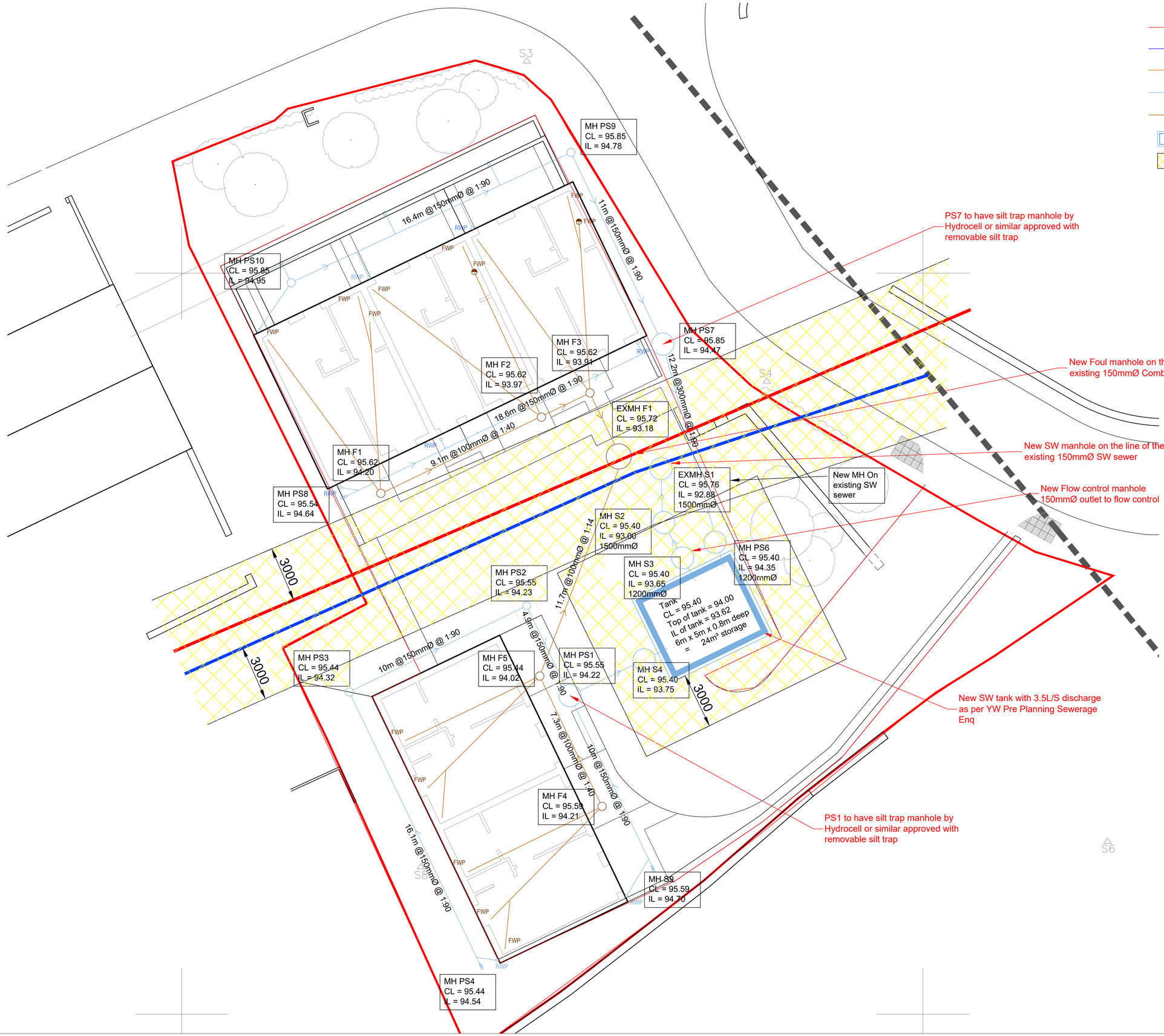

KEY

- Existing Combined Sewer & MH
- Existing SW Sewer & MH
- Existing Foul Sewer & MH
- Proposed SW Sewer & MH
- Proposed Foul Sewer & MH
- Proposed SW Attenuation Tank
- Proposed Easement

NOTES
THIS DRAWING IS THE PROPERTY OF CLIFFORD ENGINEERING LIMITED
ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
DO NOT MEASURE OFF FROM THIS DRAWING
ALWAYS USE THE DIMENSIONS PROVIDED.
THE OS DATA WAS PROVIDED BY THE CLIENT.
THE LAYOUT WAS PROVIDED BY THE CLIENT.
IF THERE ARE ANY DISCREPANCIES WITH THE LAYOUT, PLEASE CONTACT THE CLIENT IN THE FIRST INSTANCE.
ALL MATERIALS SPECIFIED ARE TO BE APPROVED BY THE CLIENT IN WRITING BEFORE ORDERING AN MATERIALS.
ALL DRAWINGS ARE TO BE CHECKED BEFORE STARTING WORKS ON SITE.

ALL WORKS TO BE IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS.
DRAINS PASSING THROUGH BUILDINGS TO BE PROTECTED WITH A PCC LINTEL.
NO BUILDING TO TAKE PLACE WITHIN 3.0M OF AN ADOPTABLE SEWER.
MINIMUM PIPE SIZE FOR ADOPTABLE PURPOSE TO BE 150MMØ WITH FLEXIBLE MECHANICAL JOINTS.
HIGHWAY CONSTRUCTION TO BE IN ACCORDANCE WITH LOCAL HIGHWAY AUTHORITY DEPARTMENT DETAILS.
PRIVATE DRAINAGE TO BE 100MMØ PLASTIC PIPEWORK WITH GRANULAR BED AND SURROUND TO THE SATISFACTION OF THE LOCAL BUILDING AUTHORITY. MINIMUM GRADIENT 1:80. IF LARGER PIPES ARE REQUIRED, THESE ARE TO BE SPECIFIED ON THE DRAWING.
ROAD GULLIES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ROAD CONSTRUCTION DETAILS.
LEVELS MARKED ON DRAWING REFER TO GROUND FLOOR LEVELS, UNLESS OTHERWISE STATED.
FOUL SEWER
SURFACE WATER SEWER
WHERE ADOPTABLE PIPES HAVE CONCRETE PROTECTION, WHERE LESS THAN 1.2M OF COVER IS PROVIDED, ALL JOINTS TO HAVE 18MM THICK FLEXIBLE FILLER APPLIED.
PRIVATE DRAINAGE CONNECTIONS NOT DIRECT INTO A MANHOLE ARE TO BE MADE WITH A 45° JUNCTION AND NOT SADDLES.
MAXIMUM GRADIENT FOR PRIVATE DRIVEWAYS TO BE 1:12 UNLESS SPECIFIED ON THE EXTERNAL WORKS DRAWINGS.
NOTE THAT ALL FENCING AND SCREENING WALL./FENCING DETAILS ARE TO BE IDENTIFIED ON THE ARCHITECTURAL DRAWINGS.
SEWERS MUST HAVE A 5M MINIMUM CLEARANCE TO TREES AND HEDGES, OR THEY MUST BE IN A CONTINUOUS STEEL PIPE OR HAVE CONCRETE PROTECTION SLAB AND SURROUND.
SEWERS LAID IN CLASS S BEDDING (150MM GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF SEWER IS LESS THAN 1.2M IN HIGHWAYS AND VERGES, THE A 150MM THICK CONCRETE SLAB PROTECTION IS REQUIRED. LENGTHS THAT REQUIRE PROTECTION ARE IDENTIFIED ON THE LONG SECTIONS.
ADOPTING WATER AUTHORITIES DO NOT ACCEPT BRICK BUILT MANHOLES AND 1050MMØ CONCRETE MANHOLE RINGS. IT IS PREFERRED TO USE A MINIMUM OF 1200MMØ OR 150MMØ PCC MANHOLE RINGS WITH OPENING SITED OVER THE CHANNEL WHERE DEPTH TO SOFFIT IS BETWEEN 1.0M AND 1.5M.
MAIN SEWERS ARE TO BE LAID IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDE AND TO THE SATISFACTION OF THE SEWERS FOR ADOPTION LATEST GUIDANCE.
ALL ADOPTABLE SEWERS TO BE CLASS 120 CONCRETE OR 40KN/M (150MMØ) 45KN/M (225MMØ) 72KN/M (300MMØ) WITH CLASS S BEDDING AS SPECIFIED.
ADOPTABLE MANHOLES TO BE CONCRETE RINGS AS SPECIFIED IN TEH MANHOLE SCHEDULE.
MANHOLE COVERS MUST HAVE AN OPENING OF 675MM AND SHALL BE CLASS D400 TO BS EN124.
COVERS IN HIGHWAYS TO HAVE 150MM DEEP COVER AND FRAME.
ALL FILLED GROUND TO BE FILLED AND COMPACTED UNDER SUPERVISION OF THE ADOPTING WATER AUTHORITY, PRIOR TO ANY SEWERS BEING LAID.
THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1M AND MANHOLES 500MM FROM KERB FACES AND SERVICE MARGINS.
SEWERS MUST HAVE 5M MINIMUM CLEARANCE FROM TREES AND HEDGES, UNLESS OTHERWISE ADVISED ON THE S104 DRAWING.
COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY THE WATER/HIGHWAY AUTHORITY.
SULPHATE RESISTANT CEMENT (C20 DC2) AND PRECAST PRODUCTS MUST BE USED, UNLESS OTHERWISE STATED.

B - Revised to suit drainage officer comments
03.08.2025

A - Revised to suit updated calcs
05.06.2025

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status: FOR APPROVAL

project: WAKEFIELD ROAD, DEWSBURY

title: PROPOSED DRAINAGE PLAN

date: 02.04.2025

scale @ A1 1:100

job no: 411 drg no: 001 B