

**General**  
This drawing is for planning purposes only. Please consult all utility plans before carrying out any excavations.  
This drawing does not intend to identify the exact position of the existing apparatus, to accurately locate existing apparatus please consult with the relevant network owners in the area.

**Service Ducts**  
All ducting shall be blue twin-wall rigid ducting with a smooth internal bore, a corrugated external surface, and compliant with BS EN 14741:2006. The ducting must have a slow bending radius in to the building and adhere to **ESPW** building entry specifications.

**Note:** All services are to be 25mm unless otherwise stated on the design. Any services over 30m are to be 32mm.

**Contestable Works**  
All onsite mains to be installed by **HVSS** including temporary WO at Y1 **HVSS** to chlorinate and pressure test water mains on-site.

**Back to back piece up (CRMC connection) at X1 - Y1** is to be completed by **HVSS**.

**Non-Contestable Works**  
All excavation, traffic management and connection to be carried out by **Southern Water** to branch off existing 6" PVC main, install NAV Meter Arrangement, 90mm main and temporary WO at X1.

**Connections Off Existing Mains**  
**Southern Water** to connect to existing 6" PVC main and lay 90mm PE branch to onsite bulk meter

**Meters**  
96no. 15mm AMR meters are to be supplied and installed in boundary boxes by **HVSS**.

**Fire Hydrants**  
West Sussex Fire & Rescue Service will adopt 3 new hydrants. WSFRS Ref: C04246.

**Wash Outs**  
ESPW approved throughbore hydrant fittings to be provided from AVK UK and complying with BS 750.

**Main Installation**  
Water main to be installed in accordance with the recommended NJUG arrangement 0.69m from the kerb and the mains must be a minimum of 2.0m from any buildings. If this cannot be met, then main will be laid within the proposed road.

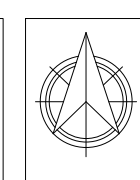
The developer should refer to the NJUG guidelines for the planning, installation & maintenance of utility apparatus in proximity to trees.

**New Appointment and Variations (NAV)**  
**HVSS** will install the new on-site mains and service connections from the new water main to the meter chambers. Additionally, **HVSS** will conduct pressure testing and chlorination of the new on-site mains. **ESPW** will then adopt all installed mains and services up to the meter chambers.

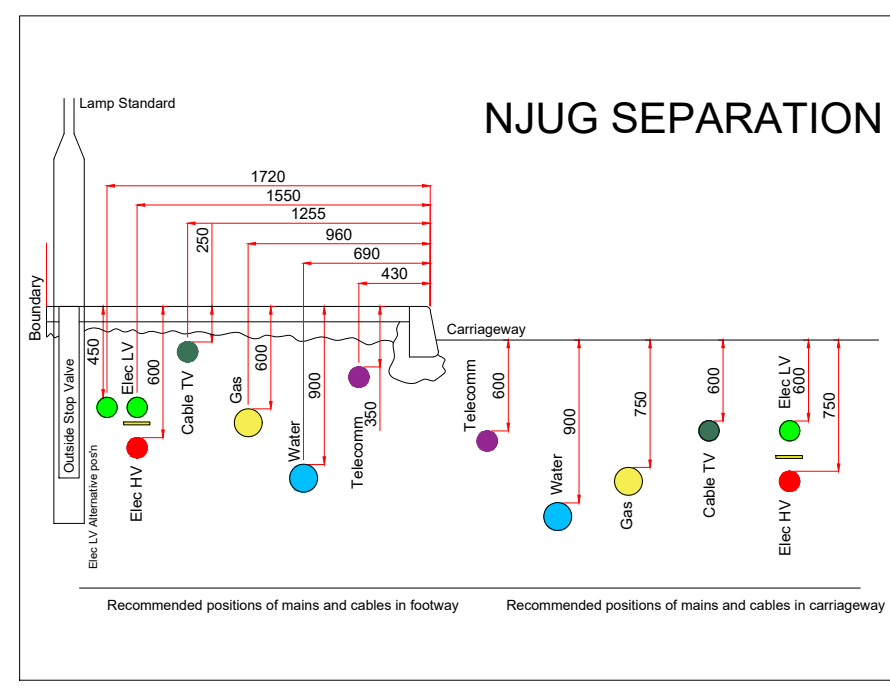
**Non Contaminated Site**  
Site assumed to be non-contaminated and PE is to be used onsite upon confirmation from Southern Water.  
All operatives must refer to the health and safety plan.  
All operatives must wear gloves, not smoke, eat or drink on site and must wash hands after working.

**Water Regs Compliance**  
**HVSS** construction department are to arrange any necessary **ESPW** regulations by laws inspection while service laying in progress.

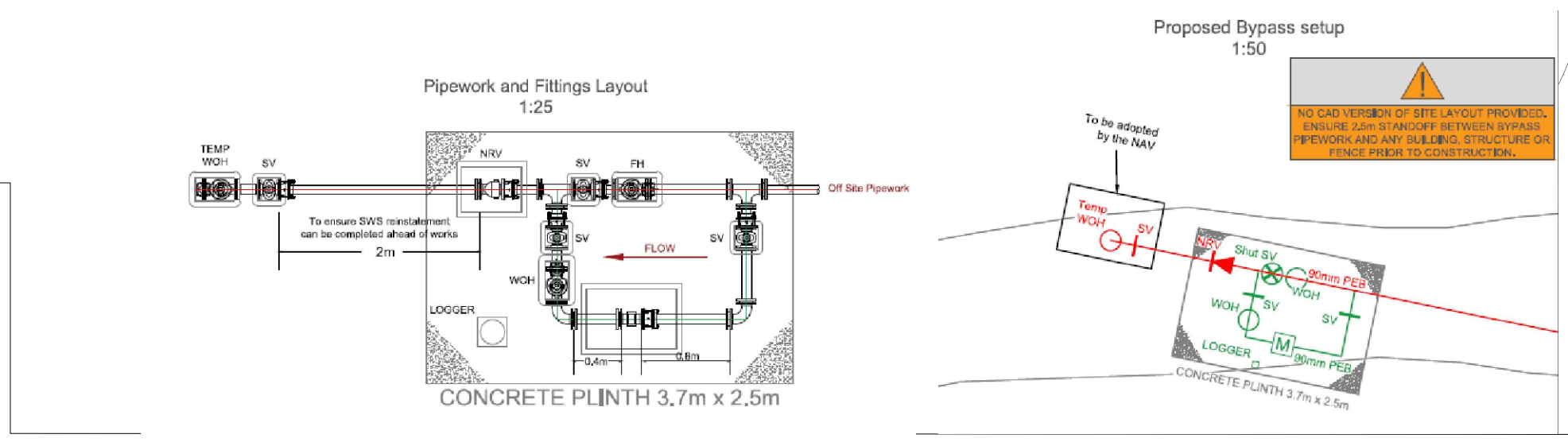
**Sewerage Details**  
All plots connected to the foul and surface water sewers are to be adopted by **ESPW**.



| Risk Assessment |                         |
|-----------------|-------------------------|
| ⚠               | Water Design Compliance |
| ⚠               | Live Traffic            |
| ⚠               | Water Meter Locations   |
| ⚠               | Third Party Utilities   |
| ⚠               | Drains and Sewers       |
| ⚠               | Disposal of Mains Water |
| ⚠               | Pressure Testing        |



| Pipe Schedule    |               |            |            |      |      |      |       |
|------------------|---------------|------------|------------|------|------|------|-------|
| Diameter of Pipe | Pipe Material | SDR Rating | Length (m) | SV's | WO's | FH's | Tee's |
| 125mm            | HPPE          | SDR17      | TBC        |      |      |      |       |
| 90mm             | HPPE          | SDR17      | TBC        |      |      |      |       |
| 63mm             | MDPE          | SDR11      | TBC        |      |      |      |       |
| Total            |               |            | TBC        |      |      |      |       |



**NOTES**

- WATER SERVICE ROUTES MUST FOLLOW A PREDICTABLE SERVICE ROUTE AND MUST BE CLEAR OF ANY PLANTING WHICH COULD CAUSE DAMAGE OR WILL IMPEDE ITS FUTURE MAINTENANCE.

- PIPE DESIGN AND INSTALLATION SHALL GO IN ACCORDANCE WITH ES PIPELINES DESIGN & CONSTRUCTION SPECIFICATION.

**PIPEWORK INSTALLED MUST UNDERGO PRESSURE TESTING AND CHLORINATION BEFORE CONNECTION.**

**ALL WORKS TO COMPLY WITH WATER SUPPLY (Water fittings) REGULATIONS.**

| Risk Assessment |                         |
|-----------------|-------------------------|
| ⚠               | Water Design Compliance |
| ⚠               | Live Traffic            |
| ⚠               | Water Meter Locations   |
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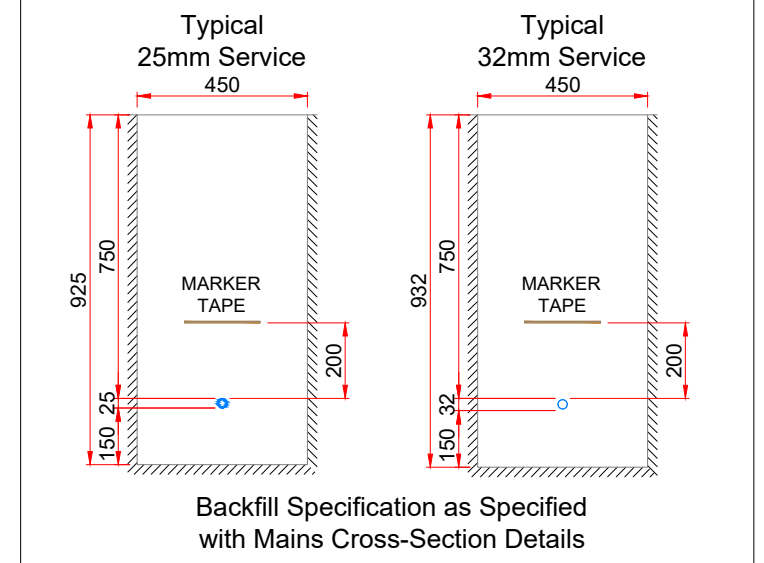
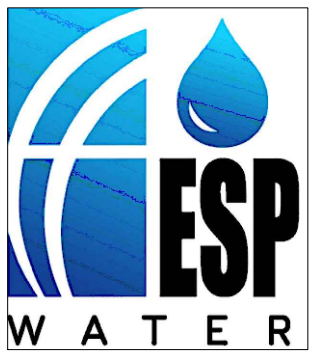
**Key for Mains & Services**

- Existing Water Main
- Proposed Incumbent Works
- Proposed Main (SLP)
- Proposed Communication (SLP)
- Proposed Service
- Proposed Ducted Pipe
- Washout (Temporary)
- Washout (Through Bore with Sandwich Valve)
- Multipoints
- Fire Hydrant
- Change of Diameter / Material
- Sluice Valve (and Size)
- Boundary Meter Box
- Site Boundary
- Building Line
- Trial Pit

| Site OS Coordinates |          |
|---------------------|----------|
| Easting             | Northing |
| 515465              | 125191   |

| Developer Contact Details |                       |                |
|---------------------------|-----------------------|----------------|
| Name                      | Designation           | Contact Number |
| James Cameron             | Technical Coordinator | 07345491289    |

| NAV Details |                                                                                             |
|-------------|---------------------------------------------------------------------------------------------|
| Name        | Address                                                                                     |
| ESP         | First Floor Kings Court, 41-51 Kingston Road, Leatherhead, Surrey, United Kingdom, KT22 7SL |



|     |                |          |     |     |     |     |
|-----|----------------|----------|-----|-----|-----|-----|
| 0   | Original Issue | 23/06/26 | AB  | AB  | -   | -   |
| Rev | Amendment      | Date     | Des | Drw | Chk | App |

**NOT FOR CONSTRUCTION**

**HVSS**

**ELECTRIC • GAS • WATER • FIBRE**

**High Voltage Systems & Services Ltd.**

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2 Riley Road  
Telford Way Industrial Estate  
Kettering NN16 8NN  
TELEPHONE: 01604 781 107

|                      |                                                   |                     |
|----------------------|---------------------------------------------------|---------------------|
| Client               | Barratt Redrow                                    |                     |
| Project Name         | Shipley Road Southwater                           |                     |
| Drawing Title        | Water Pipe Route Plan                             |                     |
| Site Address         | Shipley Road<br>Southwater<br>Horsham<br>RH13 9ER |                     |
| Design Engineer      | Andrew Bridgland                                  | Mobile 07802 462036 |
| Project Manager      | Simon Hughes                                      | Mobile 07729 095658 |
| Adopting Water Ref.  | Scale @ Size                                      | Sheet               |
| ESPW037404           | 1:800 @ A1                                        | 1/1                 |
| Incumbent Water Ref. | Project No.                                       | Drawing No.         |
| 24758                | P2526240                                          | 310                 |