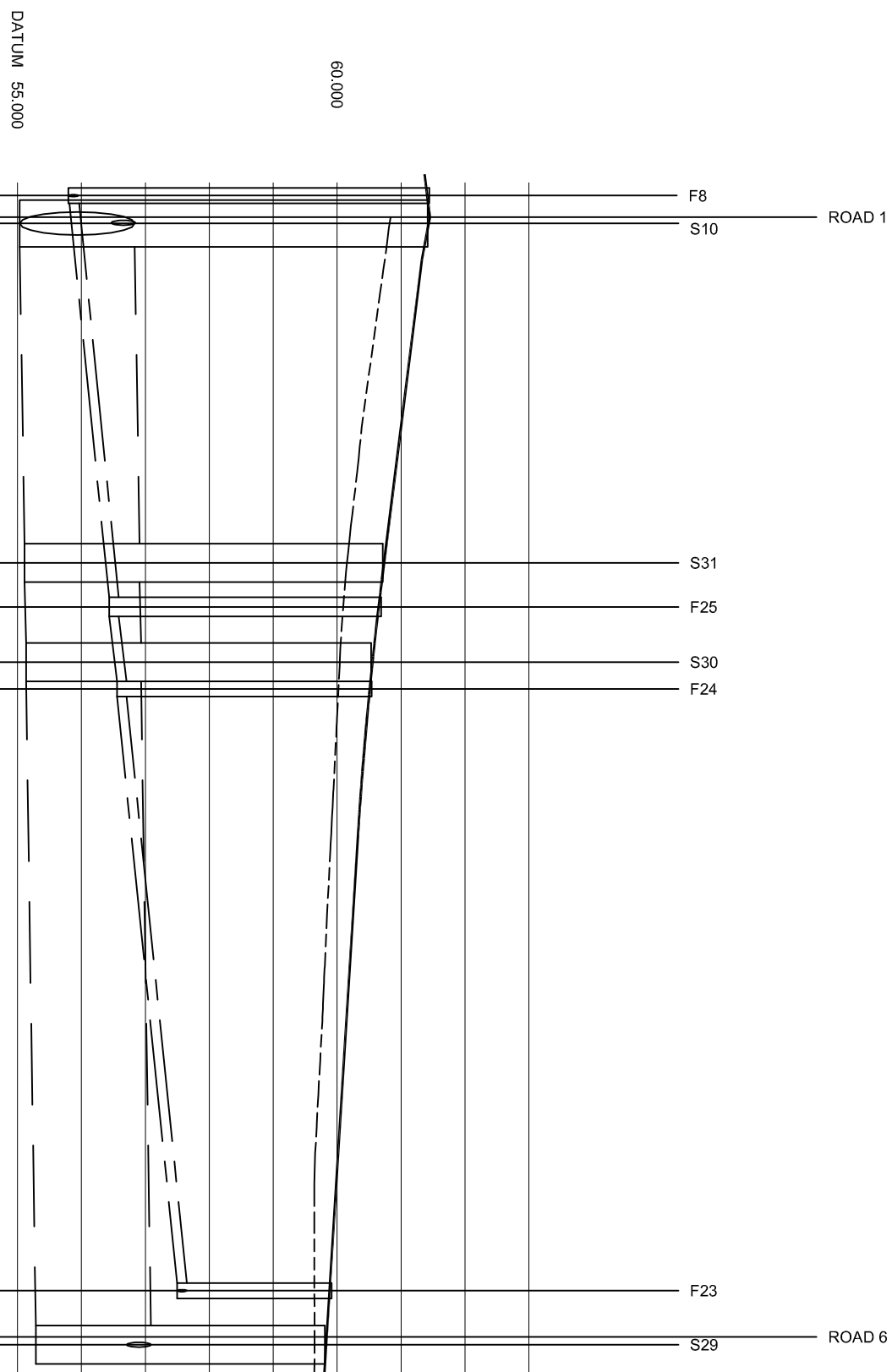
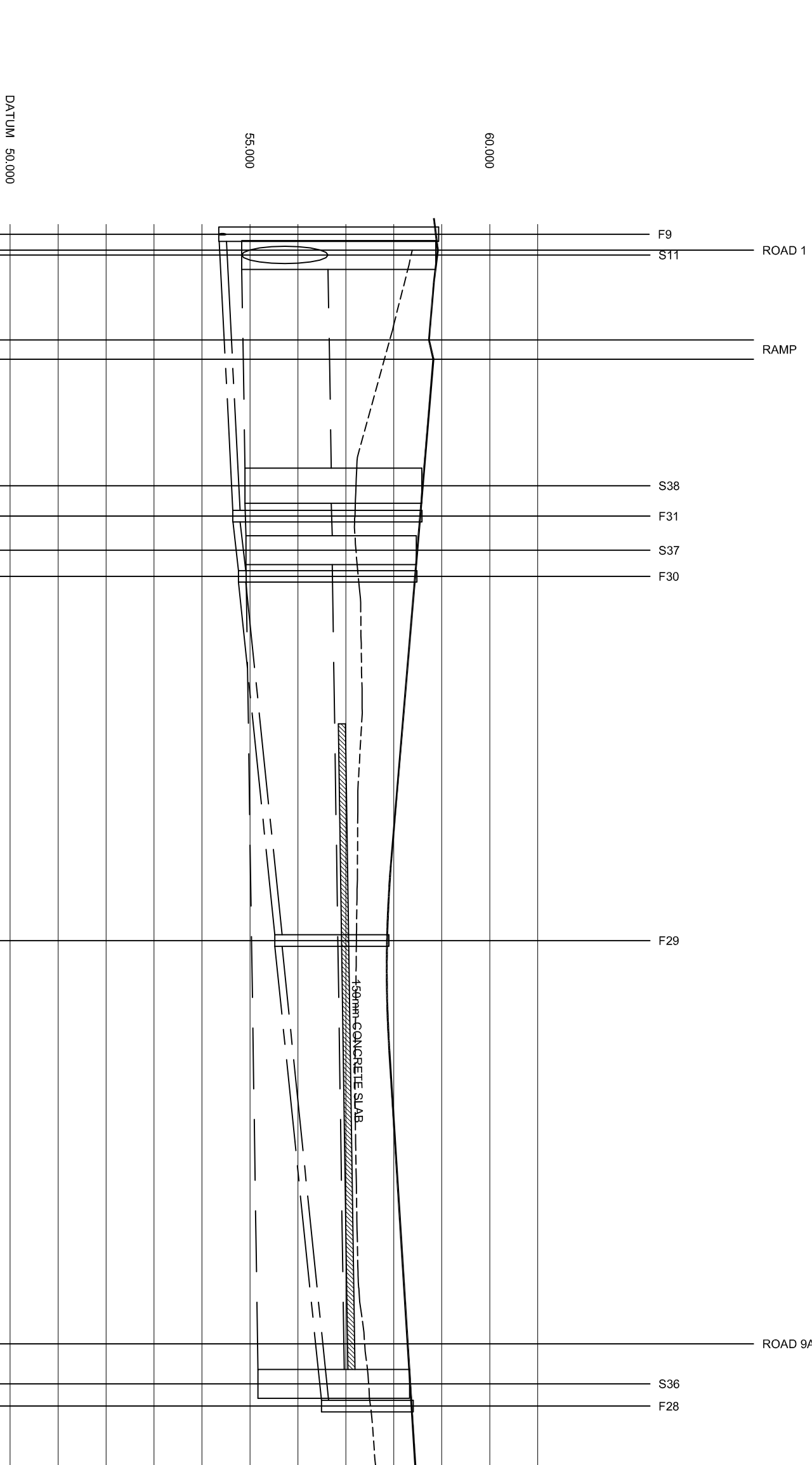
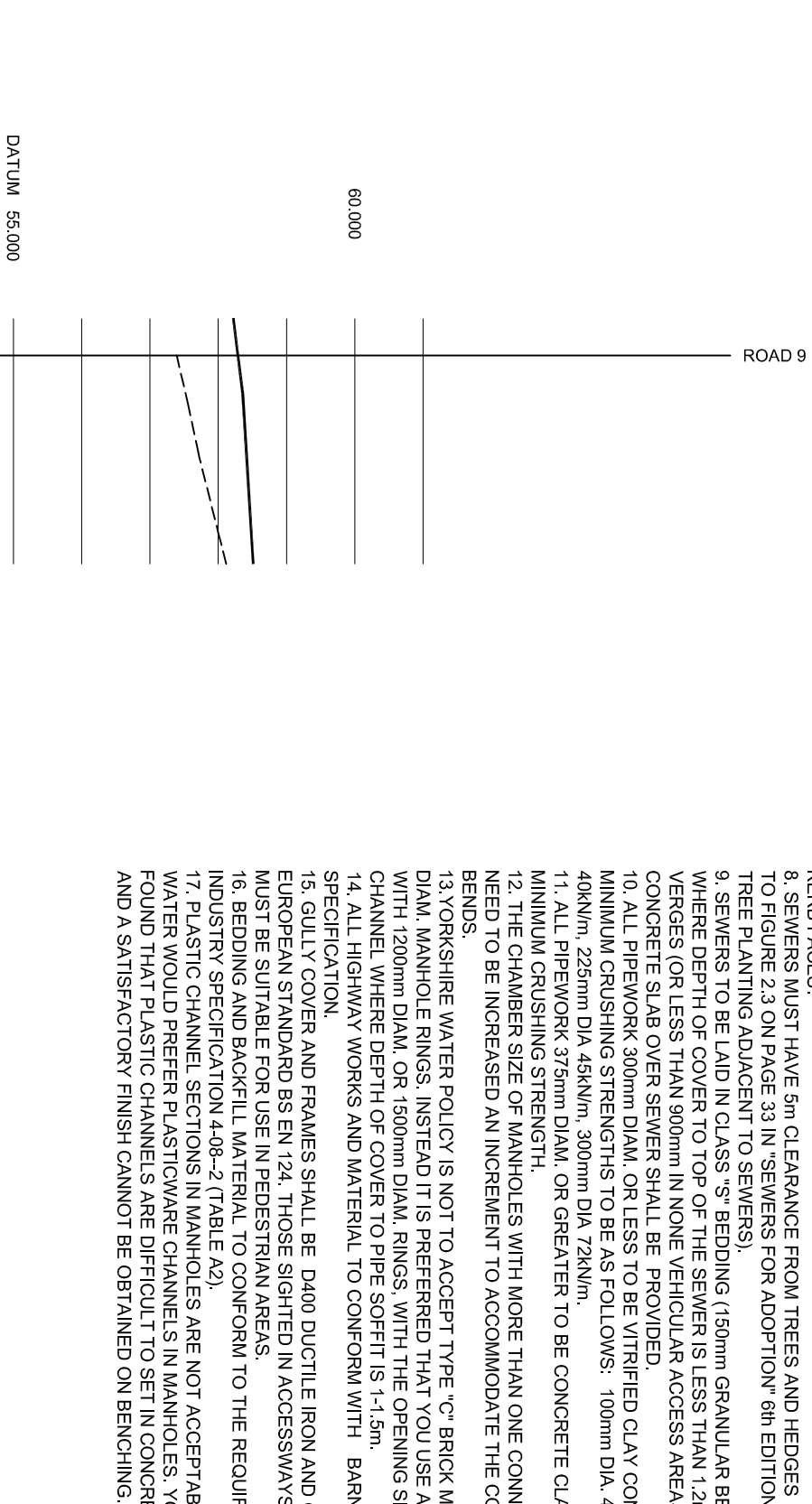




ROAD 8									
DATUM: 55.000									
CHANGE									
EXISTING GROUND LEVEL	60.837	-3.350							
	60.745	-2.855							
ALIGNMENT LEVEL	61.077	10.000							
	60.827	20.000							
VERTICAL ALIGNMENT									
HORIZONTAL ALIGNMENT									
STORMWATER COVER LEVEL	61.418								
STORMWATER INVERT	55.034								
	55.034								
STORMWATER DETAILS									
STORMWATER LENGTHS									
FOLLOWWATER COVER LEVEL	61.443								
FOLLOWWATER INVERT	55.797								
	56.433								
FOLLOWWATER DETAILS									
FOLLOWWATER LENGTHS									



ROAD 9									
DATUM: 50.000									
CHANGE									
EXISTING GROUND LEVEL	58.383	-3.350							
	58.222	-2.855							
ALIGNMENT LEVEL	58.834	6.000							
	58.734	8.000							
VERTICAL ALIGNMENT									
HORIZONTAL ALIGNMENT									
STORMWATER COVER LEVEL	58.875								
STORMWATER INVERT	54.828								
	54.897								
STORMWATER DETAILS									
STORMWATER LENGTHS									
FOLLOWWATER COVER LEVEL	58.935								
FOLLOWWATER INVERT	54.390								
	54.644								
FOLLOWWATER DETAILS									
FOLLOWWATER LENGTHS									



ROAD 9A									
DATUM: 50.000									
CHANGE									
EXISTING GROUND LEVEL	57.392	-2.750							
	57.521	-0.000							
ALIGNMENT LEVEL	58.483	10.000							
	58.514	12.516							
VERTICAL ALIGNMENT									
HORIZONTAL ALIGNMENT									

RISK ASSESSMENT		LEVEL OF RISK	
RISK FACTOR		RISK	
DEEP EXCAVATIONS ASSOCIATED WITH NEW DRAINAGE WORKS		HIGH	
HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES		HIGH	
CONTACT WITH SERVICES		HIGH	
MANHOLE EXCAVATION ADJACENT EXISTING ROADWAY STRUCTURES		HIGH	
WORKING IN OPENED SPACES, WORKING IN DENSE AND UNSTABLE		HIGH	
ROAD AND DRAINAGE CONSTRUCTION		HIGH	
IT IS ASSUMED THAT WORKS ASSOCIATED WITH THE PROPOSED ROAD AND DRAINAGE CONSTRUCTION WILL BE CARRIED OUT BY A PERSON OR PERSONS WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND SUPERVISE		HIGH	

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 6th EDITION, THE RELEVANT BRITISH/SHROPSHIRE AND YORKSHIRE WATERS STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND RETAINMENT.
2. ALL ADOPTABLE SEWER WORKS MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM DIRECTLY OR INDIRECTLY, AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL DRAINAGE AUTHORITY FOR THE DISPOSAL OF THE DISPOSAL OF THE FILTER DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BS1 KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR, WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCTS IS BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPA), TECHNICAL BULLETIN ISSUED AUTUMN 2004 FOR KITEMARKED PRODUCTS.
6. SUBPATE RESISTANT CEMENT (C30/D22) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE MINIMUM COVER SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.6m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES. (PLEASE ALSO REFER TO FIGURE 2.2 ON PAGE 33 IN SEWERS FOR ADOPTION 6th EDITION FOR RESTRICTION ON SEWERS TO BE LAID IN CLASS 'B' BEDDING (150mm GRANULAR BED AND SURROUND) WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2m IN HIGHWAYS AND VERTICES FOR LESS THAN 800mm IN NONE VERTICAL ACCESS AREAS) THEN A 175mm MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 100mm DIA, 40kN/m, 150mm DIA 40kN/m, 225mm DIA 40kN/m, 300mm DIA 72kN/m.
9. THE MINIMUM CRUSHING STRENGTH, OR GREATER TO BE CONCRETE CLASS 20, 54kN/m.
10. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND 13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE 'C' BRICK MANHOLES AND 1000mm DIA OR 1500mm DIA RINGS, INSTEAD IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIA OR 1500mm DIA RINGS WITH THE OPENING SLOTTED OVER THE 14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH BARSLEY MBC SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE SLOTTED DO NOT BE COMPLY WITH 16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 440-2 (TABLE 2).
17. ALL SEWER MANHOLES AND ACCESSWAYS AND NEWS COURTS MUST BE SUITABLE FOR USE IN PESTERIAN AREAS.
18. WATER WOULD PREFER PLASTIC CHANNELS IN MANHOLES YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.



Rev B Foul sewer F31-F9 amended to suit surveyed invert level (F15)
Rev A Proposed road & sewer design amended to suit BMBC highway & YV comments 29.11.16 HH

Client
BARRATT DAVID WILSON HOMES

Project
DEARNE HALL ROAD, LOW BARUGH

Detail
ROAD & SEWER LONG SECTIONS - ROAD 8 & 9

Dwn
DG

Scale
1:5000hor @A1
1:1000ver

Date
Jul'16

Dwg No.
E14/6120/005-04B