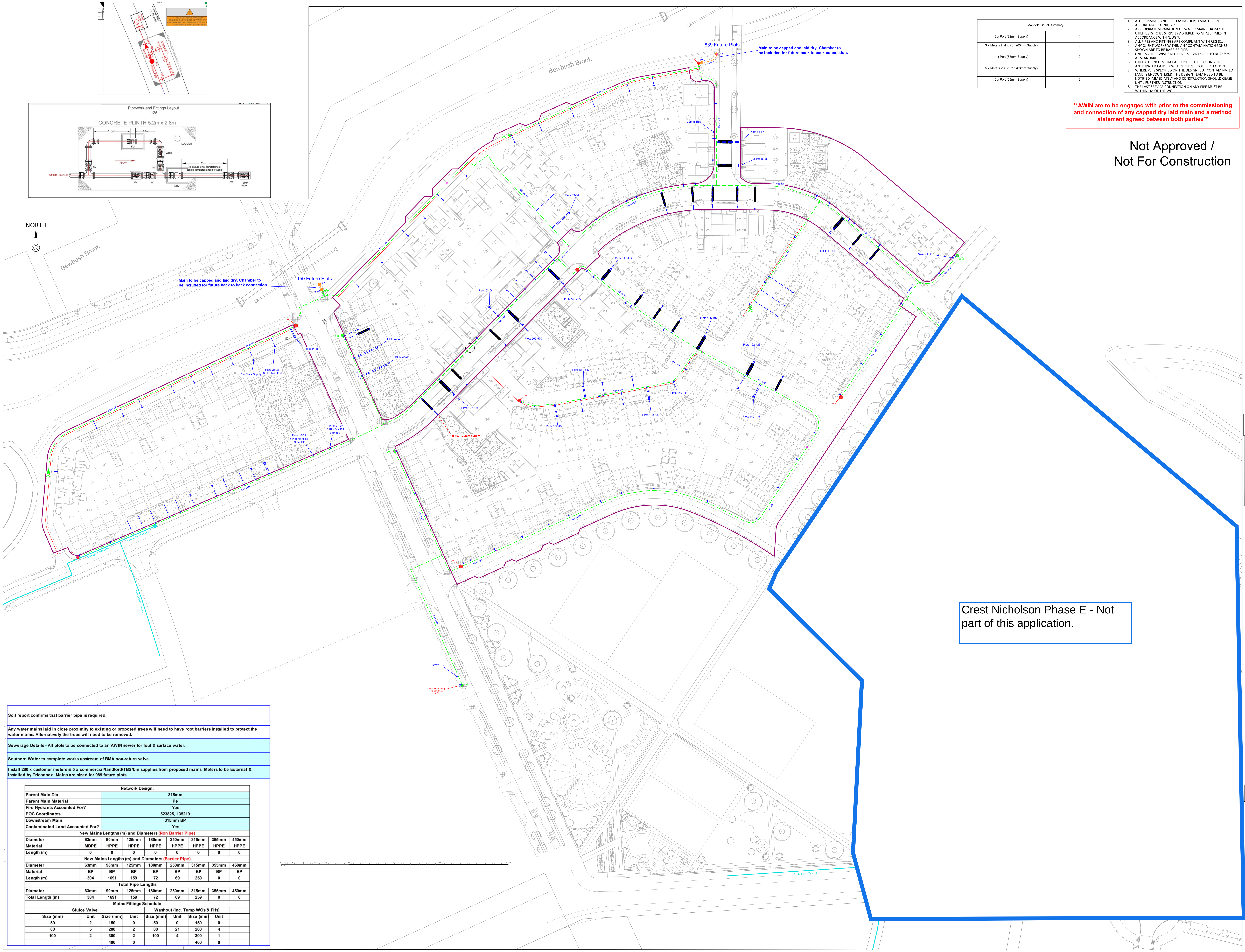


| Manifold Count Summary | |
|---|---|
| 2 x Port (32mm Supply) | 0 |
| 3 x Meters in 4 x Port (63mm Supply) | 0 |
| 4 x Port (63mm Supply) | 0 |
| 5 x Meters in 6 x Port (63mm Supply) | 0 |
| 6 x Port (63mm Supply) | 3 |

1. ALL CROSSINGS AND PIPE LAYING DEPTH SHALL BE IN ACCORDANCE TO NJUG 7.
2. APPROPRIATE SEPARATION OF WATER MAINS FROM OTHER UTILITIES IS TO BE STRICTLY ADHERED TO AT ALL TIMES IN ACCORDANCE WITH NJUG 7.
3. ALL PIPES AND FITTINGS ARE COMPLIANT WITH REG 31.
4. ANY CLIENT WORKS WITHIN ANY CONTAMINATION ZONES SHOWN ARE TO BE BARRIER PIPE.
5. UNLESS OTHERWISE STATED ALL SERVICES ARE TO BE 25mm AS STANDARD.
6. UTILITY TRENCHES THAT ARE UNDER THE EXISTING OR ANTICIPATED CANOPY WILL REQUIRE ROOT PROTECTION.
7. WHERE PE IS SPECIFIED ON THE DESIGN, BUT CONTAMINATED LAND IS ENCOUNTERED, THE DESIGN TEAM NEED TO BE NOTIFIED IMMEDIATELY AND CONSTRUCTION SHOULD CEASE UNTIL FURTHER INSTRUCTION.
8. THE LAST SERVICE CONNECTION ON ANY PIPE MUST BE WITHIN 1M OF THE WO.

****AWIN are to be engaged with prior to the commissioning and connection of any capped dry laid main and a method statement agreed between both parties****

Not Approved /
Not For Construction

| FH Requirements: ALL FIRE HYDRANTS TO BE INSTALLED TO BS750 (COPPER/GUNMETAL OUTLET ONLY). | |
|---|---|
| Location | Fire Hydrant Ref. |
| 523825, 135219 | FH01 |
| 523749, 135299 | FH02 |
| 523777, 135147 | FH03 |
| 523830, 135081 | FH04 |
| 523720, 135086 | FH05 |
| 523704, 135189 | FH06 |
| 523696, 135281 | FH07 |
| 523634, 135428 | FH08 |
| 523580, 135337 | FH09 |
| 523555, 135280 | FH10 |
| 523529, 135207 | FH11 |
| 523457, 135313 | FH12 |
| 523361, 135211 | FH13 |

| Branch Tee Node Number |
|---|
| 2 |
| 3 |
| 5 |
| 7 |
| 9 |
| 10 |
| 13 |
| 14 |
| 15 |
| 20 |
| 21 |
| 24 |
| 28 |
| 29 |
| 31 |
| 32 |
| 35 |
| 36 |
| 37 |
| Total Branch Tees: 19 |

**Soil report confirms that barrier pipe is required.**

**Any water mains laid in close proximity to existing or proposed trees will need to have root barriers installed to protect the water mains. Alternatively the trees will need to be removed.**

**Sewerage Details - All plots to be connected to an AWIN sewer for foul & surface water.**

**Southern Water to complete works upstream of BMA non-return valve.**

**Install 280 x customer meters & 5 x commercial/landlord/TBS/bin supplies from proposed mains. Meters to be External & installed by Triconnex. Mains are sized for 989 future plots.**

| Network Design: | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Parent Main Dia | 315mm | | | | | | | |
| Parent Main Material | Pe | | | | | | | |
| Fire Hydrants Accounted For? | Yes | | | | | | | |
| POC Coordinates | 523825, 135219 | | | | | | | |
| Downstream Main | 315mm BP | | | | | | | |
| Contaminated Land Accounted For? | Yes | | | | | | | |
| New Mains Lengths (m) and Diameters (Non Barrier Pipe) | | | | | | | | |
| Diameter | 63mm | 90mm | 125mm | 180mm | 250mm | 315mm | 355mm | 450mm |
| Material | MDPE | HPPE | HPPE | HPPE | HPPE | HPPE | HPPE | HPPE |
| Length (m) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mains Lengths (m) and Diameters (Barrier Pipe) | | | | | | | | |
| Diameter | 63mm | 90mm | 125mm | 180mm | 250mm | 315mm | 355mm | 450mm |
| Material | BP | BP | BP | BP | BP | BP | BP | BP |
| Length (m) | 304 | 1691 | 159 | 72 | 69 | 259 | 0 | 0 |
| Total Pipe Lengths | | | | | | | | |
| Diameter | 63mm | 90mm | 125mm | 180mm | 250mm | 315mm | 355mm | 450mm |
| Total Length (m) | 304 | 1691 | 159 | 72 | 69 | 259 | 0 | 0 |
| Mains Fittings Schedule | | | | | | | | |
| Sluice Valve | | | | Washout (Inc. Temp WOs & FHs) | | | | |
| Size (mm) | Unit | Size (mm) | Unit | Size (mm) | Unit | Size (mm) | Unit | |
| 50 | 2 | 150 | 0 | 50 | 0 | 150 | 0 | |
| 80 | 5 | 200 | 2 | 80 | 21 | 200 | 4 | |
| 100 | 2 | 300 | 2 | 100 | 4 | 300 | 1 | |
| | | 400 | 0 | | | 400 | 0 | |

Service Connections
25mm service pipes (unless otherwise stated) must be installed in a continuous un-jointed length leaving enough pipe coiled at the boundary or agreed point of delivery to enable a connection directly into the water main. The supply pipe must have a continuous length of blue tracing mesh installed above it from the point of entry up to the property boundary or agreed point of delivery. Any coiled pipes left out for connection must be adequately protected to ensure the supply into the main remains un-jointed.
Prior to connection to the water main, supply pipes must be clearly labelled showing which property they serve and should be sealed with a mechanical watertight stop end.

Existing utilities highlighted on this drawing are for indication only, other utilities may be present that have not been identified. Refer to individual utility provider drawings for construction phase.

**PE Pipe SDR (Unless Otherwise Stated)**
**SDR11 $\leq$63mm**
**SDR17 >63mm**

FIGURE 1 - Recommended Positioning of Utility Apparatus in a 2 metre Footway
Taken from NJUG Publication: Volume 1: Issue 2: 02/11/2007

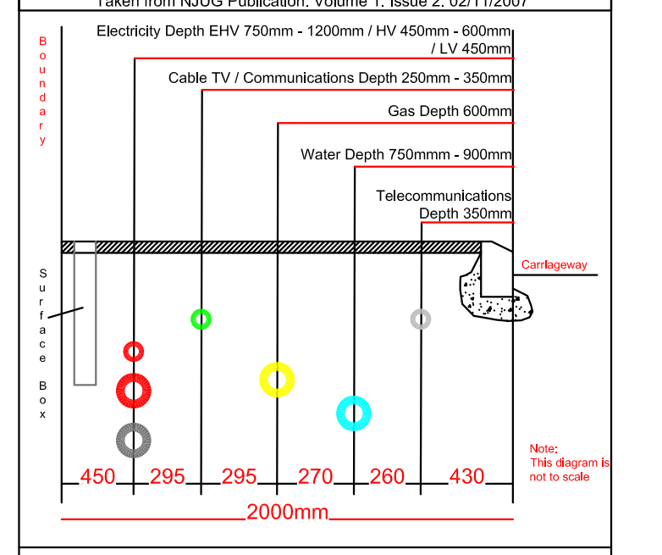
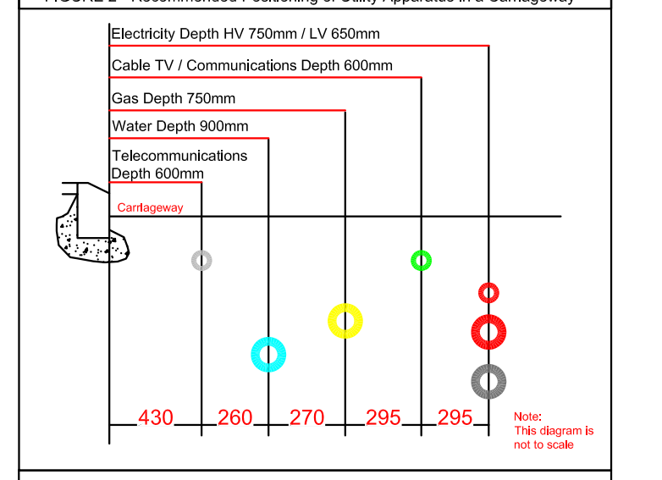

Electricity Depth EHV 750mm - 1200mm / HV 450mm - 600mm / LV 450mm
Cable TV / Communications Depth 250mm - 350mm
Gas Depth 600mm
Water Depth 750mmm - 900mm
Telecommunications Depth 350mm
Boundary
Surface Box
Carriageway
450
295
295
270
260
430
2000mm
Note: This diagram is not to scale

FIGURE 2 - Recommended Positioning of Utility Apparatus in a Carriageway


Electricity Depth HV 750mm / LV 650mm
Cable TV / Communications Depth 600mm
Gas Depth 750mm
Water Depth 900mm
Telecommunications Depth 600mm
Carriageway
430
260
270
295
295
Note: This diagram is not to scale

**Legend**

| Water | |
|---|---|
| Existing | ▬ |
| Proposed Main | - - - |
| Proposed Main - Dry | - - - |
| Proposed Service | - - - |
| Proposed Supply Pipe | - - - |
| Duct | ▬ |
| Site Boundary | ▬ |
| Mains Assumed Diverted / Abandoned | ▬ |
| Bulk Supply | B |
| Sluice Valve | ⧖ |
| Wash Out | ● |
| Boundary Box (Stop Tap) | ⊗ |
| Fire Hydrant | FH01 |
| Air Valve | AV |
| Double Air Valve | DAV |
| Non Return Valve | ▶ |
| Pressure Reducing Valve | PRV |
| Closed Valve | CV |
| Blank Plate | BP |
| Manifold | 4 |

**LEGEND / KEY**
FITTINGS
BOREHOLE
TRIAL HOLE
WASHOUT
SLUICE VALVE
FIRE HYDRANT
HYDRANT WASHOUT
METER
THRUST BLOCK
NON-RETURN VALVE
PRESSURE REDUCING VALVE
AIR VALVE

**Water network design by:**
**GasDesign Utilities Ltd, 20 Broad Street, Whittlesey, Peterborough, PE7 1HA**
**www.gasdesignuk.com Tel. 01733 202914**
**©Gas Design 2025**

ACCREDITED WIRS WATER INDUSTRY REGISTRATION SCHEME

GDUK Utilities
GIRS & WIRS Accredited

# Water Network Design Drawing

| | | |
|---|---|---|
| | | |
| | | |
| 16 | 13/05/26 | 32mm TBS added outside plot 96. |
| 15 | 30/04/26 | 32mm TBS removed outside plot 96. 2 x 32mm TBS added outside plot 75 & next to the Care Home supply. |
| 14 | 17/04/26 | Block A bin store supplied moved to Block B. 32mm TBS added outside plot 96. Mains extended from outside plot 161 south to supply Care Home (90mm Bulk supply to 0.6l/s). |
| 13 | 31/03/26 | Mains routes revised throughout the site into service strip and to avoid drainage clashes. (Outside plots: 1-35, 51-73, 130-143 & 102-106). |
| 12 | 04/03/26 | New site plan added to the design with revised layout and plots numbers (Plots 1-167). Service routes revised accordingly. |
| 11 | 10/02/26 | Existing 180mm Southern Water main removed from the design outside plots 406-427 as this was not installed. |
| 10 | 04/12/25 | Plot 567 supply to be 32mm due to the distance from the meter to the plot. |
| 9 | 26/11/25 | Further fire hydrants added to the design as per fire authority requirements (13 x FH in total on the design). Mains upsized from 63mm to 90mm outside plots 517-520 & 664-668. |
| 8 | 18/11/25 | All twin services revised to be single connections due to a procurement issue of protectaline twin services. (Services designed next to each other to ensure that they can cross the road in one trench). |
| 7 | 24/10/25 | New CSD site plan added to the design. |
| 6 | 06/10/25 | All single service plots from SW mains moved onto the NAV design. (56 Plots & 1 LL supply added). Mains added to the design to supply the new plots. |
| 5 | 23/09/25 | All proposed pipework revised to barrier pipe due to the contamination found in the ground investigation. |
| 4 | 20/08/25 | Southern Water Bulk meter arrangement added to the design. POC coordinates revised. Main revised from POC to BT3. |
| 3 | 18/08/25 | Mains from BT9 to BT12 feeding 839 future plots downsized to 250mm Pe. 6 x sluice valves added to the design. |
| 2 | 29/07/25 | Main added outside plot 451 to supply 150 future plots (Taken from the current 989 total future plots). Mains increased to supply future plots at this point. Plots 655 & 594 removed from the design (To connect to existing SW main). Mains revised between nodes: 32-33 & 35-37. Individual services added to plots: 500, 516 & 623. Plots 621 & 622 now fed from 2 port manifold. |
| 1 | 22/07/25 | Original Drawing |
| Revision | Date | Details |

New Site,
Phases 3DEFG Kilnwood Vale,
Bewbush, Crawley, RH11 6AA.

Client ref: X274
AWIN ref: AWIN232

Ref: B96421287
Date: 13/05/2026
Scale: 1:500@A0
Drawn By: MR