

H-3-264-734

KEY

PROPOSED ADAPTABLE DRAINAGE

- SITE BOUNDARY
- SURFACE WATER SEWER
- SURFACE WATER SEWER MANHOLE / ACCESS CHAMBER / DEMARCATION CHAMBER / ROAD GULLY (FINAL LOCATIONS TBC - SUBJECT TO SECTION 38 AGREEMENT)
- SURFACE WATER RISING MAIN (SUBJECT TO SECTION 38 AGREEMENT)
- FOUL WATER SEWER
- FOUL WATER SEWER MANHOLE / ACCESS / DEMARCATION / INSPECTION CHAMBER
- FOUL WATER SEWER DIVERSION
- FOUL WATER SEWER MANHOLE DIVERSION
- PROPOSED SEWER EASEMENT
- FOUL WATER RISING MAIN

EXISTING DRAINAGE

- EXISTING YORKSHIRE WATER SEWERS
- EXISTING CULVERT

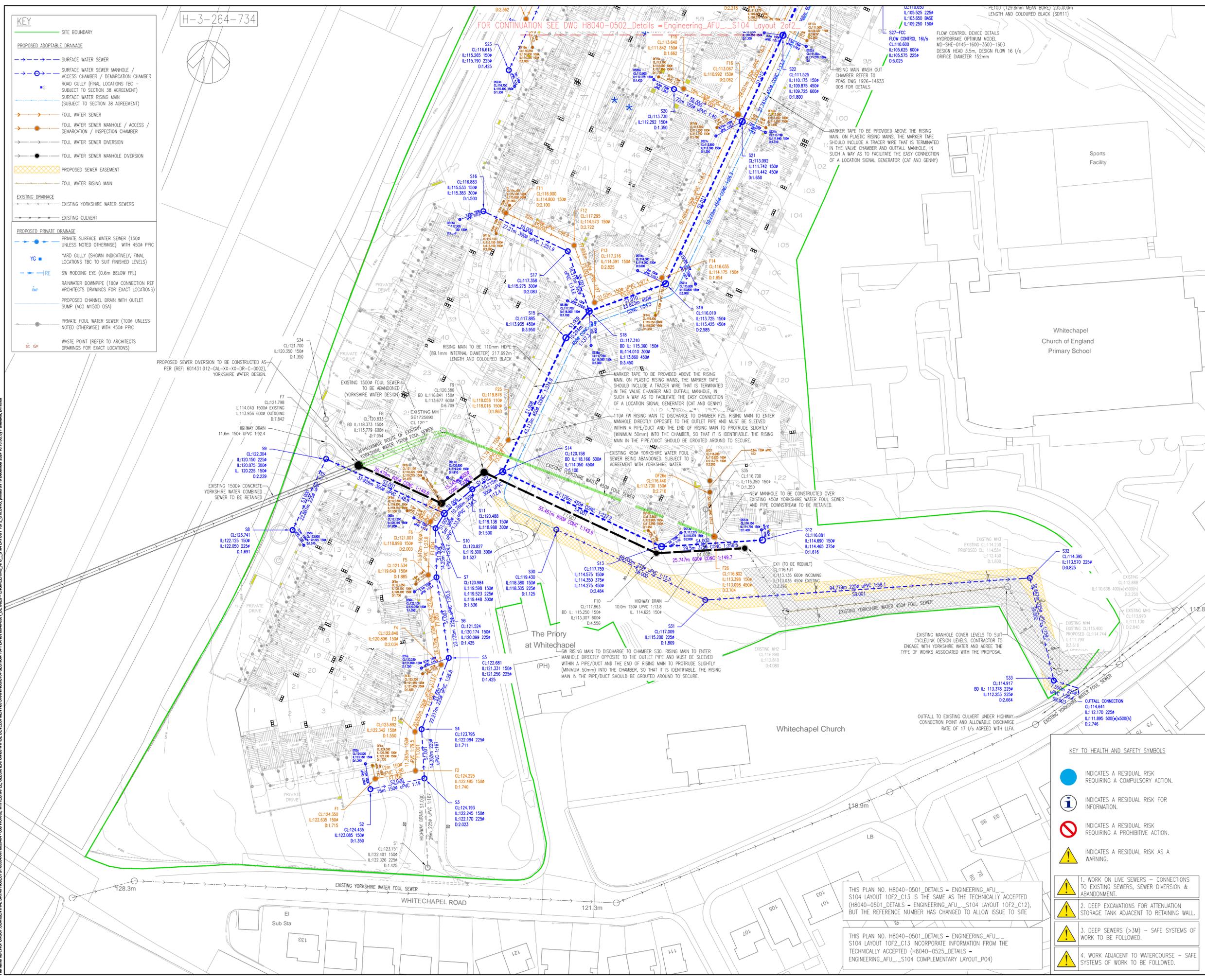
PROPOSED PRIVATE DRAINAGE

- PRIVATE SURFACE WATER SEWER (150mm UNLESS NOTED OTHERWISE) WITH 450mm PPC
- YARD GULLY (SHOWN INDICATIVELY, FINAL LOCATIONS TBC TO SUIT FINISHED LEVELS)
- SW RODDING EYE (0.6m BELOW FFL)
- RAINWATER DOWNPIPE (100mm CONNECTION REF ARCHITECTS DRAWINGS FOR EXACT LOCATIONS)
- PROPOSED CHANNEL DRAIN WITH OUTLET SLUMP (ACC M1500 OSA)
- PRIVATE FOUL WATER SEWER (100mm UNLESS NOTED OTHERWISE) WITH 450mm PPC
- WASTE POINT (REFER TO ARCHITECTS DRAWINGS FOR EXACT LOCATIONS)

PROPOSED SEWER DIVERSION TO BE CONSTRUCTED AS PER (REF: 601431.012-GAL-XX-XX-DR-C-0002), YORKSHIRE WATER DESIGN.

FOR CONTINUATION SEE DWG H8040-0502_Details - Engineering_AFU...S104 Layout 2 of 2

FLOW CONTROL DEVICE DETAILS
HYDROBRAKE OPTIMUM MODEL
MD-SHE-0145-1600-3500-1600
DESIGN HEAD 3.5m, DESIGN FLOW 16 l/s
ORIFICE DIAMETER 152mm



DO NOT SCALE
YORKSHIRE WATER NOTES

- ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "THE CODE" SEWER 2.3 2023, THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/LOCAL PRACTICE FOR ADOPTION OF SMALL SUBMERSIBLE FOUL AND SURFACE WATER PUMPING STATIONS AND MUST BE KITEMARKED.
- MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN-DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUN-OFF.
- COVER SLABS MUST CARRY THE BS1 KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600mm X 600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), "TECHNICAL BULLETIN" ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
- SULPHATE RESISTANT CEMENT (C20-02C) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
- THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
- SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
- SEWERS TO BE LAID IN CLASS 3* BEDDING (150mm GRANULAR BED AND SURROUND), WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERGES (OR LESS THAN 900mm IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BEDDING.
- YORKSHIRE WATER POLICY IS THAT BRICK MANHOLES AND 1050mm DIA MANHOLE RINGS ARE NOT PREFERRED. INSTEAD IT IS PREFERRED THAT TYPE 3* MANHOLE WITH 1200mm DIA. CHAMBER RINGS OR GREATER, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5m.
- ADAPTABLE PLASTIC SEWER PIPES TO BE BS1 KITEMARKED (CERTIFIED TO WS 4-35-01 AND BS/EN13476). ADAPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNEL IN MANHOLES. WE HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE BECAUSE THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON THE BENCHING.
- THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA, 40kN/m, 150mm DIA, 40kN/m, 225mm DIA, 45kN/m AND 300mm DIA, 72kN/m. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 120 TO EN 1916/BS5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WS 4-35-01 AND BS EN13476.
- WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
- THERE SHOULD BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300MM; IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

REV	DATE	BY	DESCRIPTION	CHK	APP
C13	19/12/2024	DP	SW PUMPING STATION & RISING MAIN ADDED	DP	DP
C12	01/09/2023	MW	FOUL WATER SEWER DIVERSION COLOUR AMENDED	NS	NS
C11	14/08/2023	MW	YF DEMARCATION CHAMBER CHANGE RD 4 TH	NS	NS
C10	02/08/2022	MW	YF FOUL WATER DEMARCATION CHAMBERS ADDED ON ROAD 4 TURNING HEAD	NS	NS
C09	28/07/2022	MW	FOR CONSTRUCTION	NS	NS
F08	14/06/2022	NS	KMDC REQUIREMENTS INCORPORATED	NS	NS

DRAWING STATUS: A - FIT FOR CONSTRUCTION

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CLIENT: **BDW HOMES WEST YORKSHIRE**

ARCHITECT: **JRP ARCHITECTURE**

SITE/PROJECT: **WHITECHAPEL ROAD, CLECKHEATON RESIDENTIAL DEVELOPMENT**

TITLE: **PROPOSED SECTION 104 DRAINAGE AGREEMENT PLAN SHEET 1 OF 2**

SCALE @ AT: 1:500	CHECKED: DV	APPROVED: DB
PROJECT NO: 70055404	DESIGNED: DV	DATE: December 24
DRAWING NO: H8040-0501_DETAILS - ENGINEERING_AFU...S104 LAYOUT 10F2		REV: C13
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KEY TO HEALTH AND SAFETY SYMBOLS

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
- INDICATES A RESIDUAL RISK FOR INFORMATION.
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
- INDICATES A RESIDUAL RISK AS A WARNING.

- WORK ON LIVE SEWERS - CONNECTIONS TO EXISTING SEWERS, SEWER DIVERSION & ABANDONMENT.
- DEEP EXCAVATIONS FOR ATTENUATION STORAGE TANK ADJACENT TO RETAINING WALL.
- DEEP SEWERS (>3M) - SAFE SYSTEMS OF WORK TO BE FOLLOWED.
- WORK ADJACENT TO WATERCOURSE - SAFE SYSTEMS OF WORK TO BE FOLLOWED.

THIS PLAN NO. H8040-0501_DETAILS - ENGINEERING_AFU...S104 LAYOUT 10F2_C13 IS THE SAME AS THE TECHNICALLY ACCEPTED (H8040-0501_DETAILS - ENGINEERING_AFU...S104 LAYOUT 10F2_C12), BUT THE REFERENCE NUMBER HAS CHANGED TO ALLOW ISSUE TO SITE

THIS PLAN NO. H8040-0501_DETAILS - ENGINEERING_AFU...S104 LAYOUT 10F2_C13 INCORPORATE INFORMATION FROM THE TECHNICALLY ACCEPTED (H8040-0525_DETAILS - ENGINEERING_AFU...S104 COMPLEMENTARY LAYOUT_P04)

File name: W:\WSP\040\PROJECTS\0501\0501_0504_S08_WHITECHAPEL_CLECKHEATON\WIP\DEVELOPMENT\DRAWINGS\H8040-0501_DETAILS - ENGINEERING_AFU...S104_LAYOUT_10F2_C13.dwg, printed on 18 December 2024, 16:16:53, by p.mahalik, Dimico