

EXISTING FLOW RATE TABLE

LOCATION	IMPERMEABLE AREA	1 IN 1YR PEAK DISCHARGE RATE (Q=2.78 CIA)
AREA 1:- EXISTING HARD STANDING AREA	1124sqm	$2.78 \times 0.8 \times 57.94 \times 1124 / 10000 = 14.48\text{/s}$
AREA 2:- EXISTING IMPERMEABLE CAR PARK	494sqm	$2.78 \times 0.8 \times 57.94 \times 494 / 10000 = 6.36\text{/s}$

TOTAL EXISTING PEAK FLOW FOR 1 IN 1 YEAR 5 MINUTE STORM RETURN PERIOD = 20.84\text{/s}

AREA 3:- EXISTING IMPERMEABLE AREA
75sqm
 $2.78 \times 0.8 \times 57.94 \times 75 / 10000 = 0.97\text{/s}$

AREA 3 CURRENTLY DRAINS TO THE EXISTING SYSTEM VIA GULLIES. IT IS THEREFORE PROPOSED TO DRAIN THE PROPOSED BUILDING WHICH WILL BE LOCATED OVER THIS AREA UNRESTRICTED TO THE EXISTING SYSTEM AS A "LIKE FOR LIKE AREA"

AREA 1:-EXISTING IMPERMEABLE AREA CURRENTLY DRAINING TO POSITIVE NETWORK VIA GULLIES 1124sqm

AREA 2:-EXISTING IMPERMEABLE CAR PARK CURRENTLY DRAINING TO POSITIVE NETWORK VIA GULLY 494sqm

AREA 3:-EXISTING IMPERMEABLE AREA CURRENTLY DRAINING TO POSITIVE NETWORK VIA GULLIES 75sqm

STANDARD NOTES

1. DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND INFORMATION ISSUED IN THE CONTRACT.
3. REFER TO DRAWING NUMBER E03153-003 AND 004 FOR PROPOSED FOUL AND SURFACE WATER DRAINAGE STRATEGY DRAWINGS.

KEY

AREA 1 EXISTING IMPERMEABLE AREA COUNTED TOWARDS PROPOSED FLOW RATE BACK INTO EXISTING DRAINAGE NETWORK

AREA 2 EXISTING IMPERMEABLE AREA COUNTED TOWARDS PROPOSED FLOW RATE BACK INTO EXISTING DRAINAGE NETWORK

AREA 3 EXISTING IMPERMEABLE AREA COUNTED TOWARDS UNRESTRICTED DISCHARGE BACK INTO EXISTING DRAINAGE NETWORK

EXISTING PRIVATE FOUL WATER DRAIN

EXISTING PRIVATE SURFACE WATER DRAIN

EXISTING PRIVATE COMBINED DRAIN

EXISTING SURFACE WATER GULLY

PROPOSED DRAINAGE STRATEGY

IN ORDER TO PROVIDE A DISCHARGE RATE FOR THE PROPOSED WORKS, AREAS OF EXISTING IMPERMEABLE AREA WHICH CURRENTLY DRAIN TO THE PRIVATE SURFACE WATER DRAINAGE NETWORK ON SITE WILL BE RE ROUTED IN TO THE PROPOSED DRAINAGE SYSTEM AND THUS PROVIDE A DISCHARGE RATE BACK INTO THE EXISTING SYSTEM. THE CALCULATIONS WILL USE THE 1 IN 1YR 5 MINUTE STORM TO PROVIDE AN OVERALL PEAK DISCHARGE RATE BACK IN TO THE EXISTING DRAINAGE SYSTEM. THE OVERALL PEAK DISCHARGE RATE WILL BE SPLIT UP TO PROVIDE A DISCHARGE RATE FOR EACH OF THE 4 ATTENUATION TANKS WHICH ARE TO BE DRAINED BACK IN TO THE EXISTING DRAINAGE SYSTEM. THIS DISCHARGE RATE WILL BE USED TO RESTRICT THE FLOWS FOR ALL STORM DURATIONS UP TO AND INCLUDING THE 1 IN 100 YEAR+40% CLIMATE CHANGE STORM EVENT, THUS PROVIDING A BETTERMENT TO THE EXISTING DRAINAGE. REFER TO SECTION 106 COVERING LETTER FOR DETAILS AND CALCULATIONS.

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ORDNANCE SURVEY 100019180

P2	ISSUED FOR PLANNING PURPOSES.	23.01.2018	C.P	J.O	
P1	ISSUED FOR SECTION 106 AGREEMENT PURPOSES.	09.01.2018	C.P	J.O	D.R
REV	AMENDMENTS	DATE	CAD	CHKD	APPD

HCC CAD FILE: K:\Eng\Roads\Schemes\E03153_Moorland School\AutoCAD\Drawings\Issued\Issued for Planning 2018-01-23\E03513-001 Existing Drainage Catchment Areas.dwg

CLIENT

HAMPSHIRE COUNTY COUNCIL
ECONOMY, TRANSPORT AND ENVIRONMENT DEPARTMENT
STRATEGIC TRANSPORT

CONSULTANT



Hampshire
County Council

Engineering
CONSULTANCY

STUART JARVIS BSc DipTP FCIHT MRTPI: DIRECTOR OF ECONOMY, TRANSPORT & ENVIRONMENT

DESIGNER
C.PCAD
C.PCHECKED
J.OAPPROVED
D.R

D.R

SCHEME

MOORLANDS PRIMARY SCHOOL
READING BOROUGH COUNCIL

JOB No. E03153

SCALE @ A1

1:350

DATE

02.01.2018

SHEET NUMBER

1 OF 1

DRAWING TITLE

EXISTING DRAINAGE CATCHMENT
AREAS

HCC CAD PLOT: 24/1/2018 15:54:13

DRAWING NUMBER

EC/E03153-001

REV

P2