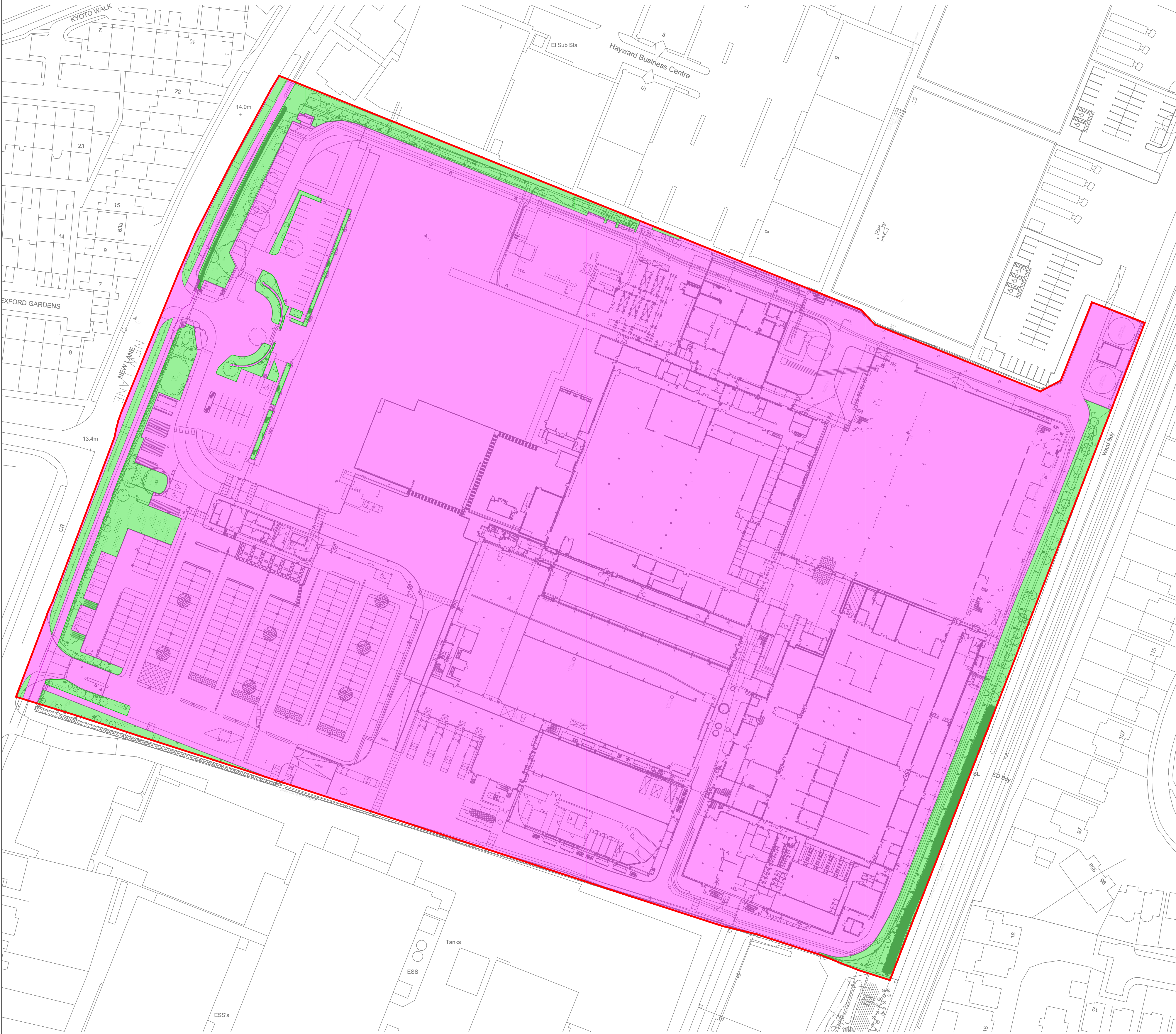
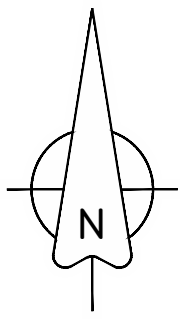
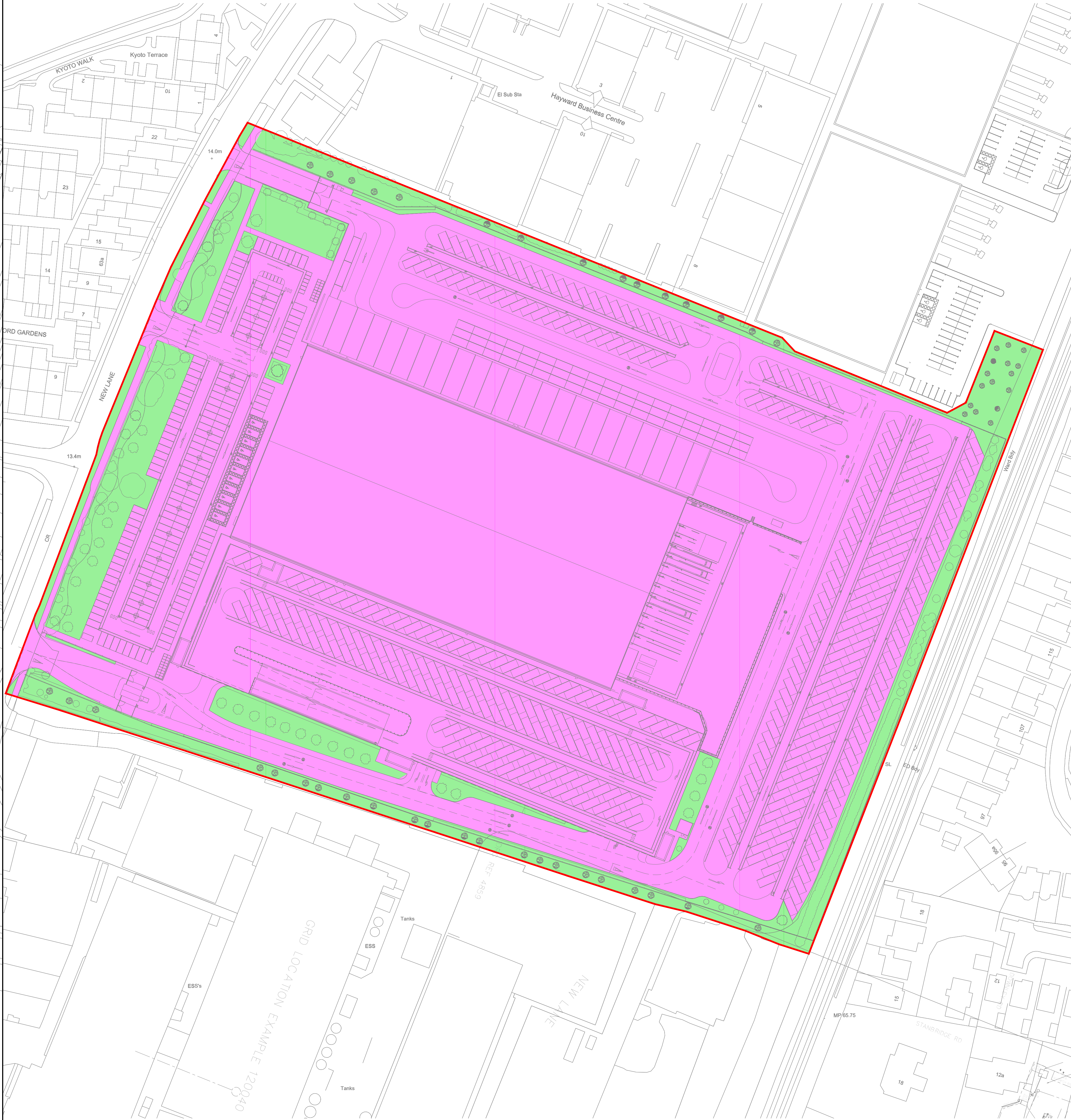
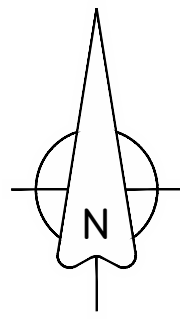


Appendix F – Existing and Proposed Impermeable Areas



EXISTING SITE

TOTAL IMPERMEABLE AREA = 62,858M²
TOTAL PERMEABLE AREA = 4,897M²
TOTAL AREA = 67,755M²



PROPOSED SITE

TOTAL IMPERMEABLE AREA = 57,650M²
TOTAL PERMEABLE AREA = 10,105M²
TOTAL AREA = 67,755M²

GENERAL NOTES

- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
- FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
- ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.

LEGEND

- SITE BOUNDARY
- IMPERMEABLE AREA
- PERMEABLE AREA

0 50MM ON A0 DWG. 50

P05	UPDATED SITE BOUNDARY	SC	SG	09/02/21
P04	UPDATED SITE LAYOUT	SC	SG	09/02/21
P03	UPDATED SITE LAYOUT	SC	SG	29/01/21
P02	UPDATED CLIENT NAME	IL	SG	22/02/20
P01	FIRST ISSUE	IL	SG	21/02/20
REV	DESCRIPTION	BY	CHK	DATE

CLIENT
HAVANT PROPERTY
INVESTMENT LLP

PROJECT
HAVANT
32 NEW LANE

DRAWING TITLE
PROPOSED IMPERMEABLE
AND PERMEABLE PLAN

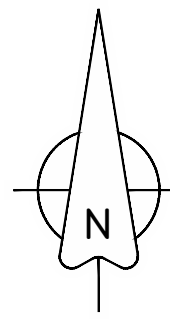
PINNACLE
CONSULTING ENGINEERS

ALCHEMY,
BESSIERER ROAD,
WELWYN GARDEN CITY,
HERTS.
AL1 1HE. TELEPHONE: 01707 527 630
NORWICH | LONDON | DUBLIN | THE HAGUE

DRAWING STATUS			
INFORMATION			
SCALE: A0	DATE	DRAWN BY	CHECKED
1:500	JAN '21	IL	SG
DWG NO:	REVISION		
C200810-PIN-XX-XX-DR-C-210	P05		

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Appendix G – Drainage Strategy



!

DESIGN NOTE
CLASH DETECTION BETWEEN THE PROPOSED DRAINAGE NETWORK AND THE SERVICES TO BE COMPLETED UPON RECEIPT OF THE SERVICES LAYOUT THE M&E CONSULTANTS.

!

DESIGN NOTE
INDICATIVE LOCATIONS OF THE RWP LOCATIONS SHOWN. ARCHITECT TO CONFIRM EXACT LOCATIONS.

!

DESIGN NOTE
ALL DRAINAGE PIPEWORK WITH LESS THAN 1.200M OF COVER TO HAVE CONCRETE PROTECTION.

- GENERAL NOTES**
- DO NOT SCALE THIS DRAWING. WORK ONLY TO FIGURED DIMENSIONS.
 - FOR ALL RELEVANT NOTES, REFER TO STRUCTURAL AND CIVIL ENGINEERING PERFORMANCE SPECIFICATION.
 - ANY DISCREPANCIES ARE TO BE REPORTED TO PINNACLE CONSULTING ENGINEERS IMMEDIATELY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.
 - FOR COVER AND INVERT LEVELS REFER TO PINNACLE DRAWING C200810-PIN-XX-XX-DR-C-00207 MANHOLE SCHEDULE.

LEGEND

- SITE BOUNDARY
- PROPOSED PRIVATE SURFACE WATER SEWER
- PROPOSED PRIVATE FOUL SEWER
- EXISTING PUBLIC SURFACE SEWER
- EXISTING PRIVATE SURFACE SEWER
- EXISTING PRIVATE SURFACE SEWER TO BE ABANDONED
- EXISTING PUBLIC FOUL SEWER
- PERFORATED PIPE
- PO
- PROPOSED PRIVATE SURFACE WATER RISING MAIN
- PROPOSED PRIVATE FOUL WATER RISING MAIN
- PROPOSED SURFACE WATER DRAINAGE CHANNEL
- PROPOSED ATTENUATION TANK
- EXISTING ATTENUATION TANK
- PROPOSED PETROL INTERCEPTOR
- G
- PROPOSED GULLY
- OB
- PROPOSED OUT BOX / SUMP UNIT
- AB
- PROPOSED ACCESS BOX
- RWP
- PROPOSED RAINWATER PIPE
- SRWP
- PROPOSED SIPHONIC RAINWATER PIPE
- PPIC
- PROPOSED POLYPROPYLENE INSPECTION CHAMBER
- PROPOSED POROUS PAVING
- TREE PRESERVATION ORDERS (TPO) AREA
- NO DIG CONSTRUCTION AREA CELLWEED SYSTEM OR EQUAL APPROVED

DRAINAGE NOTES

- ALL PRECAST CONCRETE UNITS ARE TO BE TO BS S911 (CLASS 3 SULPHATE RESISTANT CEMENT).
- ALL PROPOSED MANHOLE COVERS AND FRAMES ARE TO BE DUCTILE IRON COMPLYING WITH BS EN 124.
- ALL MANHOLE COVER LEVELS ARE APPROXIMATE AND SHOULD BE ADJUSTED TO SUIT THE ARCHITECT'S PROPOSED LEVELS.
- CONTRACTOR IS TO ALLOW FOR ALL ABANDONED DRAINAGE RUNS AND MANHOLES / SOAKWAYS TO BE FULLY GROUTED UP OR REMOVED AS NECESSARY.
- ALL PETROL INTERCEPTORS TO BE FITTED WITH OIL LEVEL ALARMS AND TO TERMINATE IN CUSTOMER SERVICES OR STAFF RECEPTION (TO BE AGREED WITH ARCHITECT / CLIENT). ALL INTERCEPTORS TO BE VENTED. LOCATION OF VENT PIPES TO BE AGREED BY THE DESIGN TEAM. CONTRACTOR TO ALLOW FOR POWER SUPPLY AND DUCTING AS NECESSARY.
- ALL DRAINAGE CHANNEL AND GULLY GRATINGS TO BE CAST IRON 'HEELGUARD' AND TO D400 LOADING.
- EXISTING MANHOLE COVER LEVELS TO BE ADJUSTED TO SUIT PROPOSED LEVELS.
- ALL MANHOLE COVERS, DRAINAGE CHANNELS, AND GULLIES TO BE SET 5mm LOWER THAN THE PROPOSED FINISHED LEVELS.
- ALL PRIVATE DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS PART H, BS EN 752, THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY AND, WHERE PROVIDED, THE PINNACLE DRAINAGE SPECIFICATION.
- THE EXACT POSITION, LEVEL, LINE, SIZE AND USE OF EXISTING DRAINAGE IS TO BE CONFIRMED ON SITE. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORKS.
- FOR NEW CONNECTIONS TO EXISTING MANHOLES, EXISTING BENCHING IS TO BE BROKEN OUT AND REFORMED TO SUIT. CONCRETE/BRICK SURROUND TO BE MADE GOOD.
- UNDER ROADS AND EXTERNAL PAVED AREAS ALL MATERIALS WITHIN 450mm OF FINISHED LEVELS TO BE NON-FROST SUSCEPTIBLE. REINSTATEMENTS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE PINNACLE STANDARD DETAIL.
- UNLESS NOTED OTHERWISE, ALL LATERAL CONNECTIONS ARE TO BE INSTALLED WITH LEVEL OFFSETS TO THE DIAMETER AND GRADIENTS SHOWN ON THE LAYOUT DRAWING. ANY PIPE BENDS SHOULD BE PROVIDED TO SUIT THE DIRECTION OF FLOW & NO PIPEWORK SHOULD BE DOWNSIZED IN THE DIRECTION OF FLOW.
- THE NUMBER AND LOCATION OF ALL RWP'S IS SHOWN INDICATIVELY ONLY. TO BE CONFIRMED BY ARCHITECT / M&E CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
- FOUL WATER 'POP UP POSITIONS' ARE SHOWN INDICATIVELY ONLY. TO BE CONFIRMED BY THE ARCHITECT / M&E CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS. REFER TO ARCHITECT PLANS FOR SETTING OUT OF INTERNAL FOUL POP UP POSITIONS.
- ALL RWP'S AND SVP'S TO BE FITTED WITH RODDABLE ACCESS PLATES. ALL FOUL DRAINS TO HAVE RODDABLE ACCESS.
- PROPOSED DRAINAGE PASSING THROUGH NEW FOUNDATIONS TO BE SLEEVED WITH CAST-IN OVERSIZED PIPEWORK.
- ALL SPECIALIST/PROPRIETARY PRODUCTS SUCH AS SEPARATORS, ATTENUATION TANKS, CHANNEL DRAINS AND PACKAGE PUMPING STATION TO BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION DETAILS AND SPECIFICATIONS.
- ALL DRAINAGE PIPEWORK WITH LESS THAN 1.200M OF COVER TO HAVE CONCRETE PROTECTION.

PI2	REMOVED QUADRACEPTORS	RP	JJ	09/08/21
PI1	FOR TENDER ISSUE - S29A REVISED.	TWR	JJ	09/08/21
PI0	FOR TENDER ISSUE - OUTFALL NOTES ADDED	TWR	JJ	05/08/21
PI09	FOR TENDER ISSUE	TWR	DV	26/07/21
PI08	FOR TENDER ISSUE	JD	EO	16/07/21
PI07	REVISED PROPOSED OUTFALL MANHOLE INVERT LEVELS	SC	EO	07/06/21
PI06	REVISED DRAINAGE LAYOUT	SC	EO	06/04/21
PI05	UPDATED SITE LAYOUT	SC	SG	09/02/21
PI04	UPDATED SITE LAYOUT	SC	SG	06/02/21
PI03	REVISED DRAINAGE LAYOUT	SC	SG	29/01/21
PI02	UPDATED CLIENT NAME	IL	SG	22/12/20
PI01	FIRST ISSUE	IL	SG	21/01/21
REV	DESCRIPTION	BY	CHK	DATE

HAVANT PROPERTY INVESTMENT LLP

PROJECT
**HAVANT
32 NEW LANE**

DRAWING TITLE
DRAINAGE STRATEGY

PINNACLE CONSULTING ENGINEERS

ALCHEMY,
BESSIER ROAD,
WELWYN GARDEN CITY,
HERTS.
AL7 1HE. TELEPHONE: 01707 527 630
NORWICH LONDON DUBLIN THE HAGUE

DRAWING STATUS
TENDER

SCALE @ A0	DATE	DRAWN BY	CHECKED
1:500	JAN '21	IL	SG

DWG NO. C200810-PIN-XX-XX-DR-C-00205 P12

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Appendix H – MicroDrainage Calculations