Existing combined sewer to remain
Existing chamber and adjustment to channels to be approved by YW inspector

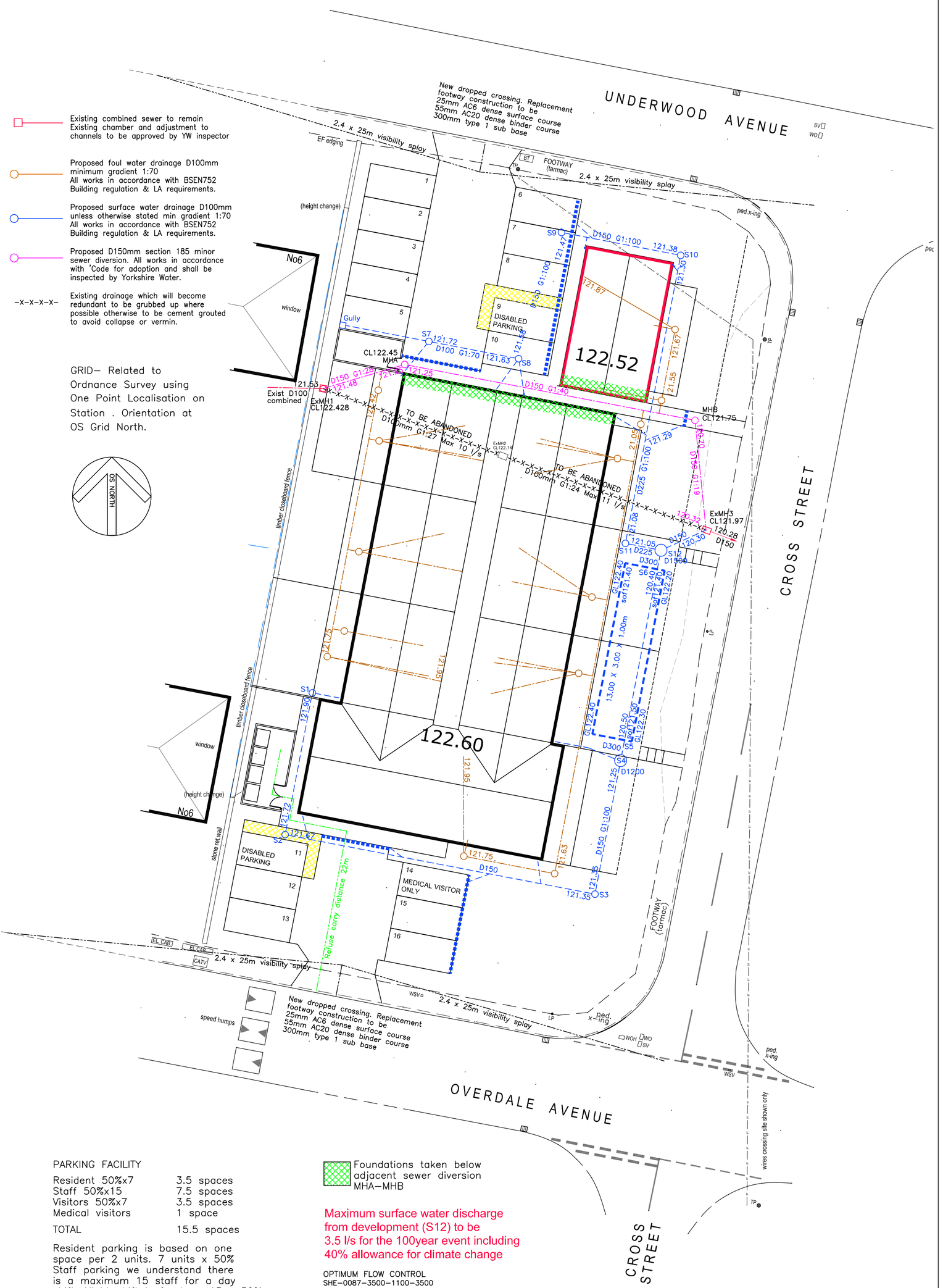
Proposed foul water drainage D100mm minimum gradient 1:70
All works in accordance with BSEN752 Building regulation & LA requirements.

Proposed surface water drainage D100mm unless otherwise stated min gradient 1:70
All works in accordance with BSEN752 Building regulation & LA requirements.

Proposed D150mm section 185 minor sewer diversion. All works in accordance with 'Code for adoption and shall be inspected by Yorkshire Water.

Existing drainage which will become redundant to be grubbed up where possible otherwise to be cement grouted to avoid collapse or vermin.

GRID— Related to Ordnance Survey using One Point Localisation on Station . Orientation at OS Grid North.



PARKING FACILITY

Resident 50%x7	3.5 spaces
Staff 50%x15	7.5 spaces
Visitors 50%x7	3.5 spaces
Medical visitors	1 space
TOTAL	15.5 spaces

Resident parking is based on one space per 2 units. 7 units x 50% Staff parking we understand there is a maximum 15 staff for a day shift. Night shift is far less. 15 x 50% Visitor parking we have assumed one space per 2 units. 7 units x 50% Medical visitor is as required we have allowed one space which will be signed.

A 7day survey was carried out at a development of the same size, Apricus, 20 Yew Lane S5 9AN.
32 cars used the car park in the week including staff, visitors and professionals 6 cars per week. The heaviest day saw 12 cars in one day.

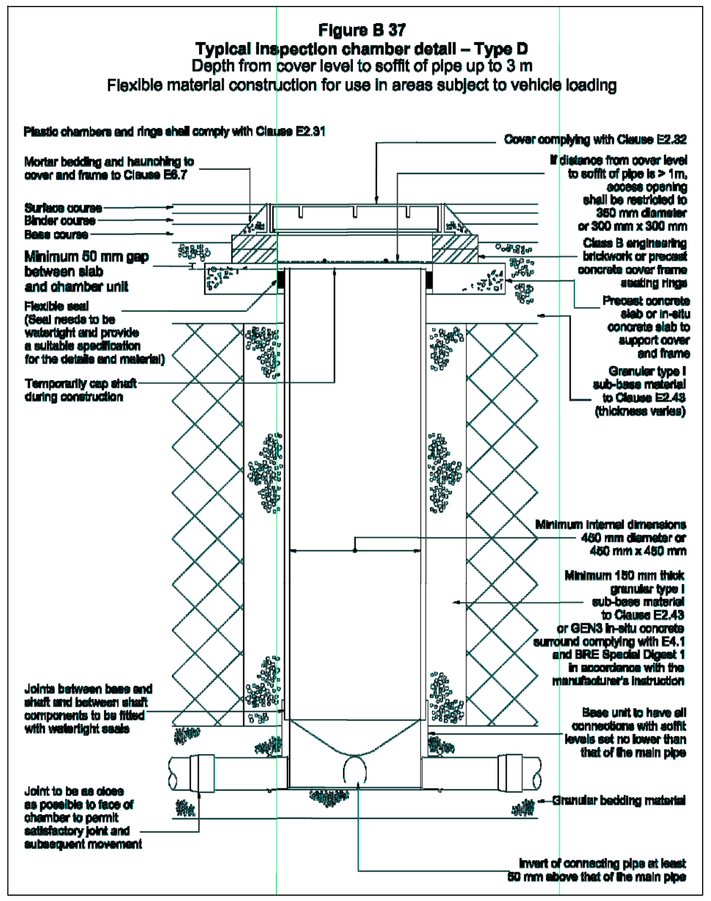
Foundations taken below adjacent sewer diversion MHA—MHB

Maximum surface water discharge from development (S12) to be 3.5 l/s for the 100year event including 40% allowance for climate change

OPTIMUM FLOW CONTROL
SHE—0087—3500—1100—3500
bypass door from
Hydro International UK
Shearwater House
Clevedon Hall Estate
Victoria Road
Clevedon BS21 7RD
Tel 01275 878371
Head 1.10m Flow 3.5 lts/sec

Refuse carry distance 22m
Schedule 1, part H Building Regulations maximum 25m

Figure B 37
Typical inspection chamber detail – Type D
Depth from cover level to soffit of pipe up to 3 m
Flexible material construction for use in areas subject to vehicle loading

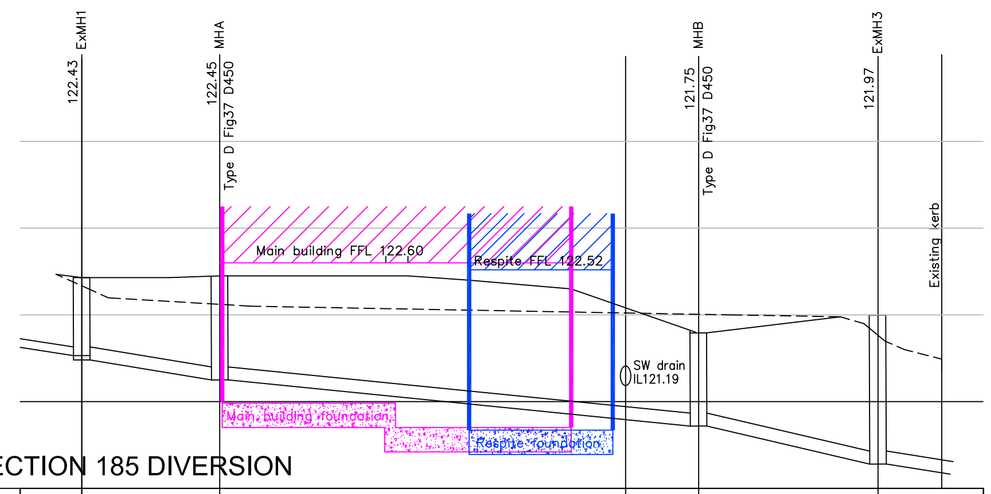


1. THIS DRAWING IS BASED UPON JVN ARCHITECTS SITE LAYOUT AND HAYCOCK & TODD TOPOGRAPHICAL SURVEY DRAWING
2. ALL LEVELS AND DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF IN DOUBT, ASK.
3. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH IWNL'S SPECIFICATIONS/SPECIAL REQUIREMENTS.
4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS DRAWINGS AND SPECIFICATIONS.
5. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752, BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REGULATIONS.
6. ANY DRAINAGE OUTLETS SHOWN AS 'OPTIONAL' ON THE ARCHITECTS SERVICE LAYOUTS ONLY TO BE INCLUDED AT THE DISCRETION OF THE SITE MANAGER.
7. ALL DRAINAGE PIPES ARE 100mm DIAMETER UNLESS STATED OTHERWISE.
8. WHERE POSSIBLE THE HIGHEST INCOMING FLOW MUST ALWAYS BE DIRECTED TO FLOW THROUGH THE MAIN CHANNEL OF THE PPIC. THE PPIC IS TO BE ROTATED TO SUIT AND SWEPT BENDS USED AS NECESSARY FOR OTHER INCOMING FLOWS
9. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT & DIVERSION WORKS AS NECESSARY TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE PUBLIC UTILITY COMPANIES.
10. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL RELEVANT APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON SEWERAGE SYSTEMS.
11. UPON COMPLETION OF THE WORKS, THE CONTRACTOR SHALL CLEAN ALL DRAINAGE BY JETTING, REMOVING ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC DRAINAGE OR WATERCOURSE SYSTEM. ALL ADOPTABLE DRAINS & GULLIES SHALL BE CCTV SURVEYED WITH THE DATA PASSED TO THE ENGINEER FOR REVIEW.

COMBINED SEWER DIVERSION – SECTION 185
Existing MH1 & MH3 to be inspected and channels adjusted subject to approval of YW.
A new D150mm Ultrarib sewer to be constructed between ExMH1—MHA—MHB—ExMH3
The sewer is located under a footway and approx 1.15—0.9m cover, therefore granular surround is acceptable. Adjacent building foundations are to be taken below invert of diverted sewer
The existing sewer is D100mm and a minimum gradient of 1:26.6 having a full bore capacity of 10 l/s, the proposed diversion is D150mm with a minimum gradient of 1:40 having a full bore capacity of 24 l/s therefore satisfactory

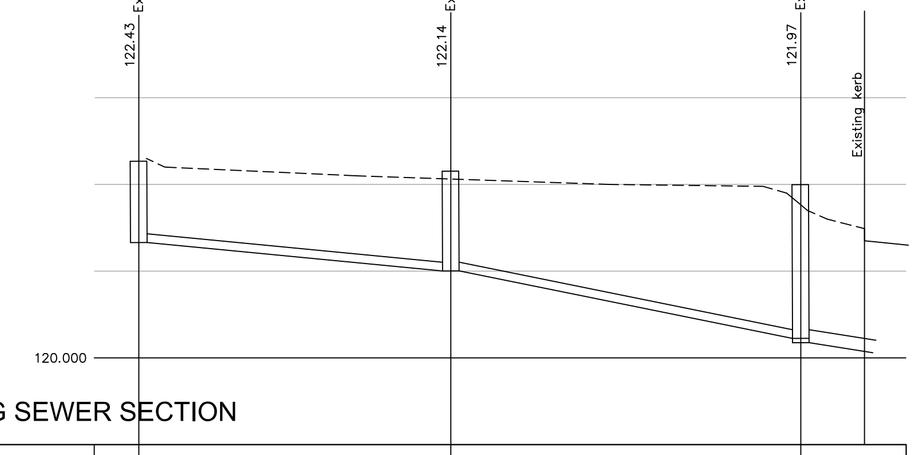
MHA and MHB will be D450mm plastic inspection chambers fitted with reducer and B125 cover and frame

Once diversion is complete the existing sewer and ExMH2 will be grubbed up.



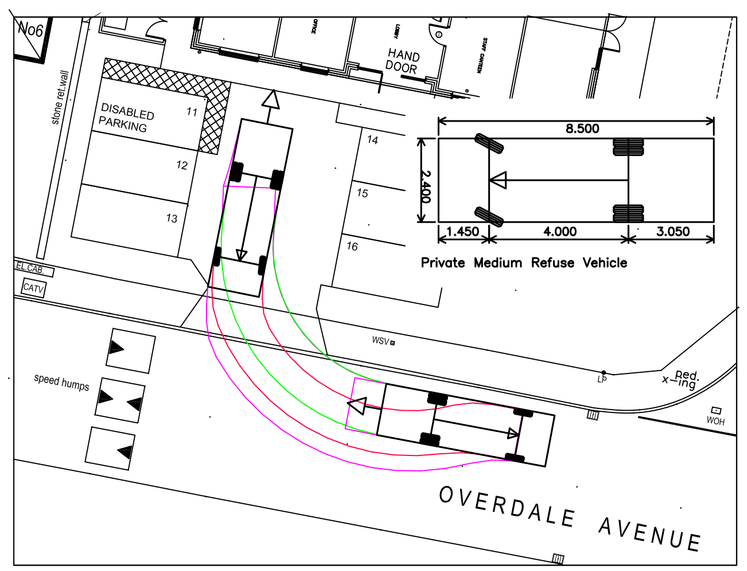
PROPOSED SECTION 185 DIVERSION

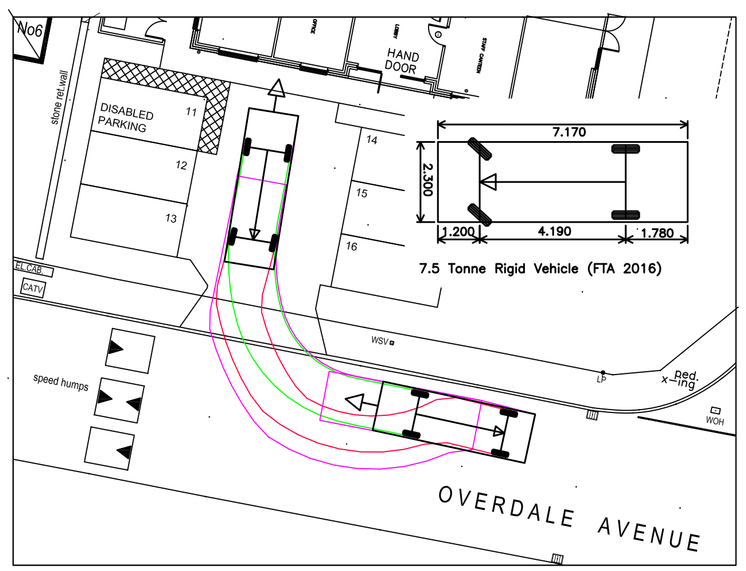
CHAINAGE												
EXISTING GROUND LEVEL	122.47	122.43	122.45	122.45	122.40	122.30	122.15	121.95	121.80	121.80	121.70	121.60	121.49	121.35
FOULWATER INVERT	121.528 / 121.478		121.250 / 121.250					120.700 / 120.700		120.276 / 120.276				
FOULWATER DETAILS		DIVERSION Dia 150 Circular CLAY 1 in 28 BSEN 295—1:1991		DIVERSION Dia 150 Circular CLAY 1 in 40 BSEN 295—1:1991					DIVERSION Dia 150 Circular CLAY 1 in 19 BSEN 295—1:1991					
FOULWATER LENGTHS		45kN/m 6.36 Type S granular surround		45kN/m 22.09 Type S granular surround					45kN/m 8.24 Type S granular surround					



EXISTING SEWER SECTION

CHAINAGE												
EXISTING GROUND LEVEL	122.30	122.20	122.10				122.00			121.90	121.80	121.70	121.60	121.49	121.35
FOULWATER INVERT	121.528	121.528	EXISTING Dia 100 Circular CLAY 1 in 26.6		120.992	120.992	EXISTING Dia 100 Circular CLAY 1 in 24.4			120.326	120.276				
FOULWATER DETAILS			14.39				16.14								





D. S10—S11—S12 increased to D225 7—8—26
C. Further detail added following highway comments 6—8—26
B. Full details added for section 185 diversion and private drainage for client comment 4—8—26
A. Further detail added for client comment 30—6—26

R.A.B. ENGINEERING DESIGN LTD
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SHEFFIELD S35 1AB
TEL.(0114)2464871

JVN

Cross Street / Overdale Avenue
Wosborough
Drainage layout

DRAWN BY rab
SCALE 1:200 ISO A2 DATE Apr26
1188-99 1188-98 D

PRELIMINARY ONLY