

YORKSHIRE WATER NOTES:-

1) ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION" 6TH EDITION, THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM 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 HIGHWAY.

3) 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.

4) FILL GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.

5) YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUNOFF INTO 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 LOCAL AUTHORITY, LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUNOFF.

6) 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 TO 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.

7) SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING SUCH PRECAUTIONS ARE NOT NECESSARY.

8) THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5M FORM KERB FACES AND SERVICE MARGINS.

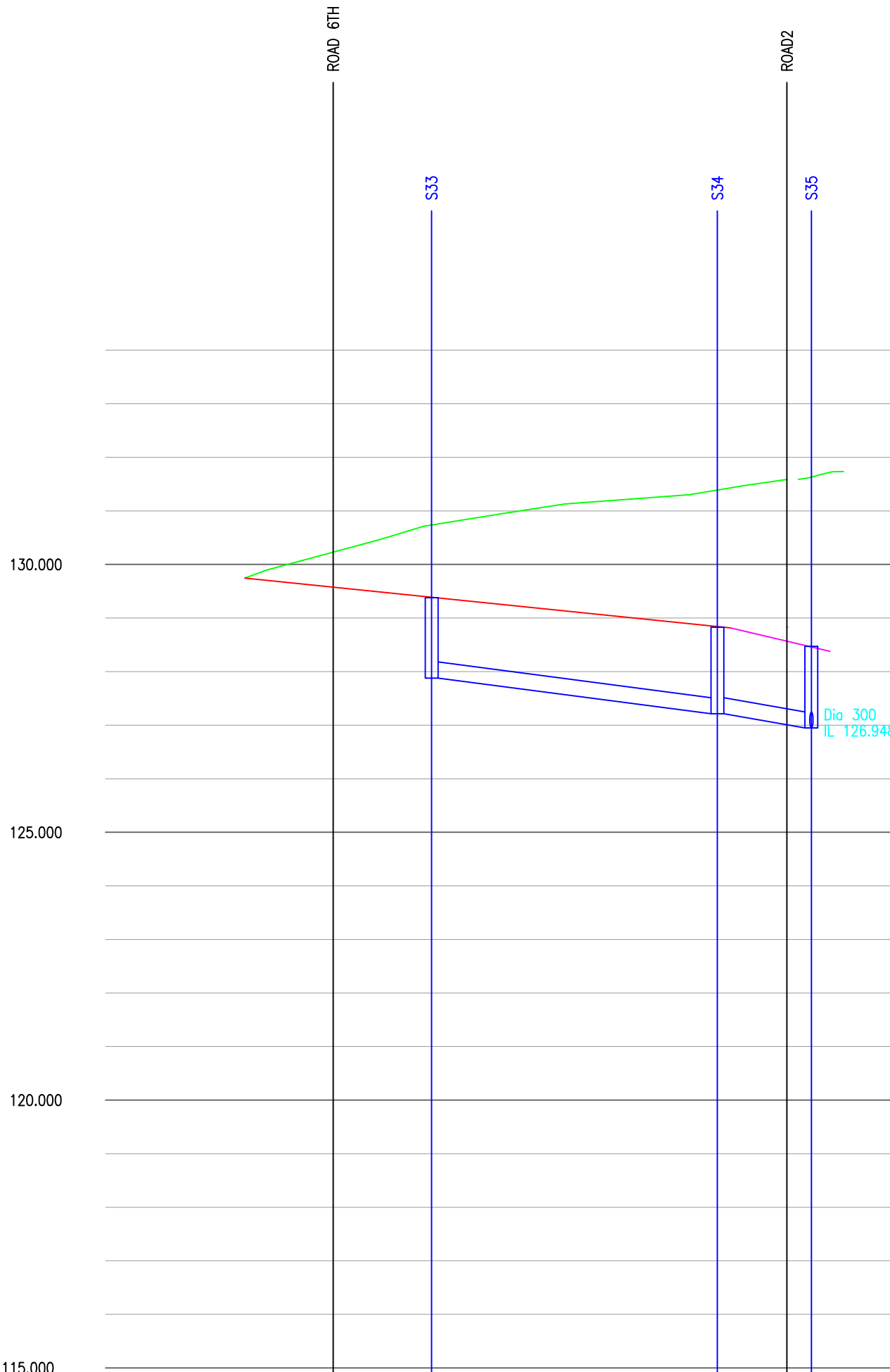
9) "SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES (PLEASE ALSO REFER TO FIGURE 2.3 ON PAGE 33 IN "SEWERS FOR ADOPTION" 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS)".

10) SEWERS TO BE LAID IN CLASS "S" BEDDING (150mm GRANULAR BEDDING AND SURROUND). WHERE DEPTH OF COVER TO TOP OF 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.

11) BEDDING AND BACKFILL MATERIAL TO CONFORM TO REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).

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 DIA MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200mm DIA OR 1500mm DIA RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.



DATUM 115.000
ROAD 6

CHAINAGE	0.000	8.250	10.000	17.441	20.000	30.000	40.000	44.132	50.628	52.911
EXISTING GROUND LEVEL	129.746	130.324	130.819	131.131	131.280	131.571	131.589			
ALIGNMENT LEVEL	129.746	129.541	129.336	129.131	128.926	128.764				
VERTICAL ALIGNMENT		G= -2.051% 1: -48.8								
HORIZONTAL ALIGNMENT										
STORMWATER COVER LEVEL		129.380					128.830			128.470
STORMWATER INVERT			127.880				127.213		127.213	126.948
STORMWATER DETAILS				Pipe 4.000 Dia 300 Circular CLAY 1 in 40 Class S Bedding C.S.=72KN/m			Pipe 4.001 Dia 300 Circular CLAY 1 in 40 Class S Bedding C.S.=72KN/m			
STORMWATER LENGTHS				26.692			10.634			



DATUM 115.000
ROAD 6TH

CHAINAGE	0.000	2.586	10.000	14.250
EXISTING GROUND LEVEL	130.229	130.580	130.602	
ALIGNMENT LEVEL	129.627	130.008	130.220	
VERTICAL ALIGNMENT		G= 5.000% 1: 20.0		
HORIZONTAL ALIGNMENT				

Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO.

CONSTRUCTION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

NOTE:-
DETAILS SHOWN ARE SUBJECT TO SECTION 38/104 APPROVAL. ADDITIONAL WORKS & MATERIALS COULD BE REQUIRED.

NOTE
ALL PIPES HAVE A MINIMUM OF 300MM CLEARANCE AS REQUESTED.

E	26/09/18	NOTE ADDED	MJS	DS	CM
D	16/09/18	UPDATED TO SUIT LATEST LAYOUT AND NOTE ADDED	MJS	DS	JRT
C	16/09/18	UPDATED TO SUIT YORKSHIRE WATERS COMMENTS VIA EMAIL DATED 10/11/2017	MJS	DS	JRT
B	26/09/18	YORKSHIRE WATER NOTE ADDED	MJS	DS	JRT
A	24/10/17	NOTE ADDED.	DAS		
Rev.	Date	Description	Drwn.	Chkd.	Appd.

FAIRHURST
51a St. Pauls Street
LEEDS
LS1 2TE
Tel: 0113 243 4671
Fax: 0844 381 4412

Project Title:
**KEEPMOAT HOMES
ASHBROW ROAD
HUDDERSFIELD**

Drawing Title:
**SECTION 38 & 104
LONGITUDINAL SECTIONS
SHEET 5**

Scale at A1: 1:20	Status: Preliminary	
Drawn: MS	Checked:	Approved:
Date: 15/09/17	Date:	Date:

Drawing No.: 114509/2029	Revision: E
------------------------------------	-----------------------