



- KEY**
- SITE BOUNDARY
 - EXISTING FOUL WATER SEWER
 - SURFACE WATER SEWER
 - FOUL WATER DRAIN
 - EXISTING SEWER EASEMENT
 - BIORETENTION AREA
 - SWALE WITH UNDERDRAIN
 - ROOT PROTECTION
 - MODELLED 1% AEP + 35% CLIMATE CHANGE FLOOD EXTENT
 - APPROXIMATE LEVEL DIFFERENCE FROM EXISTING TO PROPOSED (m)

- DRAINAGE STRATEGY :**
- SURFACE WATER DRAINAGE STRATEGY BASED ON NO INFILTRATION POSSIBLE ACROSS THE SITE DUE TO HIGH GROUNDWATER LEVELS AND INSUFFICIENT FREEBOARD BETWEEN THE BASIN AND GROUNDWATER LEVELS.
 - DISCHARGE TO RIVER LODDON TO GREENFIELD RUNOFF RATE OF 2/3/70, BASED ON A PROPOSED IMPERMEABLE AREA OF 3.528ha. PEAK FLOW RATE FROM SITE WILL BE RESTRICTED TO 7.0/s.
 - MAIN ATTENUATION STORAGE PROVIDED WITHIN AN ATTENUATION BASIN. ROADSIDE SLOPS FEATURES ACROSS THE SITE INCLUDE SWALES AND BIORETENTION.
 - FOUL DISCHARGE BASED ON THREE SEPARATE OUTFALLS INTO THE EXISTING THAMES WATER FOUL WATER SEWER NETWORK WITHIN THE SITE.

SURFACE WATER DETAILS
IMPERMEABLE AREA = 3.528ha
GREENFIELD RATE = 2/3/70
DISCHARGE RATE = 7.0/s

E	MINOR LEVEL UPDATES	JOK	07.03.20
D	MINOR LAYOUT CHANGES, ADDITIONAL LEVELS ADDED	JOK	06.03.20
C	ATTENUATION CAPACITY RECALCULATED	JOK	24.01.20
B	MINOR DRAINAGE UPDATES	JOK	11.11.24
A	OFFLINE STORAGE ADDED	JOK	06.11.24
Rev	Description	Rev	Date

Preliminary Issue	Submitted for S104
Planning Issue	Issued for Tender
Submitted for S38	Issued for Construction
Submitted for S278	As Built

STUART MICHAEL ASSOCIATES
CONSULTING ENGINEERS
Stuart Michael Associates Ltd
Coombe House, Coombe Square, Thatcham, Berkshire RG19 4LP
T: 01635 867 711 E: mail@stuartmichael.co.uk
F: 01635 861 715 W: www.stuartmichael.co.uk

BRIDGE FARM
TWYFORD

OVERALL
DRAINAGE STRATEGY

DATE: OCT 24 DRAWN BY: JOK CHECKED BY: JOK
SCALE: 7236.401 E 1:500
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