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NOTES

GENERAL NOTES

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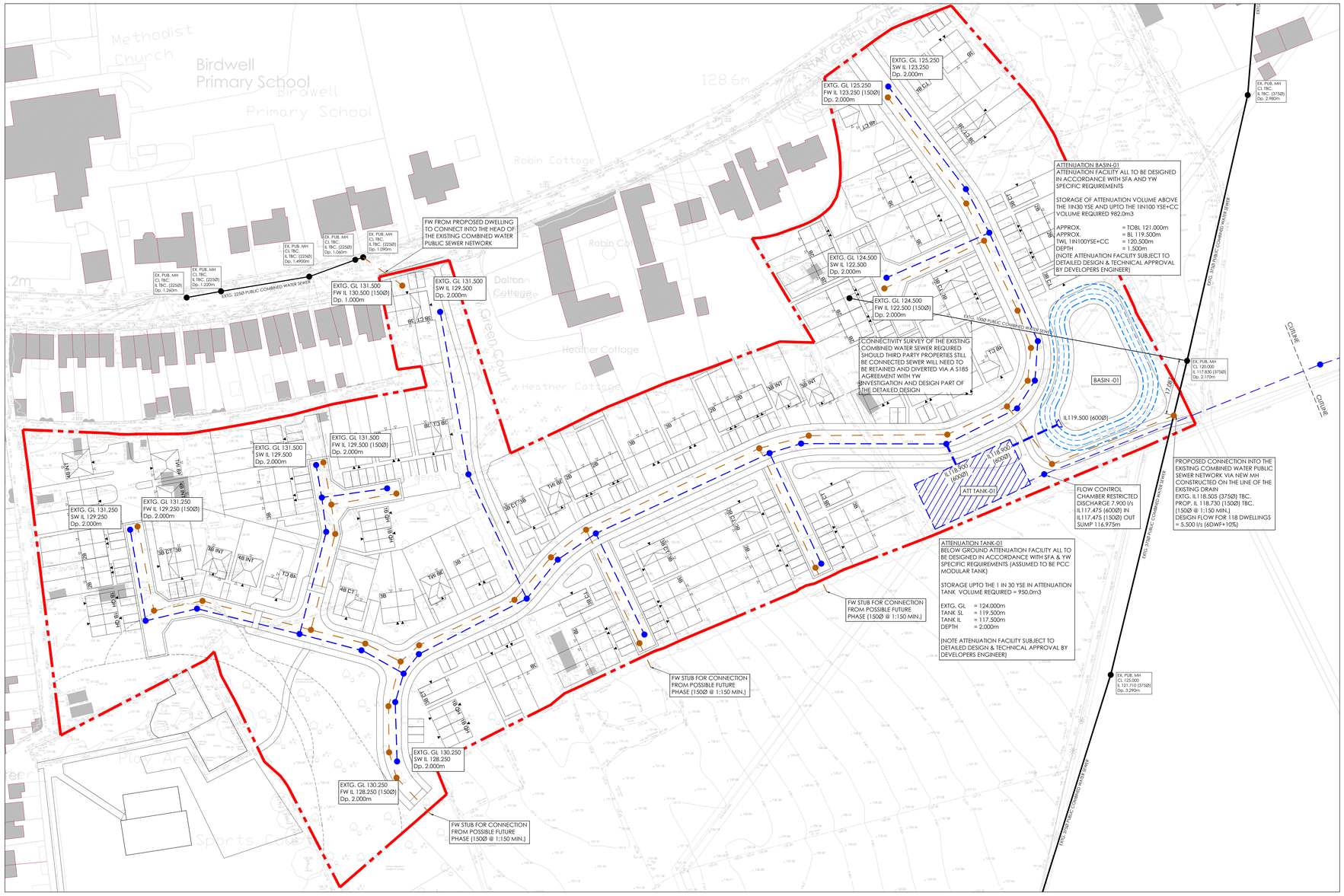


DRAINAGE KEY

- PROPOSED SITE BOUNDARY
- EXISTING FW PUBLIC SEWERS
- EXISTING CW PUBLIC SEWERS
- EXISTING SW PUBLIC SEWERS
- EXISTING WATERCOURSES
- EXISTING WATERCOURSES CULVERTED SECTIONS
- PROPOSED SW SEWERS
- PROPOSED FW SEWERS

LEVELS AND DETAILS OF THE EXISTING SEWER NETWORK ARE TO BE SURVEYED TO CONFIRM COVER AND INVERT LEVELS AND CONDITION OF THE RECEIVING SEWERS

DWELLING NUMBERS TO BE CONFIRMED AS PART OF THE DETAILED PLANNING AND DETAILED DESIGN PROCESS BY THE RESIDENTIAL DEVELOPER

FOUL WATER CALCULATIONS

PARCEL RAREA-A FW CALCULATION

RESIDENTIAL DEVELOPMENTS
BASED ON SFA RATE OF 4000 LITRES/DWELLING/DAY

USE	L/DAY	No.	TOTAL L/DAY
GENERAL HOUSING	4000	118.0	472000.000
DESIGN FLOW=TOTAL/86400s			5.463l/s (6xDWF+10%)
			0.819l/s (1xDWF)

NUMBER OF HOUSES BASED ON 42 RESIDENTIAL UNITS PER HECTARE

FW DESIGN ASSUMPTION AS FOLLOWS

ASSUMED 42 DWELLING/Ha

ALL FOUL WATER INFRASTRUCTURE PIPES ASSUMED TO BE MINIMUM 150Ø AT A MINIMUM GRADIENT OF 1:150 (SUBJECT TO DETAILED DESIGN BY OTHERS)

FW POINTS OF DISCHARGE AND DISCHARGE RATES INTO THE EXISTING FW PUBLIC SEWER SYSTEM ARE TO BE AGREED WITH YW. YW HAVE CONFIRMED VIA A PPE THAT FW FROM THE DEVELOPMENT SHOULD DISCHARGE INTO THE EXISTING 375mm COMBINED WATER SEWER LOCATED WITHIN THE SITE

SURFACE WATER CALCULATIONS

PARCEL AREA-A SURFACE WATER RUN OFF

VOLUME RUN OFF (Cv)	0.750
ROUTING COEFFICIENT (Cr)	1.300
AVERAGE RAINFALL (I) IN mm/hr	50.000
AREA IN HECTARES (A)	2.154
FLOW RATE (Q) = 2.78 x Cv x Cr x I x A	**291.921l/s**

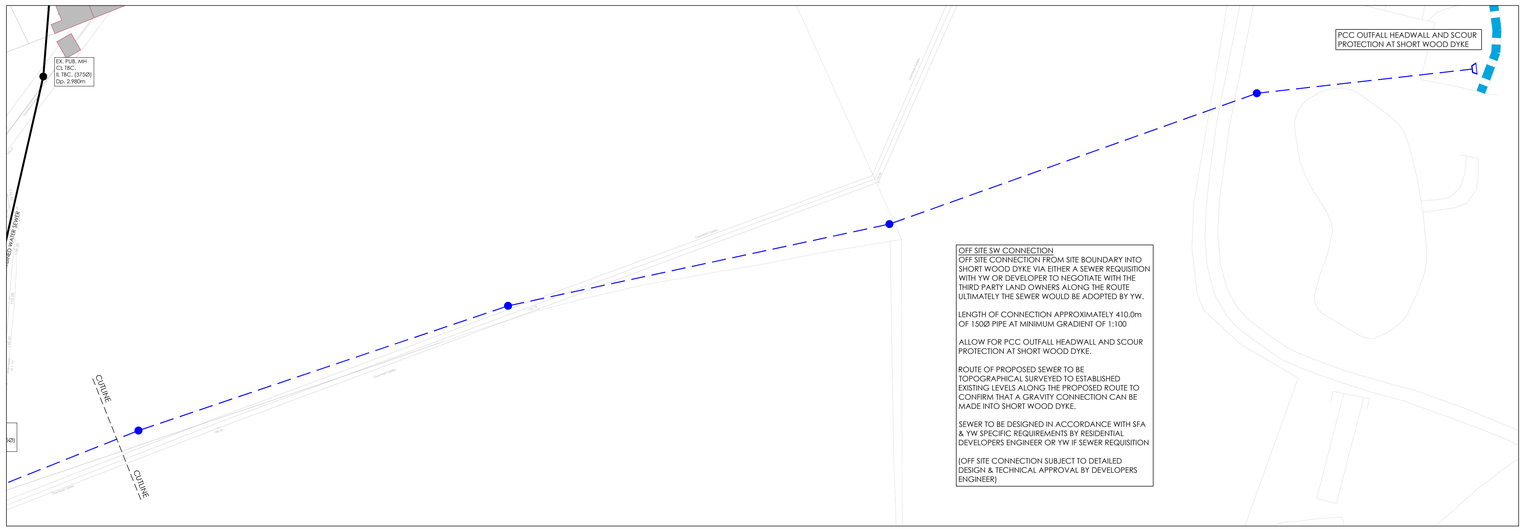
Impermeable area based on 60% of the total plot area refer to table below

POINTS OF DISCHARGE FOR SW RUN OFF INTO THE EXISTING WATER COURSE/LAND DRAINAGE SYSTEM & DISCHARGE RATES ARE TO BE AGREED WITH THE LLFA
DESIGN RATES USED ARE BASED ON CALCULATED GREENFIELD RATES USING RECOGNISED METHODS TO CALCULATE THE GREENFIELD RATES
CALCULATED RATE 7.900 l/s
YW HAVE CONFIRMED THERE IS NO CAPACITY FOR SW INTO THE PUBLIC SEWER NETWORK

ATTENUATION VOLUMES ARE BASED ON THE FOLLOWING ASSUMPTIONS
ASSUMED 60% MAX. IMPERMEABLE AREA OF TOTAL DEVELOPMENT PARCEL AREA
ALLOWANCE FOR CLIMATE CHANGE 40%

PARCEL REF.	TOTAL AREA (Ha)	IMP. AREA (Ha)	UNRESTRICTED DISCHSRGE (l/s)	RESTRICTED DISCHSRGE (l/s)	SW ATTENUATION VOL. 1 IN 30 (m3)	SW ATTENUATION VOL. 1 IN 100 + CC (m3)
AREA-A	3.590	2.154	SEE CALCULATION	7.900	948.0	1932.0
IMPERMEABLE AREA BASED ON 60% OF THE TOTAL PARCEL AREA						
RESTRICTED DISCHARGE BASED CALCULATED GREENFIELD RUN OFF RATE USING ICP-SUDS METHOD IN MICRO DRAINAGE DESIGN SOFTWARE = 7.900l/s						
ALLOWANCE FOR CLIMATE CHANGE 40%						

RESIDENTIAL PARCELS DISCHARGE RATES AND VOLUMES



ALL PIPE/SEWER RUN AND INFRASTRUCTURE ARE SHOWN INDICATIVELY AND SUBJECT TO DETAILED DESIGN BY THE RESIDENTIAL DEVELOPERS ENGINEER

REV	DESCRIPTION	DATE	BY
P01	INITIAL ISSUE	07.05.2020	JDM

Project
HAY GREEN LANE, BIRDWELL

Drawing Title
FW & SW DRAINAGE STRATEGY PLAN

INFORMATION ISSUE

Architect
JRP ARCHITECTS

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JPG Project Ref	Scale at A0	Date	Checked	Drawn
5568	1:2500	APR 2020		JDM

5568 - JPG - SW - 00 - DR - D - 1401 | S2 | P01