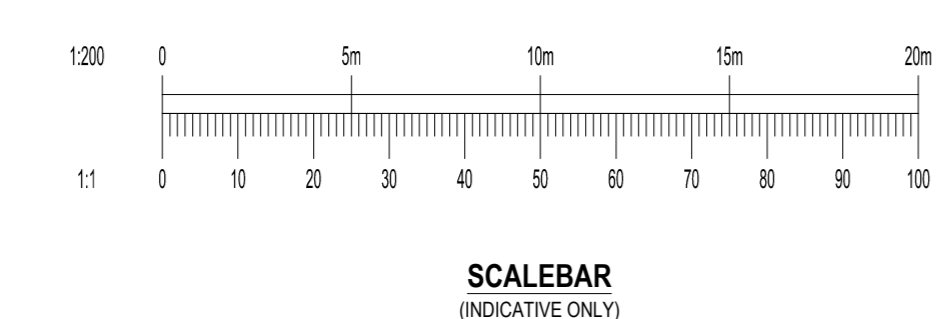


**GENERAL NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.
- ALL DRAINAGE WORK TO BE IN ACCORDANCE WITH CURTINS DRAINAGE SPECIFICATION, BS EN 752, THE BUILDING REGULATIONS AND TO THE SATISFACTION OF THE BUILDING INSPECTOR.
- ALL PROPRIETARY ITEMS ARE TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS DETAILS, INSTRUCTIONS & SPECIFICATIONS.
- ALL EXISTING DRAINS AND SERVICES (LINE AND LEVELS) TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO FINALISING NEW DRAINAGE LINES AND LEVELS.
- ALL COVER LEVELS ARE APPROXIMATE. EXACT LEVELS TO BE DETERMINED FROM THE EXTERNAL WORKS LAYOUT.
- INVERT LEVELS QUOTED AT MANHOLES AND INSPECTION CHAMBERS ARE THOSE OF THE LARGEST CONNECTED PIPE DIAMETER. PIPES AT CHAMBERS TO BE LAID WITH SOFFITS LEVEL UNLESS NOTED OTHERWISE.
- PIPE GRADIENTS WHERE STATED ARE APPROXIMATE.
- PIPES AND FITTINGS TO BE:
  - CONCRETE PIPES AND ANCILLARY PRODUCTS TO BS 5911-1:2002-AR 2010 AND BS EN 1916:2002.
  - VITRIFIED CLAY PIPES AND FITTINGS TO BS EN 295:2013 (ALL PARTS).
  - PLASTIC PIPES FOR LAND DRAINAGE TO BS 4862:1982.
  - PLASTIC PIPING SYSTEMS FOR NON-PRESSURE UNDERGROUND DRAINAGE AND SEWAGE TO BS EN 1401 & BS 4660 - SOLID WALL ONLY. STRUCTURED WALL PIPES ARE NOT ACCEPTABLE FOR USE IN DRAINAGE SYSTEMS UNLESS AGREED.
  - PRECAST CONCRETE MANHOLE UNITS TO BS EN 1917:2002.
  - PLASTIC INSPECTION CHAMBERS FOR DRAINS AND SEWERS TO BS EN 13598-1:2010.
  - GULLY AND MANHOLE TOPS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 124:1994.
  - DRAINAGE CHANNELS FOR VEHICULAR AND PEDESTRIAN AREAS TO BS EN 1433:2002.
- ALL MANHOLE COVERS, ROAD GULLY COVERS AND FRAMES TO COMPLY WITH BS EN 124 NON-ROCKING TYPE UNLESS NOTED OTHERWISE. USE:
  - CLASS A15 AREAS INACCESSIBLE TO VEHICLES, ACCESSED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS.
  - CLASS B125 FOOTPATHS, FOOTWAYS, PEDESTRIAN AREAS WITH ONLY OCCASIONAL LIGHT VEHICULAR ACCESS INCLUDING DOMESTIC DRIVEWAYS & SMALL CAR PARKS.
  - CLASS C250 GULLY TOPS IN CARRIAGEWAY WITHIN 500mm OF KERB AND UP TO 200mm INTO THE FOOTWAY.
  - CLASS D400 CARRIAGEWAYS, HARD SHOULDERS, PARKING AREAS AND PEDESTRIAN AREAS ACCESSED BY ALL TYPES OF VEHICLES.
  - CLASS E600 AREAS IMPOSING HIGH WHEEL LOADS SUCH AS INDUSTRIAL ESTATES AND SERVICE YARDS.
- PIPE BEDDING
  - USE CLASS 3 BEDDING UNLESS NOTED OTHERWISE. NB PROTECT AGAINST CONSTRUCTION TRAFFIC AS NECESSARY.
  - USE CLASS 2 CONCRETE BED & SURROUND OR CONCRETE SLAB PROTECTION AS FOLLOWS:
    - 100-3000 PIPES (PLASTIC)
    - FIELDS AND GARDENS - LESS THAN 600mm COVER TO CROWN.
    - ROADS - LESS THAN 900mm COVER TO CROWN.
- MAIN BACKFILL TO BE WELL COMPACTED IN 150mm LAYERS OF:
  - SELECTED BACKFILL MATERIAL IN ALL SOFT LANDSCAPED AREAS
  - TYPE 1 GRANULAR MATERIAL IN ALL HARDSTANDING AREAS & PUBLIC HIGHWAYS.
- PIPE SIZES ARE INDICATIVE, TO BE CONFIRMED AT DETAILED DESIGN.
- DISCHARGE RATE TO BE CONFIRMED.
- INVERT LEVELS TO BE CONFIRMED UPON RECEIPT OF LEVELS OF EXISTING SEWER IN ROAD.
- ALL LEVELS & DRAINAGE TO BE CONFIRMED FOLLOWING RECEIPT OF APPROVED COORDINATED LAYOUT.



**NOTE  
 PIPES TO BE POLYPROPYLENE TWINWALL**

**MANHOLE SCHEDULE  
 \* INDICATES IL TO BE CONFIRMED ON SITE**

MH NAME	EASTING NORTHING	COVER LEVEL & CLASS	PIPE INVERT LEVEL	PIPE SOFFIT LEVEL	PIPE DIA.	PIPE SLOPE	PIPE LENGTH	DS/MH NAME	TYPE
F50	E 299038.162 N 516115.533	95.059m D400	93.800m 93.800m	93.900m 93.900m	Ø100	1:12	6.337m 7.089m	F51	450 PPIC MAX 350 ACCESS
F51	E 299033.389 N 516120.774	95.128m D400	92.500m 92.600m	92.600m 92.600m	Ø100	1:5 1:11	7.089m 29.636m	F4	450 PPIC MAX 350 ACCESS

**MANHOLE SCHEDULE  
 \* INDICATES IL TO BE CONFIRMED ON SITE**

MH NAME	EASTING NORTHING	COVER LEVEL & CLASS	PIPE INVERT LEVEL	PIPE SOFFIT LEVEL	PIPE DIA.	PIPE SLOPE	PIPE LENGTH	DS/MH NAME	TYPE
SAR1	E 299075.086 N 516095.205	95.031m D400	93.580m 93.650m 93.650m	93.805m 93.805m 93.805m	Ø225	1:100 1:28 1:5	22.082m 19.128m 17.752m	SAR2	1,800 DIA PCC 1220X685 ACCESS
SAR2	E 299061.379 N 516093.924	94.760m D400	93.450m 93.550m 92.950m	93.675m 93.700m 93.700m	Ø225	1:137 1:149 1:236	17.752m 22.285m 44.832m	SAR5 CP	1,800 DIA PCC 1220X685 ACCESS MANHOLE PCC -3M
SAR3 CP	E 299039.597 N 516124.361	95.176m D400	92.800m	93.100m	Ø300	1:226	9.031m	SAR5 CP	1,360 DIA PCC 600X600 ACCESS 300MM SUMP
SAR4	E 299014.510 N 516140.627	95.403m D400	93.420m 92.820m	93.570m 93.570m	Ø150	1:14 1:479	13.345m 28.734m	SAR5 CP	1,800 DIA PCC 600X600 ACCESS MANHOLE PCC -3M
SAR5 CP	E 299032.774 N 516118.444	94.775m D400	92.760m 92.760m 92.910m	93.510m 93.510m 93.210m	Ø750	1:236 1:479 1:20	44.832m 28.734m 9.031m 3.244m	SAR6	2,100 DIA PCC 600X600 ACCESS 300MM SUMP
SAR6	E 299030.243 N 516115.414	95.043m D400	92.746m 92.746m	93.046m 92.971m	Ø300	1:20 1:8	3.244m 23.220m	S2	1,800 DIA PCC 1220X685 ACCESS FLOW CONTROL

**LEGEND:**

- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED OIL INTERCEPTOR
- PROPOSED ATTENUATION TANK
- PROPOSED LINEAR DRAINAGE CHANNEL
- PROPOSED GULLY
- EXISTING PRIVATE DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
- CAPPED PIPE
- PERFORATED PIPE IN TANK

CO3 REVISION CLOUDS ADDED 21/07/22 DM

CO2 GULLIES UPDATED; SNEEKYEAT CAR PARK 15/07/22 DM PT

CO1 DRAINAGE REMOVED FROM SYSTEM 19/06/22 DM PT

Rev Description Date By Chkd

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CONSTRUCTION ISSUE **A1**

**GRAHAM**

Project: WEST CUMBERLAND HOSPITAL PHASE 2 DEVELOPMENT

WCHPH2-CUR-VV-XX-DR-C-92002

Project No: 072419 Size: A0 Date: MAY 21 Drawn By: DM Designed By: DM Checked By: PT

Project Code: WCHPH2-CUR-VV-XX-DR-C-92002 Zone: Level: Discipline: Category/Number: Rev