min dia. 150mm) or access fittings (225 x 150mm) to be used, otherwise proprietary plastic, brick or pcc. It to be used and sized in accordance with table 11 of document h of the building regulations (to 6m to invert min dia 300, to 6m to invert min dia 450).
20. Where required a deep root barrier of an approved type to be installed vertically along the back edging berth of all areas of footway/drainage to protect from both proposed and future plantations.
21. Construction details subject to refinement through detailed design/technical approval process.

ALL PIPE BEDDING TO BE CLASS 'S' GRANULAR SURROUND UNLESS NOTED OTHERWISE ON THE DRAWING

Manhole cover levels are derived from a 3D digital terrain model, final cover levels to suit finished surfaces on site.

Manhole covers to be located wholly within one surface level or hard standing/road. Manhole covers are to be fully accessible to users.

GENERAL KEY:

- Tree root protection area
- Proposed embankment - no steeper than 1:3 slopes

DRAINAGE KEY:

- Proposed headwall
- Bagwork headwall
- 3000mm Culvert Pipe
- Surface water pipe
- Surface water chamber
- Flow control chamber
- Surface water backstop
- ACO Multidrain M1000 Channel Drain or similar approved
- Gully and connection
- Rain garden tree pit and outfall
- Foul water pipe
- Foul water chamber

ATTENUATION BASIN R118
2.0m Depth
Main Basin Invert Level = 64.21m
Localised Dropped Depth Areas
Invert Level = 63.71m
Permanent Body of Water with a Depth of 500mm
Maximum Water Level = 65.1m
Top of Basin Level = 65.71m
610mm Freeboard
Discharge Limited to 8.9 l/s
Volume Provided: 3536m³

No.	Date	Description	Drawn	Checked
A	03/22	FIRST ISSUE	JAS	RF

ABLEY LETCHFORD PARTNERSHIP
Consulting Engineers

3 Tealgate, Charnham Park
Hungerford, Berkshire RG17 0YT
www.abley-leitchford.co.uk Tel: 01488 684390

KIER PROPERTY DEVELOPMENTS LIMITED

Project:
**SOUTH WOKINGHAM SDL
PHASE 2B R11 RESERVED
MATTERS APPLICATION**

File:
**DRAINAGE LAYOUT
SHEET 2**

Status:

Scale	Date	Drawn	Checked
1:500 @ A0	MARCH 2025	JJS	RF

Drawing No:
A389-R11-RM-502

Project:
A