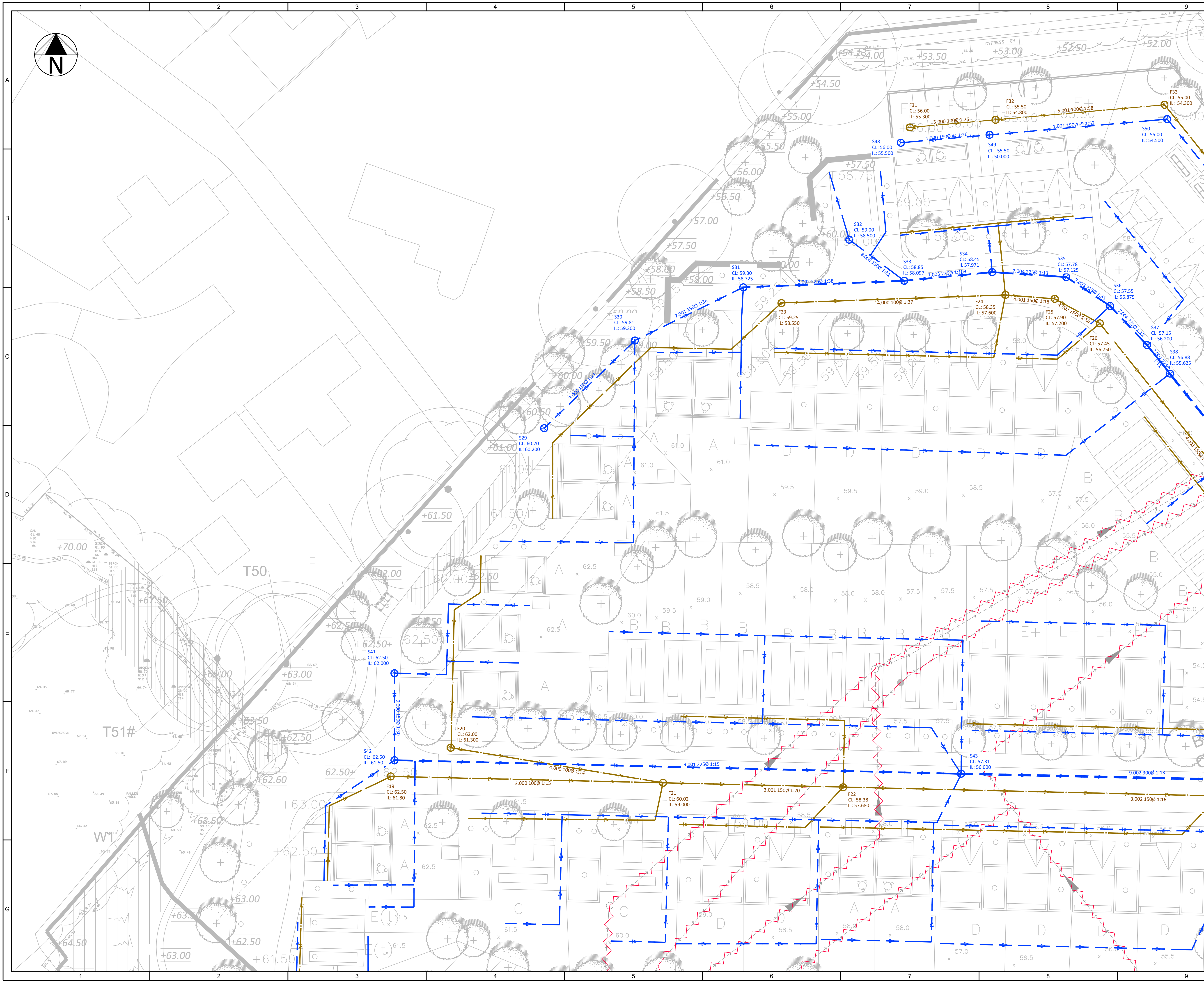


Appendix I

Drainage Strategy Layout



KEY

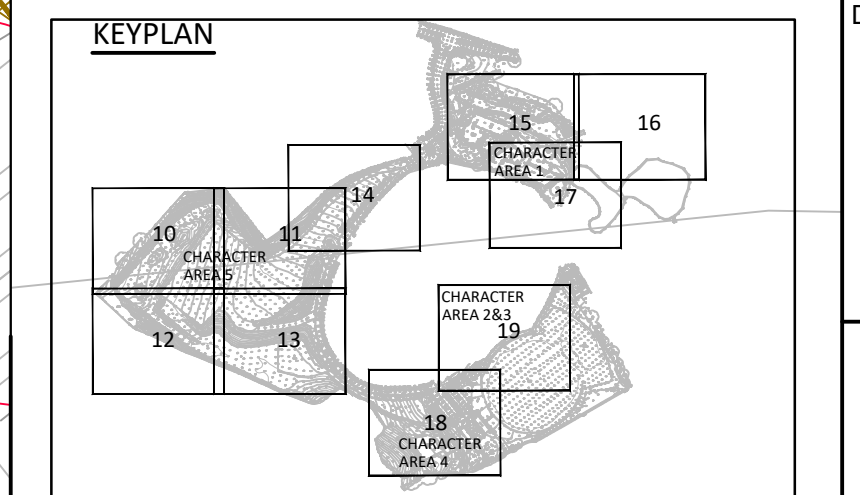
EXISTING DRAINAGE

- EXISTING SURFACE WATER
- EXISTING FOUL WATER SEWER PRIVATE SW DRAIN
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING WATERCOURSE TO BE RETAINED

PROPOSED PRIVATE DRAINAGE

- SURFACE WATER DRAIN/SEWER
- SURFACE WATER CHAMBER
- DIVERTED CULVERTED WATERCOURSE
- DIVERTED WATERCOURSE INSPECTION CHAMBER
- PERMEABLE PAVING
- EARTHWORKS
- FOUL WATER DRAIN/SEWER
- FOUL WATER CHAMBER
- CELLWEB CONSTRUCTION
- GEOSYTHETICS TURFMESH GRASS PROTECTION OR SIMILAR APPROVED
- GREEN ROOF
- INFILTRATING FILTER STRIP
- PROPOSED DIVERTED WATERCOURSE

- NOTES:**
1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
 2. EXISTING SERVICES TO BE IDENTIFIED AND MARKED ON SITE PRIOR TO COMMENCEMENT & ARRANGE FOR ANY NECESSARY PROTECTION, DIVERSION/LOWERING WORKS AS REQUIRED.
 3. ALL SURFACE PRIVATE DRAINAGE PIPES TO BE 100mm DIAMETER UNLESS OTHERWISE STATED WITH A MIN GRADIENT OF 1:100 UNLESS OTHERWISE STATED.
 4. PROPOSED FINISHED LEVELS TO BE DESIGNED BY OTHERS. AS A RESULT ALL PROPOSED COVER LEVELS & INVERT LEVELS SHOWN ARE TO BE REVIEWED IN LINE WITH THE PROPOSED EXTERNAL WORKS PLAN PRODUCED BY OTHERS.
 5. ALL DRAINAGE WORKS TO BE CONSTRUCTED FROM THE OUTFALL TOWARDS THE HEAD OF THE RUN TO ENSURE THE OUTFALL CAN BE ACHIEVED.
 6. DRAINAGE SHOWN IS PRELIMINARY AND SUBJECT TO DETAILED DESIGN.
 7. ALL RWP AND SVP SHOWN INDICATIVELY ONLY AND SUBJECT TO DETAILED DESIGN.



D	UPDATED ISSUE FOLLOWING CLIENT COMMENTS	23/06/23	RIP	JE
C	DRAINAGE LAYOUT UPDATED IN ACCORDANCE WITH ARCHITECTS SITE PLAN	21/06/23	RIP	JE
B	DRAINAGE LAYOUT UPDATED TO SUIT REVISED SITE LAYOUT	30/08/22	NSD	JE
A	FIRST ISSUE	01/08/22	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:

CLIENT: LDA/HCCC

ARCHITECT:

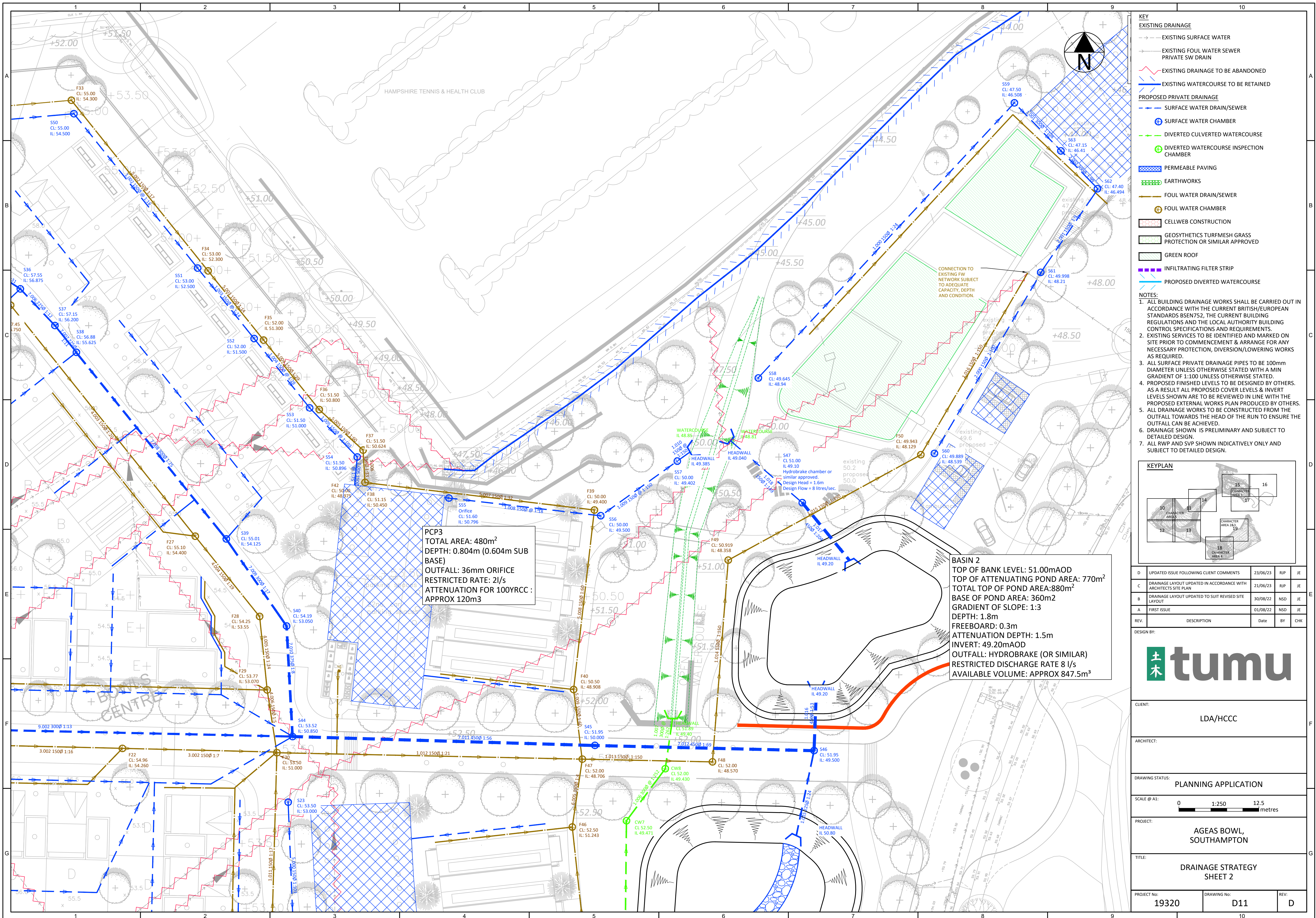
DRAWING STATUS: **PLANNING APPLICATION**

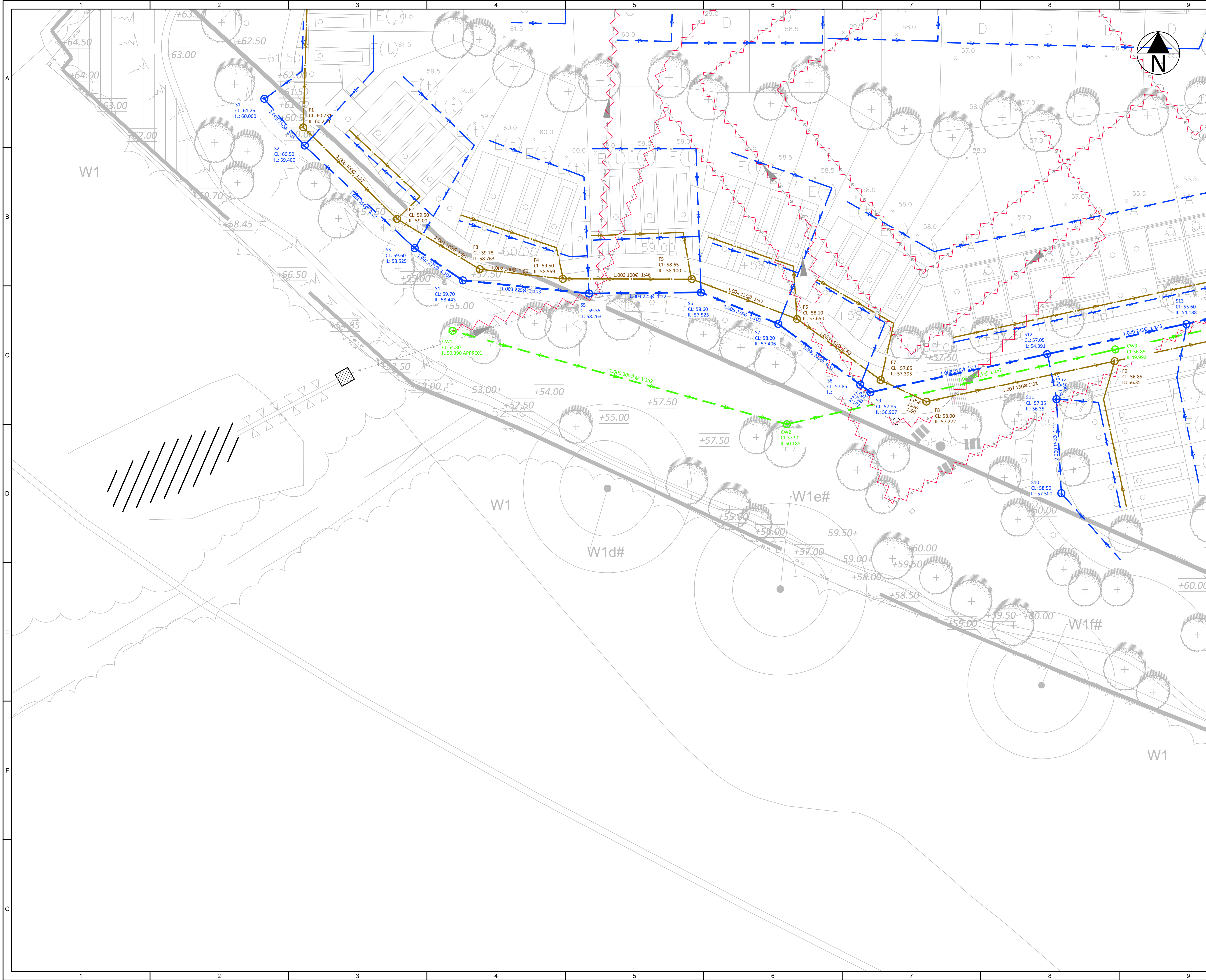
SCALE @ A1: 0 1:250 12.5 metres

PROJECT: **AGEAS BOWL, SOUTHAMPTON**

TITLE: **DRAINAGE STRATEGY SHEET 1**

PROJECT No:	DRAWING No:	REV:
19320	D10	D





KEY

EXISTING DRAINAGE

- EXISTING SURFACE WATER
- EXISTING FOUL WATER SEWER PRIVATE SW DRAIN
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING WATERCOURSE TO BE RETAINED

PROPOSED PRIVATE DRAINAGE

- SURFACE WATER DRAIN/SEWER
- ⊕ SURFACE WATER CHAMBER
- DIVERTED CULVERTED WATERCOURSE
- ⊕ DIVERTED WATERCOURSE INSPECTION CHAMBER

PERMEABLE PAVING

EARTHWORKS

FOUL WATER DRAIN/SEWER

FOUL WATER CHAMBER

CELLWEB CONSTRUCTION

GEOSYNTHETICS TURFMESH GRASS PROTECTION OR SIMILAR APPROVED

GREEN ROOF

INFILTRATING FILTER STRIP

PROPOSED DIVERTED WATERCOURSE

NOTES:

- ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
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- ALL DRAINAGE WORKS TO BE CONSTRUCTED FROM THE OUTFALL TOWARDS THE HEAD OF THE RUN TO ENSURE THE OUTFALL CAN BE ACHIEVED.
- DRAINAGE SHOWN IS PRELIMINARY AND SUBJECT TO DETAILED DESIGN.
- ALL RWP AND SVP SHOWN INDICATIVELY ONLY AND SUBJECT TO DETAILED DESIGN.

KEYPLAN

D	UPDATED ISSUE FOLLOWING CLIENT COMMENTS	23/06/23	RIP	JE
C	DRAINAGE LAYOUT UPDATED IN ACCORDANCE WITH ARCHITECTS SITE PLAN	21/06/23	RIP	JE
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A	FIRST ISSUE	01/08/22	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:

CLIENT:

LDA/HCCC

ARCHITECT:

DRAWING STATUS:

PLANNING APPLICATION

SCALE @ A1:

0 1:250 12.5 metres

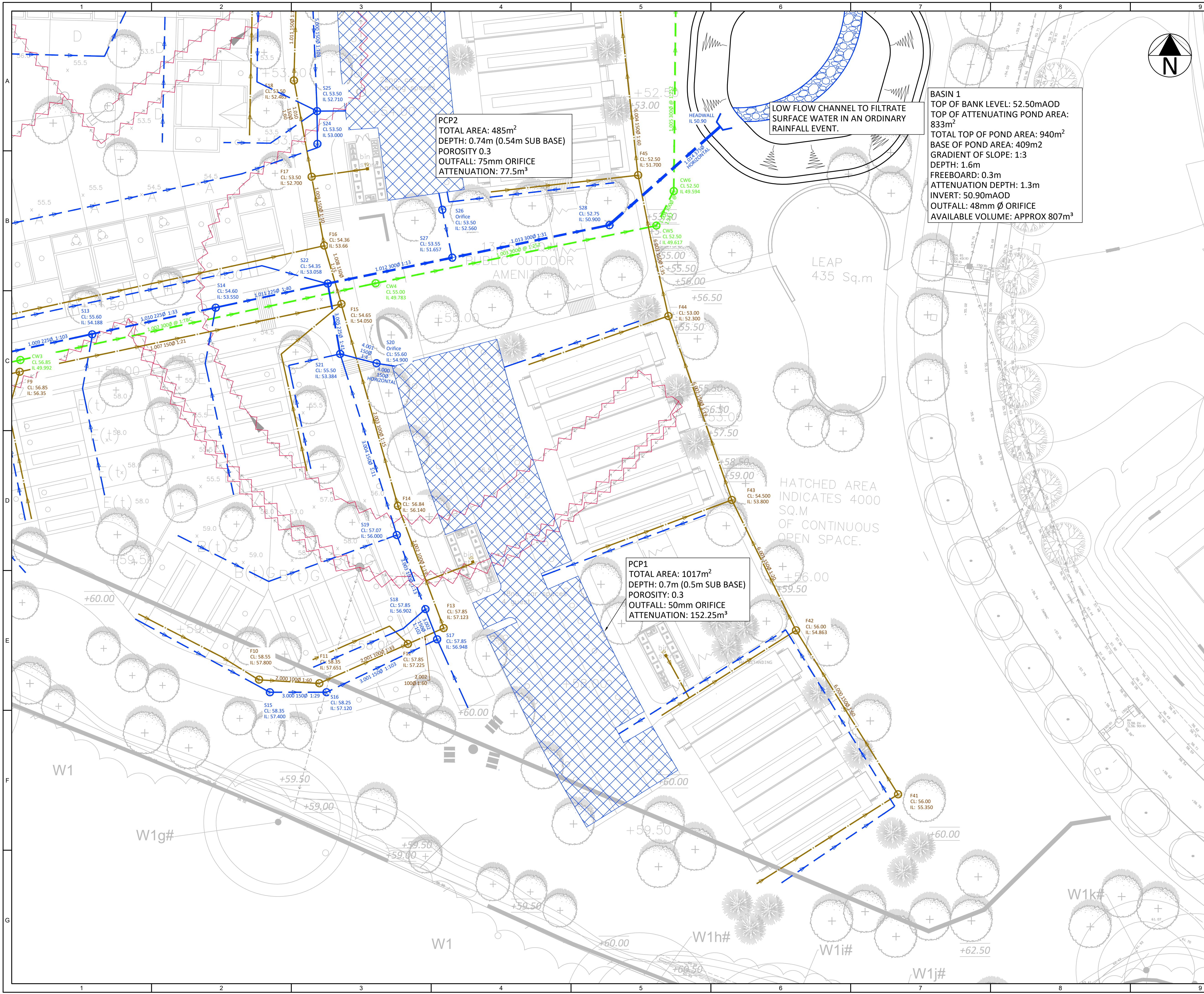
PROJECT:

AGEAS BOWL, SOUTHAMPTON

TITLE:

DRAINAGE STRATEGY SHEET 3

PROJECT No:	DRAWING No:	REV:
19320	D12	D



PCP2
TOTAL AREA: 485m²
DEPTH: 0.74m (0.54m SUB BASE)
POROSITY 0.3
OUTFALL: 75mm ORIFICE
ATTENUATION: 77.5m³

LOW FLOW CHANNEL TO FILTRATE
SURFACE WATER IN AN ORDINARY
RAINFALL EVENT.

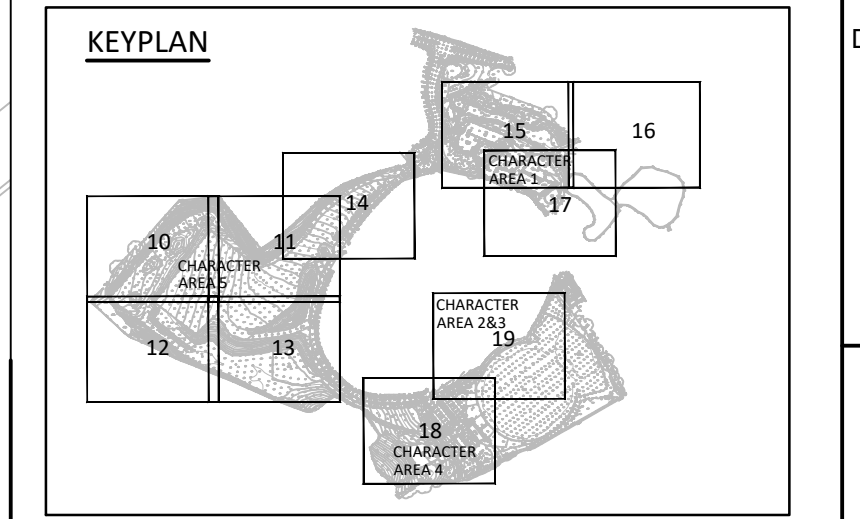
BASIN 1
TOP OF BANK LEVEL: 52.50mAOD
TOP OF ATTENUATING POND AREA:
833m²
TOTAL TOP OF POND AREA: 940m²
BASE OF POND AREA: 409m²
GRADIENT OF SLOPE: 1:3
DEPTH: 1.6m
FREEBOARD: 0.3m
ATTENUATION DEPTH: 1.3m
INVERT: 50.90mAOD
OUTFALL: 48mm Ø ORIFICE
AVAILABLE VOLUME: APPROX 807m³

PCP1
TOTAL AREA: 1017m²
DEPTH: 0.7m (0.5m SUB BASE)
POROSITY: 0.3
OUTFALL: 50mm ORIFICE
ATTENUATION: 152.25m³

HATCHED AREA
INDICATES 4000
SQ.M
OF CONTINUOUS
OPEN SPACE.

- KEY**
- EXISTING DRAINAGE
 - EXISTING SURFACE WATER
 - EXISTING FOUL WATER SEWER
 - PRIVATE SW DRAIN
 - EXISTING DRAINAGE TO BE ABANDONED
 - EXISTING WATERCOURSE TO BE RETAINED
 - PROPOSED PRIVATE DRAINAGE
 - SURFACE WATER DRAIN/SEWER
 - SURFACE WATER CHAMBER
 - DIVERTED CULVERTED WATERCOURSE
 - DIVERTED WATERCOURSE INSPECTION CHAMBER
 - PERMEABLE PAVING
 - EARTHWORKS
 - FOUL WATER DRAIN/SEWER
 - FOUL WATER CHAMBER
 - CELLWEB CONSTRUCTION
 - GEOSYTHETICS TURFMESH GRASS PROTECTION OR SIMILAR APPROVED
 - GREEN ROOF
 - INFILTRATING FILTER STRIP
 - PROPOSED DIVERTED WATERCOURSE

- NOTES:**
1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
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 4. PROPOSED FINISHED LEVELS TO BE DESIGNED BY OTHERS. AS A RESULT ALL PROPOSED COVER LEVELS & INVERT LEVELS SHOWN ARE TO BE REVIEWED IN LINE WITH THE PROPOSED EXTERNAL WORKS PLAN PRODUCED BY OTHERS.
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A	FIRST ISSUE	01/08/22	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK



CLIENT: LDA/HCCC

ARCHITECT:

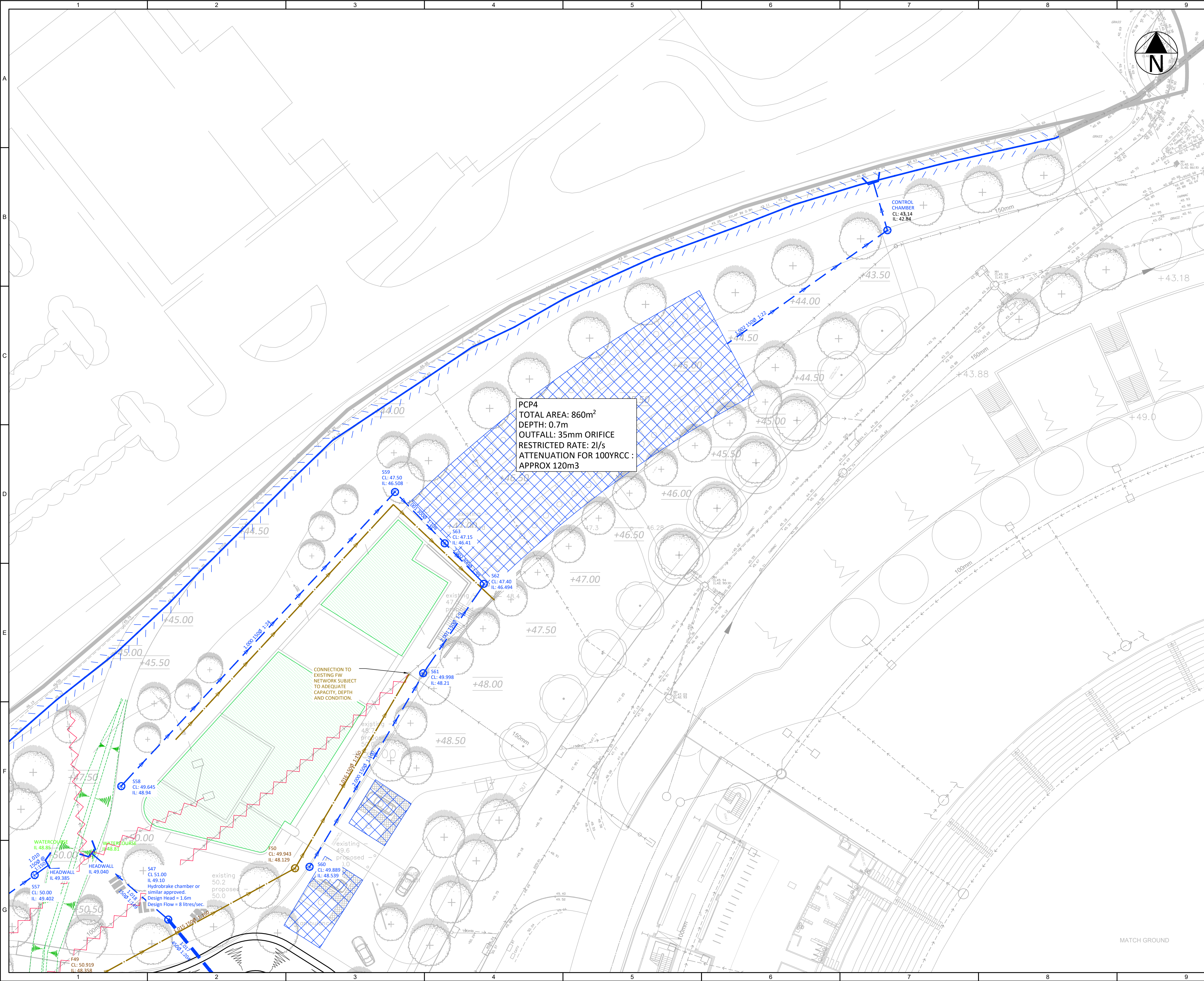
DRAWING STATUS: PLANNING APPLICATION

SCALE @ A1: 0 1:250 12.5 metres

PROJECT: AGEAS BOWL, SOUTHAMPTON

TITLE: DRAINAGE STRATEGY SHEET 4

PROJECT No:	DRAWING No:	REV:
19320	D13	D



KEY

EXISTING DRAINAGE

→ EXISTING SURFACE WATER

→ EXISTING FOUL WATER SEWER PRIVATE SW DRAIN

EXISTING DRAINAGE TO BE ABANDONED

EXISTING WATERCOURSE TO BE RETAINED

PROPOSED PRIVATE DRAINAGE

— SURFACE WATER DRAIN/SEWER

⊕ SURFACE WATER CHAMBER

— DIVERTED CULVERTED WATERCOURSE

⊕ DIVERTED WATERCOURSE INSPECTION CHAMBER

PERMEABLE PAVING

EARTHWORKS

FOUL WATER DRAIN/SEWER

⊕ FOUL WATER CHAMBER

CELLWEB CONSTRUCTION

GEOSYTHETICS TURFMESH GRASS PROTECTION OR SIMILAR APPROVED

GREEN ROOF

INFILTRATING FILTER STRIP

PROPOSED DIVERTED WATERCOURSE

NOTES:

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7. ALL RWP AND SVP SHOWN INDICATIVELY ONLY AND SUBJECT TO DETAILED DESIGN.

KEYPLAN

D	UPDATED ISSUE FOLLOWING CLIENT COMMENTS	23/06/23	RIP	JE
C	DRAINAGE LAYOUT UPDATED IN ACCORDANCE WITH ARCHITECTS SITE PLAN	21/06/23	RIP	JE
B	DRAINAGE LAYOUT UPDATED TO SUIT REVISED SITE LAYOUT	30/08/22	NSD	JE
A	FIRST ISSUE	01/08/22	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:

CLIENT:

LDA/HCCC

ARCHITECT:

DRAWING STATUS:

PLANNING APPLICATION

SCALE @ A1:

0 1:250 12.5 metres

PROJECT:

AGEAS BOWL, SOUTHAMPTON

TITLE:

DRAINAGE STRATEGY SHEET 5

PROJECT No:	DRAWING No:	REV:
19320	D14	D



KEY

EXISTING DRAINAGE

- EXISTING SURFACE WATER
- EXISTING FOUL WATER SEWER
- PRIVATE SW DRAIN
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING WATERCOURSE TO BE RETAINED

PROPOSED PRIVATE DRAINAGE

- SURFACE WATER DRAIN/SEWER
- SURFACE WATER CHAMBER
- DIVERTED CULVERTED WATERCOURSE
- DIVERTED WATERCOURSE INSPECTION CHAMBER
- PERMEABLE PAVING
- EARTHWORKS
- FOUL WATER DRAIN/SEWER
- FOUL WATER CHAMBER
- CELLWEB CONSTRUCTION
- GEOSYTHETICS TURFMESH GRASS PROTECTION OR SIMILAR APPROVED
- GREEN ROOF
- INFILTRATING FILTER STRIP
- PROPOSED DIVERTED WATERCOURSE

NOTES:

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KEYPLAN

The keyplan shows a larger area divided into 18 character areas. The site is located in character area 15. The keyplan is located in the bottom right corner of the drawing.

C	UPDATED FILTER DRAIN LAYOUT	07/07/23	RIP	JE
B	DRAINAGE LAYOUT UPDATED IN ACCORDANCE WITH ARCHITECTS SITE PLAN	23/06/23	RIP	JE
A	FIRST ISSUE	30/08/22	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:

tumu

CLIENT:

LDA/HCCC

ARCHITECT:

DRAWING STATUS:

PLANNING APPLICATION

SCALE @ A1:

0 1:250 12.5 metres

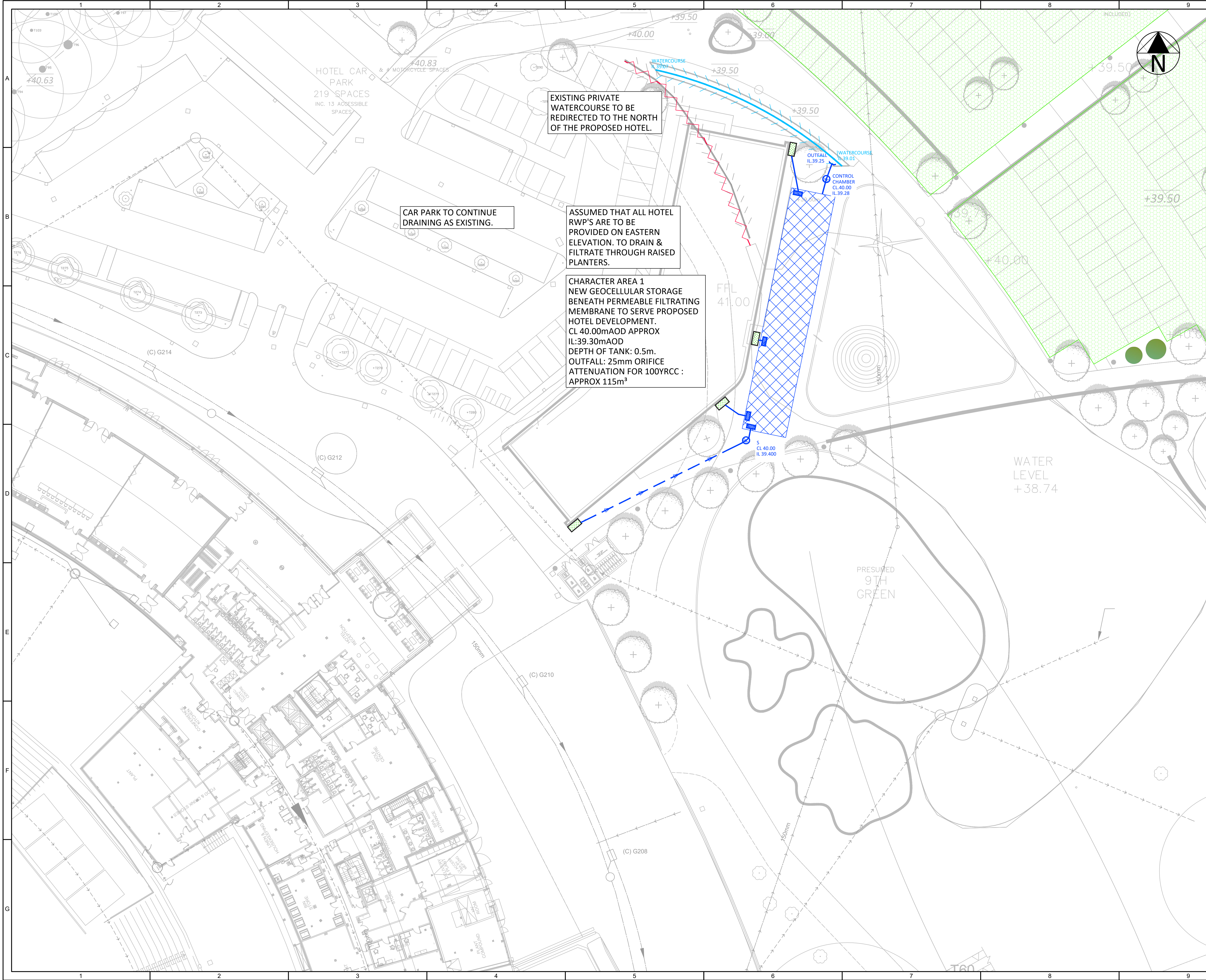
PROJECT:

AGEAS BOWL, SOUTHAMPTON

TITLE:

DRAINAGE STRATEGY SHEET 7

PROJECT No:	DRAWING No:	REV:
19320	D16	C



KEY

EXISTING DRAINAGE

- EXISTING SURFACE WATER
- EXISTING FOUL WATER SEWER
- PRIVATE SW DRAIN
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING WATERCOURSE TO BE RETAINED

PROPOSED PRIVATE DRAINAGE

- SURFACE WATER DRAIN/SEWER
- SURFACE WATER CHAMBER
- DIVERTED CULVERTED WATERCOURSE
- DIVERTED WATERCOURSE INSPECTION CHAMBER
- PERMEABLE PAVING
- EARTHWORKS
- FOUL WATER DRAIN/SEWER
- FOUL WATER CHAMBER
- CELLWEB CONSTRUCTION
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KEYPLAN

B	DRAINAGE LAYOUT UPDATED ISSUE IN ACCORDANCE WITH ARCHITECTS SITE PLAN	23/06/23	RUP	JE
A	FIRST ISSUE	30/08/23	NSD	JE
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:

CLIENT:

LDA/HCCC

ARCHITECT:

DRAWING STATUS:

PLANNING APPLICATION

SCALE @ A1:

0 1:250 12.5 metres

PROJECT:

AGEAS BOWL, SOUTHAMPTON

TITLE:

DRAINAGE STRATEGY SHEET 8

PROJECT No:	DRAWING No:	REV:
19320	D17	B