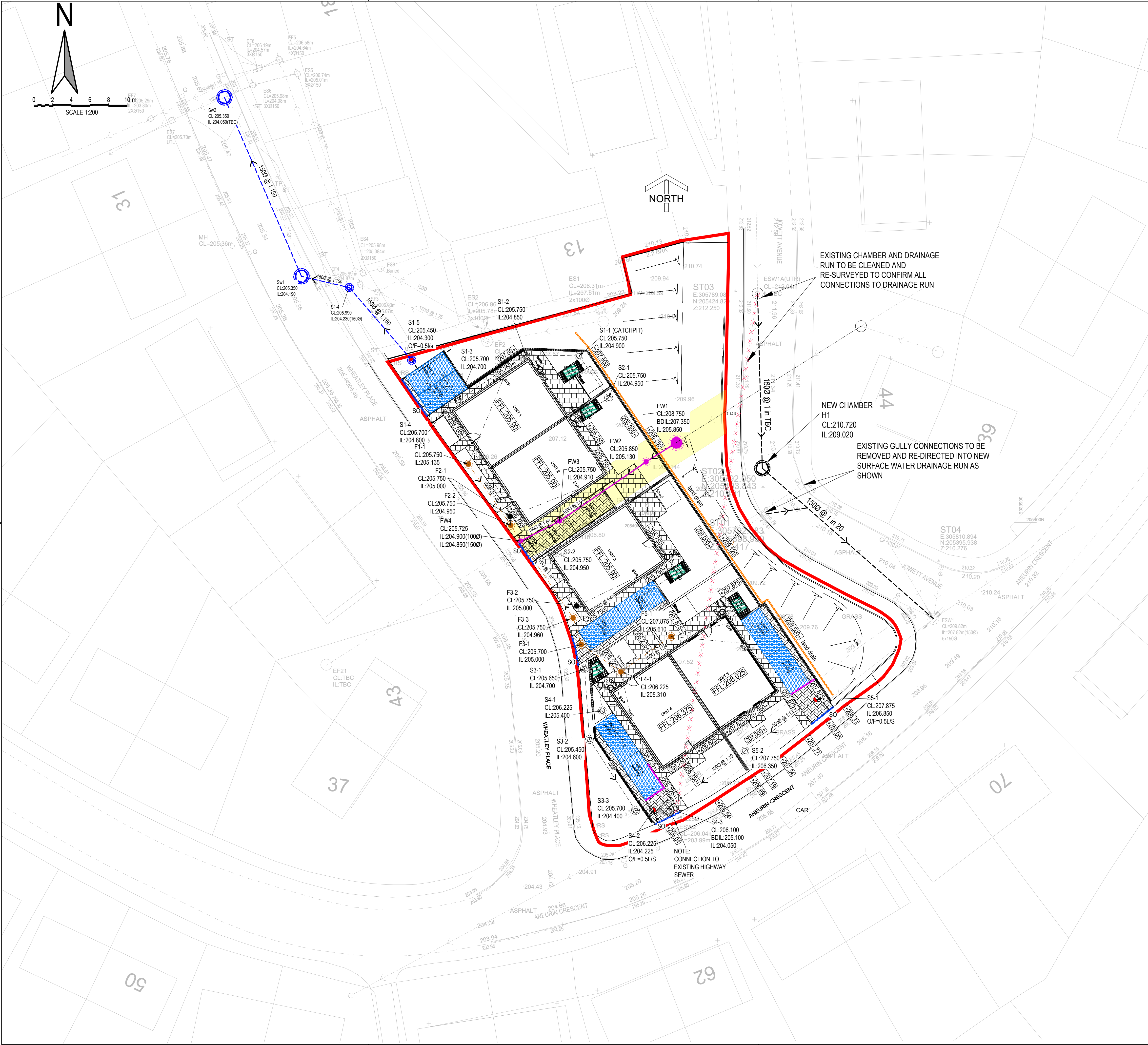




DRAINAGE NOTES:

- MH COVERS AND FRAMES TO CONFORM TO BS EN 124:
-HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)
-FOOTWAYS TO REAR OF BUILDINGS (C250)
- TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:
-IN BACK GARDENS OF HOUSES WHERE DEPTH TO CROWN OF PIPE IS LESS THAN 0.35m.
-IN AREAS OF THE REAR OF FLATS AND PARKING WHERE DEPTH TO CROWN IS LESS THAN 0.9m.
-IN AREAS OF ROAD WHERE DEPTH IS LESS THAN 1.2m.
- ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER.**
- THE GRADIENTS INDICATED AGAINST THE DRAIN RUNS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
- ALL PLOT FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER UNLESS OTHERWISE NOTED.
- ALL ADAPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kN/m² (SN8).
- ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
- ALL NON ADAPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
- ALL PERMEABLE PAVING CELLS TO HOUSE LATERAL SUMP DRAIN ALONG LOWER EDGE WITH 1500 CONNECTION PIPE.
- ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER UNLESS OTHERWISE NOTED.
- SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
- PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
- TEMPORARY WORKS DESIGN BY OTHERS.
- DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DISUSED SEWERS

- EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAIN WHICH SHOWS SIGNS OF FLOW SHOULD BE INVESTIGATED TO ESTABLISH ITS ORIGIN AND AUTHENTICITY, AND REPORTED TO THE ENGINEER.

ABANDONMENT OF SEWERS

- NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO LIVE CONNECTIONS REMAINING.
- NO CONSTRUCTION WORKS SHALL COMMENCE OVER OR WITHIN 6 METRES OF ANY SEWER THAT IS TO BE ABANDONED UNTIL THAT SEWER HAS BEEN FILLED AND SEALED WITH PFA/OPC GROUT TO THE SATISFACTION OF THE HIGHWAY AUTHORITY.
- SEWER GROUTING SHALL CONSIST OF PFA MIXED WITH OPC RATIO 20:1 TO ENSURE A MIX THAT CAN BE PUMPED INTO THE SEWER. MIX STRENGTH 0.7 N/mm SQ. AT 28 DAYS.
- ENDS OF THE SEWER SHALL BE SEALED WITH 225mm THICK BRICKWORK WALLS WITH SUITABLE PIPE CONNECTIONS FOR GROUT INJECTION. SACRIFICIAL STOPPERS MAY BE USED ON SMALL DIAMETER SEWERS.
- SEWERS/DRAINS LESS THAN 7m IN DEPTH MAY BE "GRUBBED-UP" AND REMOVED.

LEGEND

- BLOCK PAVING TO ARCHITECTS DETAILS WITH TYPE EF EDGING TO SURROUND
- TRADITIONAL BLOCK PAVING/SERVICE CORRIDOR
- 80mm PERMEABLE PAVING SYSTEM WITH GEO-CELLULAR PERMAVOID SYSTEM
- GRASSED AREAS TO LANDSCAPE ARCHITECTS DETAILS
- RAINGARDEN
- SITE BOUNDARY

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
- DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
- ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LIAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DRAINAGE LEGEND

- COMBINED SEWER DRAINAGE
- EXISTING DRAINAGE TO BE ABANDONED
- PROPOSED SURFACE WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- PROPOSED FOUL WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- DENOTES PRIVATE FW DRAINAGE
- DENOTES PRIVATE SW DRAINAGE
- PROPOSED RAINWATER PIPE
- PROPOSED WATER BUTT
- PROPOSED SOIL & VENT PIPE
- PROPOSED STUB STACK
- PROPOSED FLOOR OUTLET
- PROPOSED BACK INLET GULLY
- RODDING EYE
- PROPOSED ROAD GULLY
- PROPOSED EASEMENT ZONE
- DENOTES FLOW CONTROL CHAMBER WITH ORIFICE PLATE
- FRENCH DRAIN
- PERFORATED SUMP DRAIN
- LINE DRAINAGE SYSTEM ACO NK100S OR SIMILAR APPROVED WITH RODDING ACCESS AND SUMP OUTLET

EXISTING DRAINAGE LEGEND

- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL/COMBINED SEWER DRAINAGE
- EXISTING EASEMENT ZONE

PRELIMINARY

rev.	drawn	checked	approved	
16.12.20	RGP	LR	JM	
scale @ A1	1:200	project no.	11969	
status	drg. no.			rev.
P	11969/501			09

DRAWING STATUS
A - Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender