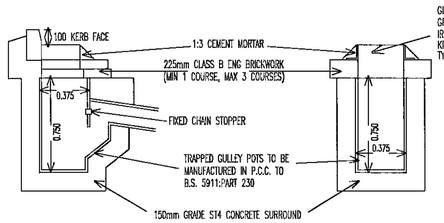
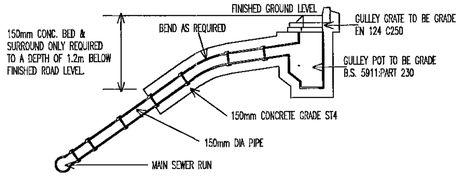


FOOTPATH CROSS OVER SCALE 1:100



GULLEY



GULLEY CONNECTION

Gully Grate and Frame Details

Grade GB 325 – For all Type 4 and Type 5 Roads

All items above to be of Ductile Iron with Captive Hinge.

Gully Pot Details

Type 4 and 5 Roads
A = 750mm
A = 375mm DIA

All Gully Pots to be made from Pre-cast Concrete

Brickwork Details

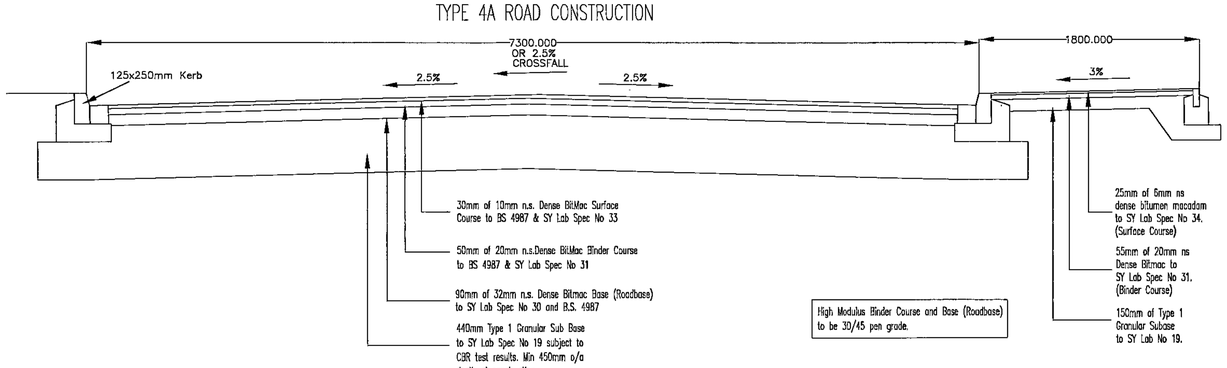
A minimum of 2 courses of solid class B engineering bricks 225mm thick with class 1 mortar, English Bond

A reinforced pre-cast concrete lintel must be used if gully pot has to be spanned

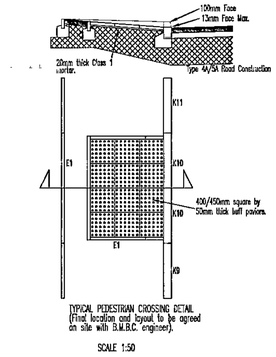
Gully Connection Details

150mm thick class 20/20 concrete bed and surround to all gully connections with flexcell at each joint as far as is required by the engineer

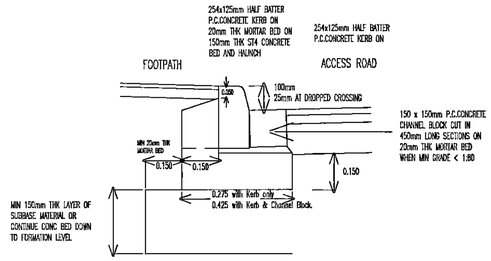
TYPE 4A ROAD CONSTRUCTION



ALL WORKS AND MATERIALS TO CONFORM WITH " General Specification for Roads to be Adopted as Public Highways" –DECEMBER 2001 AS ISSUED BY BMBC PLANNING AND TRANSPORTATION.



SCALE 1:50



KERB CONSTRUCTION DETAIL
TRADITIONAL ESTATE ROAD SCALE 1:10

Barnsley Metropolitan Borough Council

0 4 NOV 2008


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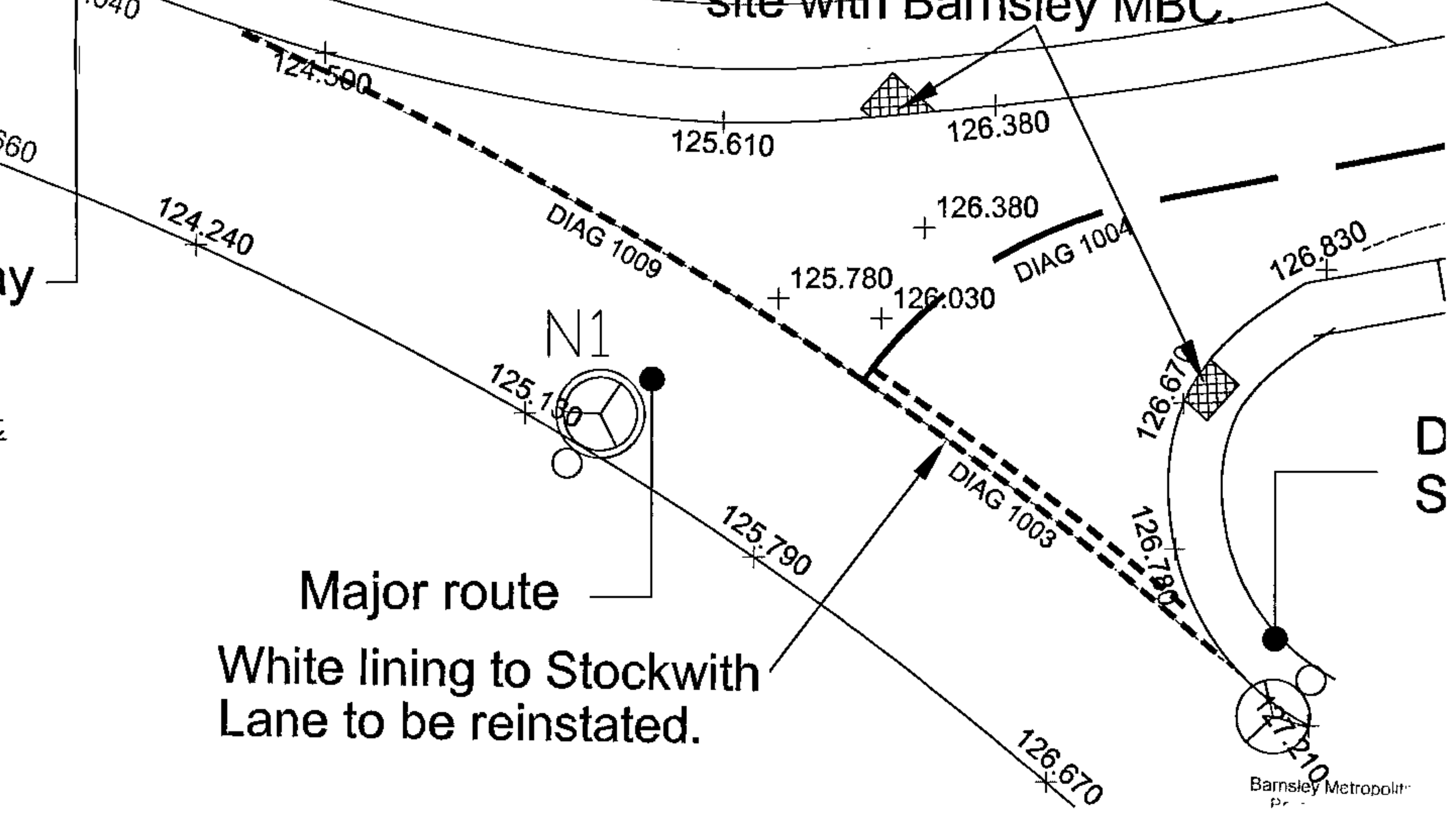
TOWNSEND PLANNING

SHORTWOOD BUSINESS PARK

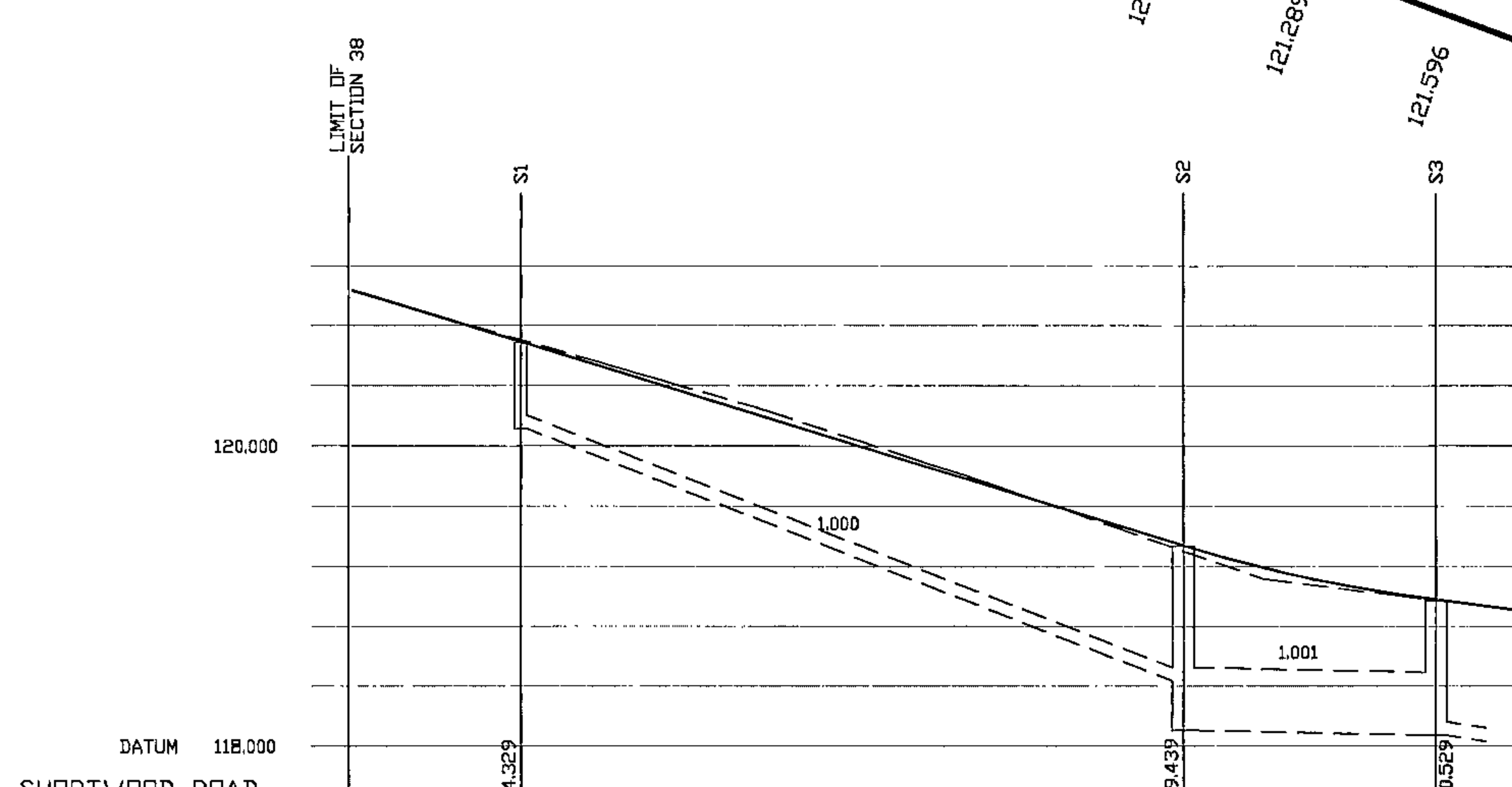
ROAD CONSTRUCTION

Dwn	Chkd	Date	Scale	Dwg No.
SM		FEB'08	1:25	E07/4618/02





1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 6th EDITION, YORKSHIRE WATER AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS OR CLASS B 125 IN FOOTWAYS, PEDESTRIAN AREAS AND COMPARABLE LOCATIONS.
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. YORKSHIRE WATER IS **NOT** OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUNOFF INTO 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 AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BSI 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 600x600mm 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.
6. SULPHATE RESISTANT CEMENT AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES, WHERE IT IS NOT POSSIBLE TO ACHIEVE THIS, A 150mm CONCRETE BED AND SURROUND IS REQUIRED.
9. SEWERS TO BE LAID IN CLASS 'S' 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 150mm CONCRETE BED AND SURROUND SHALL BE USED.
10. ALL PIPEWORK 300mm DIAM. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS: 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA. 72kN/m.
11. ALL PIPEWORK 375mm DIAM. OR GREATER TO BE CONCRETE CLASS 120, 54kN/m MINIMUM CRUSHING STRENGTH.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE 'C' BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAM. OR 1500mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH BARNSLEY METROPOLITAN BOROUGH COUNCIL SPECIFICATION FOR ESTATE ROADS.
15. GULLY COVER AND FRAMES SHALL BE C250 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124. THOSE SIGHTED IN ACCESSWAYS AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS.



SHORTWOOD ROAD

CHAINAGE	0.000, 0.300, 5.000, 10.000, 15.000, 20.000, 21.768, 25.000, 27.217, 30.000, 35.000, 40.000, 45.000, 45.966, 50.000, 55.000, 57.995, 60.000, 65.000, 69.205, 70.000, 80.000, 89.205, 90.000, 95.000, 97.747
EXISTING GROUND LEVEL	122.010, 121.436, 120.865, 120.250, 119.597, 118.910, 118.219, 117.695, 117.448, 117.257
ALIGNMENT LEVEL	122.589, 122.301, 121.994, 121.687, 121.381, 121.074, 120.767, 120.460, 120.154, 119.847, 119.540, 119.233, 118.927, 118.620, 118.362, 118.314, 117.801, 117.484, 117.463, 117.330, 117.257
VERTICAL ALIGNMENT	G= -6.135% 1: -16.3; R= 573.474 L= 20.000; G= -2.647% 1: -37.8
HORIZONTAL ALIGNMENT	R= 200; R= 200
STORMWATER COVER LEVEL	121.714, 118.335, 117.430
STORMWATER INVERT	120.289, 116.089, 115.264, 115.180
STORMWATER DETAILS	Pipe 1.000 Dia 225 Type CLAY 1 in 13; Pipe 1.001 Dia 1050 Type CONC 1 in 251
STORMWATER LENGTHS	55.133; 21.091

Street Lighting Arrangement

Denotes 8M galvanised steel column with 100w Son Arc Lantern complete with electronic PEC.

Denotes existing 8M column.

All materials to comply fully with current BMBC Street Lighting Specification.

It is the responsibility of the developer to advise their clients of the location of street lighting columns relative to their property and to programme column installation works commensurate with property occupation.
Column positions may be adjusted slightly to suit site conditions and services, but must not normally be erected within 500mm of defined driveway boundaries.
BMBC will not enter into third party discussion on column positions, any such discussions will be carried out between BMBC and the developer.

The street lighting columns and lanterns and their maintenance remain the responsiblity of the developer until completion of the adoption process.

All lighting columns are to be provided with an unmetered single phase electricity supply via the REC cable network.
It is expected that the developer will coordinate with the REC regarding the installation of any cable ducts they may require.

Barnsley Metropolitan ...
04 NOV 2008

Rev C. Street lighting columns added 07.08.08 MD
Rev B. White lining and dropped crossing locations added 05.08.08 MD
Rev A. Drainage added to layout and section 05.03.08 SM

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TOWNSEND PLANNING

SHORTWOOD BUSINESS PARK

ROAD LAYOUT LONG SECTION

Dwn	Chkd	Date	Scale	Dwg No.
SM		FEB'08	1:200	EO8/4618/01C