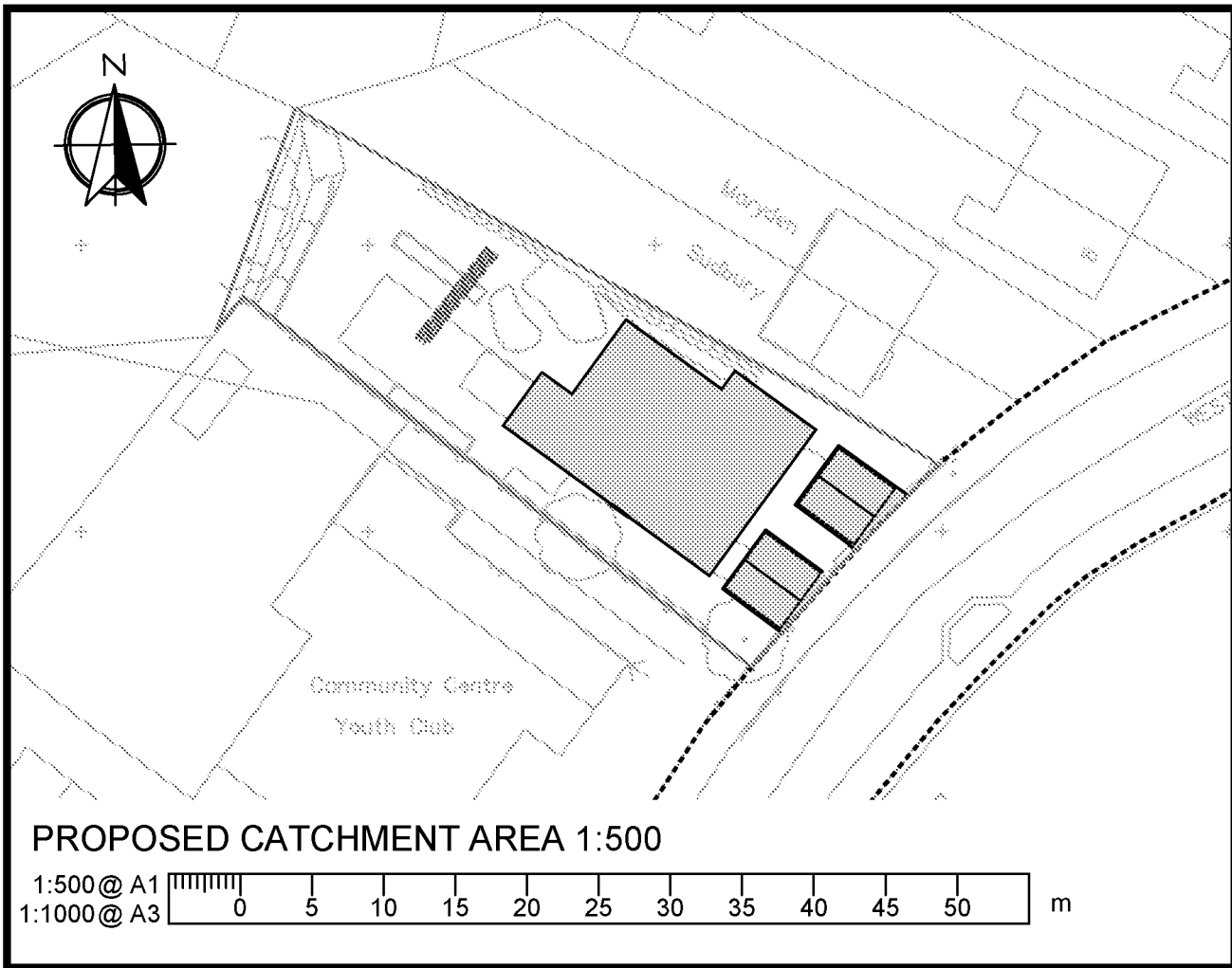
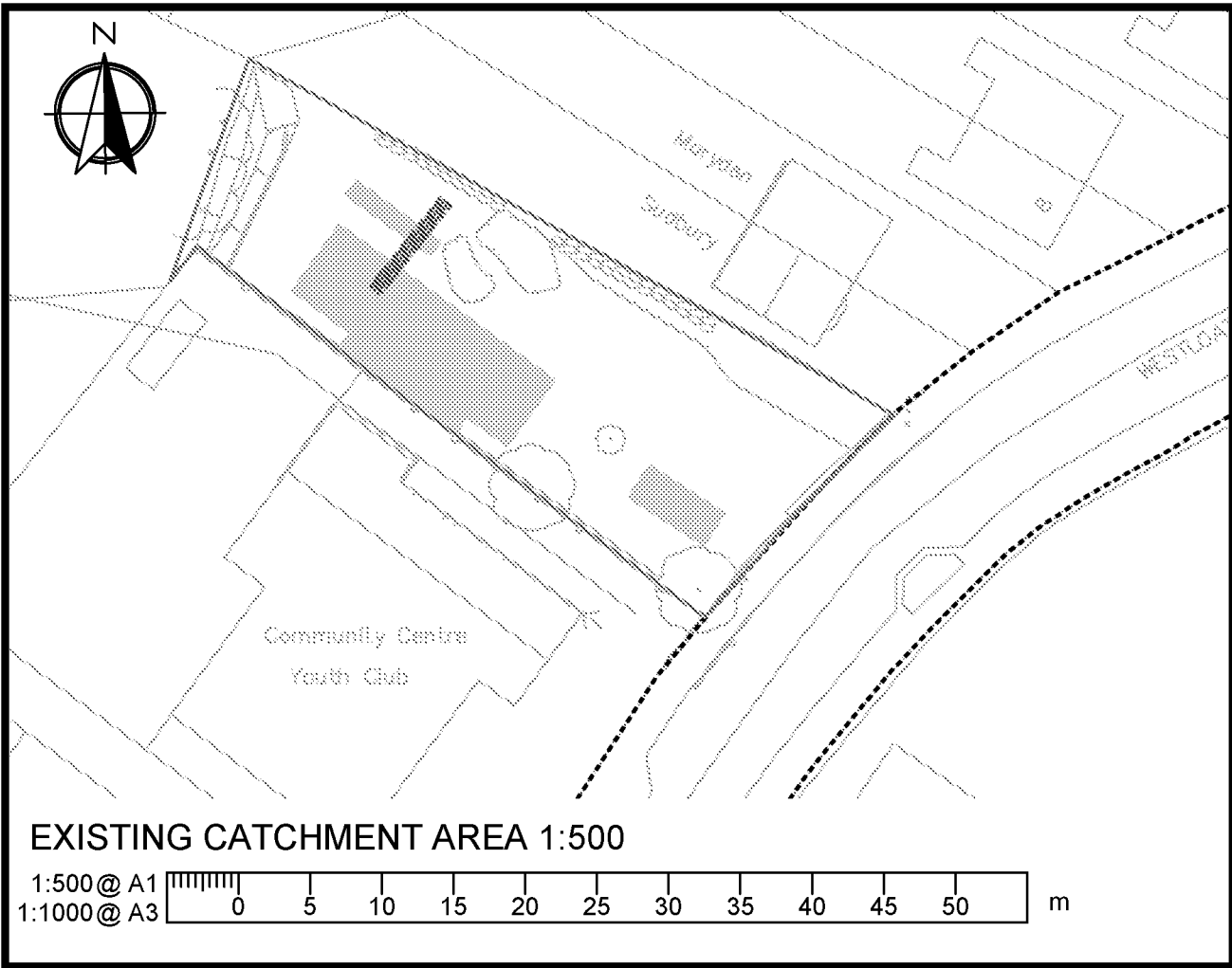




DRAINAGE NOTES:

1. ALL DRAINAGE WORKS TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH SPECIFICATION OF THE LOCAL AUTHORITY, BUILDING REGULATIONS, SEWERS FOR ADOPTION, BSS301 & BSEN 752-1.
2. FOR LOCATION AND SETTING OUT OF BUILDING DRAINAGE POINTS REFER TO ARCHITECTS DRAWINGS.
3. ALL PIPE RUNS NEAR BUILDINGS TO COMPLY WITH THE BUILDING REGULATIONS 2002 PART H1. WHERE A PIPE IS WITHIN 1m OF A FOUNDATION THE TRENCH SHALL BE FILLED WITH CLASS GEN3 CONCRETE UP TO THE LOWEST LEVEL OF THE FOUNDATION. WHERE THE TRENCH IS FURTHER THAN 1m FROM THE FOUNDATION, THE TRENCH SHALL BE FILLED WITH CLASS GEN3 CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL. FOR THE FOUNDATION EQUAL TO THE DISTANCE FROM THE FOUNDATION LESS 150mm. IN BOTH CASES THE PIPE SHALL BE BEDDED AND SURROUNDED IN 150mm THICK CLASS GEN3 CONCRETE.
4. WHERE PIPES, EXTERNAL TO THE STRUCTURES, HAVE A DEPTH TO SOFFIT FROM GROUND LEVEL OF LESS THAN 450mm THEY SHALL HAVE A CLASS GEN3 CONCRETE ENCASEMENT (150mm THICK).
5. WHERE A PIPE, UNDER A VEHICULAR AREA, HAS A DEPTH OF COVER OF LESS THAN 0.9m THE PIPE SHALL BE LAID IN A CONCRETE BED AND SURROUND.
6. IN ANY CIRCUMSTANCES WHERE PIPES ARE BEDDED AND SURROUNDED IN CONCRETE FLEXIBLE JOINTS SHOULD BE PROVIDED. COMPRESSIBLE BOARDS (FIBREBOARD OR POLYSTYRENE) SHALL BE PROVIDED AT A MAXIMUM OF 8m CENTRES (COINCIDING WITH PIPE JOINTS). THE BOARDS SHALL BE PRE-CUT TO PIPE DIAMETER AND TO A HEIGHT AND WIDTH EQUAL TO THE CONCRETE CROSS SECTION. A BOARD THICKNESS OF 18mm FOR PIPES UP TO 450mm NOMINAL DIAMETER AND 36mm FOR PIPES OVER 450mm NOMINAL DIAMETER.
7. ALL PRIVATE BUILDING DRAINAGE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH BSEN 752-1. UNLESS OTHERWISE SPECIFIED BUILDING DRAINAGE SHALL BE 100mm DIAMETER AND SHALL BE LAID AT A MINIMUM GRADIENT OF $<1L/S = 1$ IN 40/ $>1L/S = 1$ IN 80) FOR FOUL DRAINS AND 1 IN 80 FOR SURFACE WATER DRAINS. ALL BUILDING DRAINS SHALL BE LAID IN CONJUNCTION WITH 'NON ADOPTIVE BEDDING DETAILS' (CLASS D, N OR B) UNLESS OTHERWISE SPECIFIED.
8. ALL PIPES, BENDS AND JUNCTION FOR PRIVATE BUILDING DRAINAGE SHALL BE UPVC CONFORMING TO BS4680 AND BSS481 AS APPROPRIATE AND SHALL BE LAID IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. ALL PIPES, BENDS AND JUNCTION MATERIALS FOR ADOPTABLE DRAINAGE SHALL BE VITRIFIED CLAY, EXTRA STRENGTH OR SUPER STRENGTH TO BSEN295, WITH FLEXIBLE JOINTS AND KITEMARK CERTIFIED
9. ALL BACK INLET GULLIES TO BE RODDABLE OR CONNECTED TO INSPECTION CHAMBERS.
10. ALL GULLY CONNECTIONS OTHER THAN AT MANHOLES TO BE 'Y' JUNCTIONS.
11. ALL ROAD GULLY CONNECTIONS TO BE 150mm DIAMETER.
12. ALL STUB STACKS TO BE FITTED WITH AIR ADMITTANCE VALVES WHERE BRANCH DRAIN EXCEEDS 12m EXCEPT AT THE HEAD OF THE RUN. SOIL VENT PIPES LOCATED AT THE HEAD OF A RUN TO TERMINATE TO FRESH AIR.
13. ALL CONNECTIONS TO BE SOFFIT TO SOFFIT UNLESS OTHERWISE NOTED.
14. ALL CONCRETE AND CONCRETE PRODUCTS TO BE IN ACCORDANCE WITH BRE 363 FOR SULPHATES.
15. THE LOCATIONS OF ALL SVPS AND RWPS SHALL BE CROSS REFERENCED AGAINST THE ARCHITECTS DRAWINGS DURING SETTING OUT.
16. BEFORE CONNECTIONS ARE MADE TO EXISTING PUBLIC SEWERS AN APPLICATION UNDER 106 MUST BE MADE TO THAMES WATER.
17. THE PRECISE DEPTH AND LOCATION AND SIZE OF EXISTING PIPES OR MANHOLES WHERE CONNECTIONS OR DIVERSION ARE PROPOSED MUST BE CONFIRMED AND REPORTED TO THE ENGINEER AT THE EARLIEST OPPORTUNITY.
18. WHERE INSPECTION COVERS ARE LOCATED IN AREAS OF BLOCK PAVING OR PAVING SLABS THEY SHALL BE FITTED WITH RECESSED COVERS AND INFILLED WITH THE ADJACENT MATERIAL.

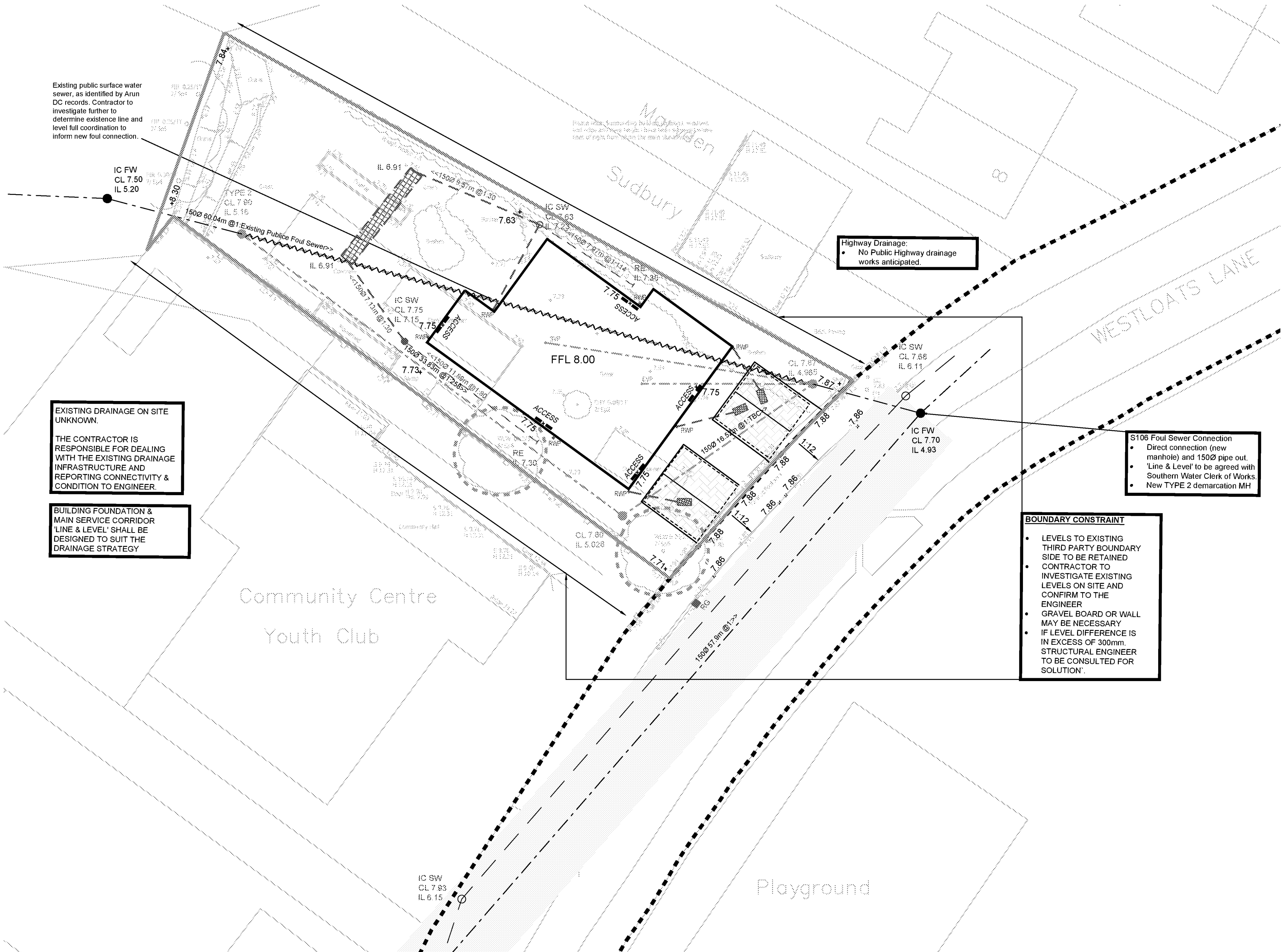


-CATCHMENT KEY-	
	Existing Highway Catchment TOTAL = 147m ²
	Proposed Highway Catchment TOTAL = 247m ²

Existing public surface water sewer, as identified by Arun DC records. Contractor to investigate further to determine existence line and level full coordination to inform new foul connection.

EXISTING DRAINAGE ON SITE UNKNOWN.
THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH THE EXISTING DRAINAGE INFRASTRUCTURE AND REPORTING CONNECTIVITY & CONDITION TO ENGINEER.

BUILDING FOUNDATION & MAIN SERVICE CORRIDOR 'LINE & LEVEL' SHALL BE DESIGNED TO SUIT THE DRAINAGE STRATEGY



EXISTING DRAINAGE ON SITE UNKNOWN.
THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH THE EXISTING DRAINAGE INFRASTRUCTURE AND REPORTING CONNECTIVITY & CONDITION TO ENGINEER.

BUILDING FOUNDATION & MAIN SERVICE CORRIDOR 'LINE & LEVEL' SHALL BE DESIGNED TO SUIT THE DRAINAGE STRATEGY

- SURFACE WATER STRATEGY-**
- Surface water disposal should be managed in view of the SuDS hierarchy:
 1. Infiltration
 2. Watercourse
 3. Public Surface Water Sewer(s)
 - Existing impermeable area will be 457m² and the post development impermeable area will be 150m² resulting in a nominal reduction.
 - Soakaway designed to accommodate 1:100 year critical design storm (+ 40% for climate change).
 - Soakaway based on assumed infiltration of 1x10⁻⁵ m/s. Full scale tests to be undertaken to confirm rate.

- FOUL WATER STRATEGY-**
- Foul water disposal should adhere to the following hierarchy:
 1. Public Sewer
 2. Private Treatment Plant
 3. Septic Tank and Drainage Field
 4. Cesspool
 - It is proposed that the development will be subject to a new foul water connection to the front of the site subject to the S106 application, with a 1500 pipe.
 - Post development peak foul water flows will amount to 0.06ls.

DRAWING LEGEND					
SURFACE WATER DRAINAGE		FOUL WATER DRAINAGE		BACKDROP CONNECTION	
CL ## ## IL ## ##	INSPECTION CHAMBER (MAX 0.6m DEPTH TO INVERT, CP DENOTES CATCHMENT)	CL ## ## IL ## ##	INSPECTION CHAMBER (MAX 1.2m DEPTH TO INVERT)	FFL 7.85	PROPOSED FINISH FLOOR LEVEL
RE IL ## ##	RODDING EYE WITH ALUMINIUM COVER	---	FOUL WATER DRAINAGE	53.800	PROPOSED SPOT LEVEL
---	SURFACE WATER DRAINAGE	+	DENOTES SVP VENTING TO ATMOSPHERE (OTHERS SVPS CAN BE FITTED WITH AAVS)	53.800	EXISTING SPOT LEVEL
	CELLULAR SOAKAWAY	---	EXISTING FOUL DRAINAGE		EXISTING FOUL DRAIN / SEWER INSPECTION CHAMBER
	BLOCK POROUS PAVING	---	EXISTING STORM DRAINAGE		EXISTING STORM DRAIN / SEWER INSPECTION CHAMBER
	PROPOSED PUBLIC / FOUL WATER SEWER TO BE DIVERTED / GRUBBED UP	RG	EXISTING HIGHWAY DRAIN/HIGHWAY MANHOLE		HIGHWAY BOUNDARY
---	SITE BOUNDARY	ACCESS	THRESHOLD / ACCESS		TREE ROOT PROTECTION ZONE

DEPTH OF EXISTING SEWERS
INFORMATION RELATING TO THE DEPTHS OF EXISTING PUBLIC FOUL WATER SEWER LOCATED IN BLM GROVE HAS BEEN OBTAINED FROM PUBLIC SEWER RECORDS PROVIDED BY SOUTHERN WATER
THE TOPOGRAPHICAL SURVEY OF THE SITE HAS BEEN CONDUCTED TO BITE DATUM, NOT OS DATUM. THE INVERT LEVEL OF THE PUBLIC FOUL WATER SEWER HAS BEEN INTERPOLATED USING RECURRING FEATURES FOUND ON THE SURVEY
INVERT LEVELS TO BE CONFIRMED ON SITE PRIOR TO WORKS BEING UNDERTAKEN. NO WORK IS TO COMMENCE UNTIL THIS INFORMATION HAS BEEN VERIFIED

ARCHITECT TO CONFIRM
• PATIOS, PATHS, KERBS AND SURFACE FINISHES.
• DRAINAGE CONNECTION POINTS
• THRESHOLD DRAIN REQUIREMENTS

NOTES

1. This drawing is to be read in conjunction with all other RGP drawings, and with all relevant Architects and Engineers drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. RGP accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale work to figured dimensions only. All dimensions are in millimetres unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
7. The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
8. The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
9. The contractor must comply with all current legislation relating to health & safety.
10. All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any RGP drawings, the manufacturers instructions must be used.
11. Contractor to confirm all invert levels where connections are proposed prior to commencing any drainage works. Contractor to commence drainage works at the point of discharge.

RESIDUAL HAZARDS

- In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:
1. Uncharted buried services. Contractor to use CAT prior to excavating
 2. Working in live carriageway. Contractor to implement traffic management to ensure safety of the workforce and public.
 3. Working in live sewers. Contractor to ensure operatives are familiar with the dangers of working in live sewers
 4. Excavations close to existing structures. Contractor to prepare method statement to ensure stability of existing structures.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

DRAFT



Transport Planning and Infrastructure Design Consultants
2 West Barn, Norton Lane, Chichester, West Sussex PO20 3AF
Tel: 01243 210418 Fax: 01483 861682 www.rgp.co.uk

Client
Arun District Council

Project
Westloats Lane, Bognor Regis
PO21 5LE

Drawing Title
Site Layout, Levels and Drainage

Scale 1:200	Drawn By TW	Checked By LF	Approved By MA
----------------	----------------	------------------	-------------------

Date 24/07/18	Drawing No. 2018-D1414-100	Rev. -
------------------	-------------------------------	-----------