



**ADOPTABLE SEWER NOTES:**

1. ALL ADOPTABLE SEWER WORKS AND MATERIALS TO BE ACCORDANCE WITH CODES FOR ADOPTABLE SEWER WORKS AND MATERIALS AND THE ADOPTABLE WATER AUTHORITIES STANDARDS/REQUIREMENTS ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND NOTED/REMARKED.
2. DRAINAGE SYSTEMS TO COMPLY WITH BS EN 476 AND EN 852.
3. ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING: BS EN 25111.
4. ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONTRACTED AND TESTED TO THE FULL SATISFACTION OF THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
5. V-CORRUTED POLYPROPYLENE (V-CORRUTED) CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 206-1:2011, 2:2011, 3:2011 AND 4:2011 RESPECTIVELY AND UNLESS OTHERWISE SPECIFIED SHALL BE 300mm DIA. UNLESS OTHERWISE SPECIFIED.
6. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 TO 2015 AND 2016 MANHOLE COVERS AND FRAMES TO BE OF A NON-CORRODING DESIGN WITH CORROSION RESISTANT AND DURABLE FINISHES. UNLESS OTHERWISE SPECIFIED ALL COVERS SHOULD BE RATED 750N OR 50kN APPROPRIATE. MANHOLE COVERS SHALL BE ACCORDANCE WITH CONCRETE IN ACCORDANCE WITH TECHNICAL SPECIFICATION FOR CONCRETE IN ACCORDANCE WITH BS EN 12620.
7. NO MECHANICAL JOINTS TO BE USED WITHIN 300mm OF THE CROWN OF ANY PIPE.
8. WORKMAN TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 998-2:2015 AND PD 809:2005.
9. COVER AND FRAME BEINGS WORKMAN TO COMPLY WITH THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) AND THE RELEVANT PROVISIONS OF THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAYS WORKS VOLUME 1 AND 2.
10. MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 800mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
11. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF THE ADOPTING WATER AUTHORITY BEFORE ANY SEWER WORKS ARE CARRIED OUT.
12. COVER SLABS MUST CARRY THE FULL TRAFFIC LOAD. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A COVERING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO THE COVER FRAME OPENING. SIZE OF COVERING BEARING SLAB TO BE AS SPECIFIED IN THE ASSOCIATED TECHNICAL SPECIFICATION ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
13. SULPHATE RESISTANT CEMENT (C30/37) AND PRECAST CONCRETE PRODUCTS MUST BE USED. UNLESS OTHERWISE SPECIFIED ALL CONCRETE SHALL BE TO THE REQUIREMENT OF BS EN 12620.
14. THE ADOPTABLE SEWERS SHALL BE A MINIMUM OF 1.0m MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
15. SEWERS MUST HAVE A METRES CLEARANCE FROM TREES AND HEDGES.
16. SEWERS TO BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
17. BEDDING AND SURROUND MATERIALS TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).
18. THE COVER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
19. ADOPTABLE PLASTIC SEWER PIPES TO BE KITEMARKED (CERTIFIED TO BS 5301) AND UNLESS OTHERWISE SPECIFIED, ALL ADOPTABLE PLASTIC SEWER PIPES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
20. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
21. WHERE A 600mm COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLE TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).

**GENERAL NOTES:**

1. THESE NOTES ARE INTENDED TO ASSIGN DRAWINGS AND SPECIFICATIONS WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
2. THE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
3. DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCY TO BE REPORTED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK COMMENCED.

**GENERAL NOTES:**

1. ALL WORKS SUBJECT TO SECTION 10, SECTION 10/278 AND SECTION 10/279 AGREEMENTS TO BE APPROVED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
3. ALL WORKS TO BE UNDERTAKEN IN COMPLIANCE WITH BS 800 FOR WORKMANSHIP ON BUILDING SITES.

**ABBREVIATIONS:** MH - MANHOLE  
L - INVERT LEVEL  
F/W - FOUL WATER  
F/M - FOUL WATER

**KEY:**

- SURFACE WATER
- FOUL WATER SEWER
- FOUL WATER RISING MAIN
- S104 SITE SURROUND
- EXISTING HIGHWAY DRAIN/PRIVATE SEWERS SURFACE WATER SEWER
- EXISTING HIGHWAY DRAIN/PRIVATE SEWERS FOUL WATER SEWER
- MAJOR CONTOUR @ 10m SPACING
- MINOR CONTOUR @ 25m SPACING
- PROPOSED SWALE DEPRESSION WITH PERFORATED PIPE UNDERDRAIN AS INDICATED TO AID SURFACE WATER DRAINAGE - PRIVATE SURFACE WATER ONLY
- PROPOSED SWALE DEPRESSION WITH PERFORATED PIPE UNDERDRAIN AS INDICATED TO AID SURFACE WATER DRAINAGE
- PROPOSED DITCH TO AID SURFACE WATER DRAINAGE
- 3m EASEMENT FOR ADOPTABLE SEWERS LOCATED OUTSIDE ADOPTABLE HIGHWAY BOUNDARIES
- LANE

**BIO-SWALE NOTES:**

1. BED PROFILES MAY BE SUBJECT TO ECOLOGICAL REQUIREMENTS, A BENTONITE GEOTEXTILIC BED PROFILE SHOULD BE USED TO PREVENT ROOT PENETRATION INTO THE SWALE. UNLESS OTHERWISE SPECIFIED, ALL SWALES SHALL BE 150mm DEEP AND 300mm WIDE.
2. ALLOW FOR 150mm OF TORSION TO BANKING OF GRASSED SLOPES.
3. ALL PLANTING TO BE CONTRACTED BY A QUALIFIED LANDSCAPE ARCHITECT. PLEASE NOTE THAT THE ALL AREAS OF THE SWALE WHICH WILL BE MORE FREQUENTLY THIS WILL HAVE AN EFFECT ON THE CHOICE OF PLANTING SPECIES TO THE BASE OF THE SWALE. SUITABLE TO LOCAL CONDITIONS AND AN APPROPRIATE RANGE OF PLANTING SPECIES IN MANHOLES ARE NOT ACCEPTABLE AND PREFERENCE IS GIVEN TO CLAYWARE CHANNELS. MANHOLES THIS IS NOT A SPECIALTY PLANT CHANNELS ARE DIFFICULT TO SET IN CONCRETE AND THE FINISH WHICH IS OBTAINED IS NOT SATISFACTORY FOR THE FINISH WHICH IS OBTAINED ON THE BENCHING.
4. THE ADOPTABLE SEWERS SHALL BE A MINIMUM OF 1.0m MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
5. SEWERS MUST HAVE A METRES CLEARANCE FROM TREES AND HEDGES.
6. SEWERS TO BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
7. BEDDING AND SURROUND MATERIALS TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).
8. THE COVER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
9. ADOPTABLE PLASTIC SEWER PIPES TO BE KITEMARKED (CERTIFIED TO BS 5301) AND UNLESS OTHERWISE SPECIFIED, ALL ADOPTABLE PLASTIC SEWER PIPES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
10. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
11. WHERE A 600mm COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLE TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).

**PLANTING NOTES:**

1. WHEN SELECTING PLANTS SEE CHARACTERISTICS, DRAINAGE, SOIL AND ORIENTATION SHOULD BE TAKEN INTO ACCOUNT.
2. CONSIDERATION SHOULD BE GIVEN TO HOW PLANT CHARACTERISTICS WILL AFFECT THE SLOPE OF THE SWALE AND THE POSSIBILITY OF ROOT PENETRATION INTO THE SWALE.
3. ALL PLANTING TO BE CONTRACTED BY A QUALIFIED LANDSCAPE ARCHITECT. PLEASE NOTE THAT THE ALL AREAS OF THE SWALE WHICH WILL BE MORE FREQUENTLY THIS WILL HAVE AN EFFECT ON THE CHOICE OF PLANTING SPECIES TO THE BASE OF THE SWALE. SUITABLE TO LOCAL CONDITIONS AND AN APPROPRIATE RANGE OF PLANTING SPECIES IN MANHOLES ARE NOT ACCEPTABLE AND PREFERENCE IS GIVEN TO CLAYWARE CHANNELS. MANHOLES THIS IS NOT A SPECIALTY PLANT CHANNELS ARE DIFFICULT TO SET IN CONCRETE AND THE FINISH WHICH IS OBTAINED IS NOT SATISFACTORY FOR THE FINISH WHICH IS OBTAINED ON THE BENCHING.
4. THE ADOPTABLE SEWERS SHALL BE A MINIMUM OF 1.0m MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
5. SEWERS MUST HAVE A METRES CLEARANCE FROM TREES AND HEDGES.
6. SEWERS TO BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
7. BEDDING AND SURROUND MATERIALS TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).
8. THE COVER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
9. ADOPTABLE PLASTIC SEWER PIPES TO BE KITEMARKED (CERTIFIED TO BS 5301) AND UNLESS OTHERWISE SPECIFIED, ALL ADOPTABLE PLASTIC SEWER PIPES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
10. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
11. WHERE A 600mm COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLE TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).

**TREES/SHRUBS NOTES:**

1. TREES OR LARGE SHRUBS SHOULD NOT BE GROWN ON OR VERY CLOSE TO WATER-IMPONDING BODIES TO PREVENT EMANATION INTO THE WATER AND UNDESIRABLE VISIBILITY OF BIRM SLOPES FOR VICTIMS OF POTENTIAL STRUCTURAL PROBLEMS, SUCH AS ANIMAL BURROWS, SLUMPING, OR CRACKS IN THE BURN.
2. TREES AND SHRUBS PLANTED ON SLOPES SHOULD NOT GROW WITHIN 5m OF WATER-IMPONDING BODIES. UNLESS OTHERWISE SPECIFIED, ALL PLANTING SHALL BE 150mm DEEP AND 300mm WIDE.
3. ALL PLANTING TO BE CONTRACTED BY A QUALIFIED LANDSCAPE ARCHITECT. PLEASE NOTE THAT THE ALL AREAS OF THE SWALE WHICH WILL BE MORE FREQUENTLY THIS WILL HAVE AN EFFECT ON THE CHOICE OF PLANTING SPECIES TO THE BASE OF THE SWALE. SUITABLE TO LOCAL CONDITIONS AND AN APPROPRIATE RANGE OF PLANTING SPECIES IN MANHOLES ARE NOT ACCEPTABLE AND PREFERENCE IS GIVEN TO CLAYWARE CHANNELS. MANHOLES THIS IS NOT A SPECIALTY PLANT CHANNELS ARE DIFFICULT TO SET IN CONCRETE AND THE FINISH WHICH IS OBTAINED IS NOT SATISFACTORY FOR THE FINISH WHICH IS OBTAINED ON THE BENCHING.
4. THE ADOPTABLE SEWERS SHALL BE A MINIMUM OF 1.0m MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
5. SEWERS MUST HAVE A METRES CLEARANCE FROM TREES AND HEDGES.
6. SEWERS TO BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
7. BEDDING AND SURROUND MATERIALS TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).
8. THE COVER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
9. ADOPTABLE PLASTIC SEWER PIPES TO BE KITEMARKED (CERTIFIED TO BS 5301) AND UNLESS OTHERWISE SPECIFIED, ALL ADOPTABLE PLASTIC SEWER PIPES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
10. THE MINIMUM COVERING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100mm DIA. UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL MANHOLE MANHOLES SHALL BE Laid IN CLASS 'B' BEDDING 150mm GRANULAR BED AND SURROUND. FOR PIPES 300mm DIA. UNLESS OTHERWISE SPECIFIED.
11. WHERE A 600mm COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLE TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4:00 (TABLE 4.2).

**MAINTENANCE NOTES FOR END USER:**

1. THERE WILL BE A REQUIREMENT FOR MAINTENANCE OPERATIONS TO BE PERFORMED ON THE SWALE. IT IS INTENDED THAT THESE WORKS ARE CARRIED OUT BY SUITABLY EXPERIENCED PERSONNEL. HOWEVER, A DETAILED METHOD STATEMENT SHOULD BE DEVELOPED BY THE CONTRACTOR AND DRIVEN UP AT APPROPRIATE TIME AND WILL INCLUDE THE FOLLOWING ITEMS:
2. MANAGEMENT PLAN DESCRIBING THE MANAGEMENT OBJECTIVES FOR THE SITE OVER TIME AND THE MANAGEMENT STRATEGIES THAT WILL NEED TO BE IMPLEMENTED.
3. SPECIFICATIONS DETAILING THE CONDITIONS UNDER WHICH WORK WILL BE UNDERTAKEN, THE MATERIALS TO BE USED AND STANDARD OF WORK THAT WILL BE REQUIRED.
4. A SCHEDULE OF WORKS TAKING THE FACTS THAT MUST BE UNDERTAKEN AND THE FREQUENCY AT WHICH THEY MUST BE PERFORMED: INCLUDING PUMPS, CATCHMENT MANHOLES AND PETROLOG INTERFERENCE.
5. PLEASE REFER TO THE CIRA GUIDANCE FOR FURTHER INFORMATION.

**OUTLINES NOTES:**

1. OUTLINE STRUCTURES ARE ASSIGNED TO BE PRECAST CONCRETE ALTERNATIVE OR SIMILAR APPROVED WITH SUITABLE GRATING/GRIDS. MANHOLE PROTECTION TO BE PROVIDED WHERE REQUIRED ON DEEP INSTALLATIONS.
2. ANTI-CORROSION PROTECTION TO BE PROVIDED ON SLOPES AND BASE OF BASINS. THIS IS SUGGESTED TO BE STAINLESS STEEL HIGH MARKET FILLED WITH COMPACTED TYPE 6 GRANULAR FILL MIN 150mm THICK OR SIMILAR APPROVED.
3. IT IS SUGGESTED ALL EXISTING RECEIVING DRAINAGE/SEWERAGE SYSTEMS TO BE DAILY INSPECTED AND IF REQUIRED DELETED/REPLACED TO BE UNDERTAKEN TO ENSURE THEY ARE FREE FLOWING.
4. THE ABOVE ASSIGNED DISCHARGE POINTS ARE FREE FLOWING AND THAT REGULAR INSPECTIONS AND MAINTENANCE IS UNDERTAKEN TO ENSURE OPTIMUM PERFORMANCE.

**DRAINAGE:**

1. IT IS ADVISED ALL PLASTIC PEWIKES TO BE INSTALLED IN LENGTHS NO LONGER THAN 30m TO PREVENT IRREGULAR LENGTHS IN THE INVERT OF THE PIPE.
2. WHERE SEWERS UNDER ROADS OR TWO SEWERS CROSS TO BE LEVEL LESS THAN 12m OF COVER A 150mm (200mm) FULLY CONCRETE BED AND SURROUND.
3. BRANCH CONNECTIONS TO ENTER ACCESS CHAMBERS AT THE PIPE LEVEL.
4. ACCESS CHAMBERS, CONNECTIONS AND PIPEWORK IS SHOWN APPROXIMATELY F/M POSITIONS TO SUIT FINISHES.
5. BEDDING SURROUNDS

COVER BEARING PER PIPES	CLASS	DEPTH
LESS THAN 300mm	CLASS 2	150mm
300mm TO 450mm	CLASS 3	150mm
450mm TO 600mm	CLASS 4	150mm
600mm TO 750mm	CLASS 5	150mm
750mm TO 900mm	CLASS 6	150mm
900mm TO 1050mm	CLASS 7	150mm
1050mm TO 1200mm	CLASS 8	150mm
1200mm TO 1350mm	CLASS 9	150mm
1350mm TO 1500mm	CLASS 10	150mm

**EXTRINSIC UNDER SWALE (PERFORATED PLASTIC)**

ALL COVERS ARE BASED ON PERFORMANCE LEVEL TO SUIT PIPE.

**KEY PLAN:**

1. FOR MANHOLE AND ACCESS WORKS SEE ENDS FROM STANDARD LOADINGS.

2. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY OF THE ABOVE PRIOR TO COMMENCEMENT OF EACH DAY OF WORK FOR THEIR REPRESENTATIVE TO CARRY OUT COMMENCEMENT TO INSURE PROTECTION AND APPROVED DETAILS. IF ANY SUCH REQUESTS OR INSTRUCTIONS CAUSE CONFLICT WITH THE SPECIFICATION THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

3. SEWERS MUST HAVE A CLEARANCE FROM TREES AND HEDGES WHERE IT IS NOT POSSIBLE TO ACHIEVE THIS CLEARANCE A DETAILED METHOD STATEMENT SHOULD BE DEVELOPED BY THE CONTRACTOR AND DRIVEN UP AT APPROPRIATE TIME AND WILL INCLUDE THE FOLLOWING ITEMS:

4. CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.

5. SPECIALIST LANDSCAPE ARCHITECT TO CONFIRM SUITABILITY OF SUGGESTED PLANTING WHICH IS TO BE APPROVED BY THE CONTRACTOR.

**Alan Wood & Partners**

Hull Office  
341 Brewery Road  
Hull  
HU1 1LD

Consulting Civil & Structural Engineers  
Project Managers  
Building Surveyors

Leeds T: 01135 311098  
London T: 01252 200210  
Southampton T: 01703 800464  
York T: 01462 440077  
T: 01604 611504

Project: Proposed Residential Development at Lincolnshire Lakes, Burnham Road

Client: Keptomat Homes

Drawing: Section 104 Layout - Sheet 2

Scale: 1:500

Job No: 45822

Scale: 1:500

Rev: P8

Project Originator: Values Ltd

Project Type: Residential

Project Name: KPPL - AWP - ZZ - XX - DR - C - 3002

Rev	Description	Date	By	Chk	App
P8	UPDATED TO LATEST SITE LAYOUT TO REFLECT HOUSE COMMENTS AND SERVICE MARGINS	14.11.24	JP	BH	JAG
P7	AMENDED TO SUIT F/M COMMENTS	19.08.24	ERD	JP	BH
P6	AMENDED TO SUIT F/M COMMENTS	25.07.24	ERD	JP	BH
P5	S104 LAYOUT AMENDED TO SUIT LATEST	12.02.24	ERD	JP	BH
P4	NORTHERN PARCEL PVT DRAINAGE ADDED	06.11.23	ERD	JP	JAG
P3	S104 LAYOUTS RESCALED TO 1:500	26.09.23	ERD	JP	JAG
P2	PUMP STATION CHAMBERS ADDED	21.09.23	ERD	JP	JAG

Rev Description Date By Chk App