



**DISCHARGE RATE:**

- DRAINAGE STRATEGY IS BASED ON THE FLOOD RISK ASSESSMENT UNDERTAKEN BY MLM, REF: JH/612505/R01/14, DATED: AUG. 2006.
- ACCORDING TO THE FRA THE DISCHARGE FOR THE EXISTING SITE IS VIA THREE (3) EXISTING PIPES (1No. ø150mm & 2No. ø300mm) AND THE DISCHARGE RATES IS 86 l/s, 444 l/s & 861 l/s RESPECTIVELY THIS PRODUCING A TOTAL DISCHARGE OF 1,391 l/s.
- HOWEVER, THE FULL-BORE FLOW RATE FOR A ø300mm PIPE @ 1.60 IS 124 1/5 & ø150mm PIPE @ 1.60 IS 20 1/5. THIS EQUAL A TOTAL DISCHARGE OF 268 1/5 (124\*2 + 20) & WE PROPOSED TO REDUCE THIS RATE BY 50% TO 134 1/5.
- WE PROPOSED TO DISCHARGE THE DEVELOPMENT VIA TWO (2) ø300mm PIPES TO THE EXISTING DITCH WEST OF THE PROPOSED DEVELOPMENT AND MAKE THE THIRD ø150mm OUTFALL REDUNDANT. THE DISCHARGE FOR THE PROPOSED SITE WILL BE DIVIDED BETWEEN THE TWO PROPOSED DISCHARGE POINTS AS FOLLOWS:
  - DISCHARGE POINT 1 (ø300mm) = 67 l/s
  - DISCHARGE POINT 2 (ø300mm) = 67 l/s
 THIS, RESULTING IN AN OVERALL DISCHARGE REDUCTION OF 90% FROM EXISTING DEVELOPMENT RUNOFF.

**CELLULAR STORAGE**

SUPPLIER: SDS GEO-LIGHT ABLE TO WITHSTAND HGV TRAFFIC (OR SIMILAR APPROVED)

SIZE: STORAGE VOLUME GROSS, 240m<sup>3</sup>/NET, 228m<sup>3</sup>

TOP LEVEL: 20.70m

BASE LEVEL: 19.20m

(UNITS WRAPPED IN WATERPROOF MEMBRANE MIN 750µm THICK, LAPPED AND WELDED)

**GENERAL NOTES:**

- ALSO READ ACCOMPANYING NBS SPECIFICATIONS:
  - D20 EXCAVATING AND FILLING
  - D10 KERBS & EDGINGS
  - D20 GRANULAR SUB BASES
  - D21 IN SITU CONCRETE PAVING
  - D22 ASPHALT ROADS
  - D24 INTERLOCKING BLOCK PAVING
  - R10 RAINWATER DRAINAGE SYSTEM
  - R11 ABOVE GROUND FOUL DRAINAGE
  - R12 BELOW GROUND DRAINAGE SYSTEM
- DRAWING BASED ON:
  - TOPOGRAPHICAL SURVEY: MK SURVEYS, DWG NO: 24015, DATED: 06/2017
  - SITE PLAN: WOOD HARBORWAY ARCHITECTS, DWG NO: 17870-005, DATED: 06/2017
- GROUND CONDITIONS:
  - GROUND INVESTIGATION REPORT: MLM ENVIRONMENTAL SITE INV. REF: 721576/R1/F, MARCH 2007
  - CBR: 2% AS PER SI REPORT
  - GWL APPROXIMATELY AT 21.9m AOD
- DRAINAGE APPROVAL: TO BE SUBMITTED
  - ANGLIAN WATER: S106 FOR INDIRECT FOUL SW DISCHARGE INTO PRIVATE 3RD PARTY DRAINAGE DITCH SUBJECT TO APPROVAL
- ANILLARIES SPECIFICATION:
  - LINEAR DRAINAGE CHANNELS: D400 GATIC CASTSLOT OR ACO GMAX TO YARDS AND C250 ACO DRAINAGE CHANNELS TO CAR PARK.
  - PETROL INTERCEPTOR: CONDEOR OR SIMILAR APPROVED
  - HYDROBREAKS: HYDRO INT. OR SIMILAR APPROVED
  - ATTENUATION TANK TANK: SDS GEO LIGHT OR SIMILAR APPROVED
- GENERALLY:
  - LEVELS IN METRES UNLESS NOTED OTHERWISE.
  - CONTRACTOR RESPONSIBLE FOR CHECKING ACCURACY OF DRAWING INFORMATION TO ON-SITE CONDITIONS. I.E. WHEN TYING INTO EXISTING ROAD ALIGNMENTS OR SEWERS.
  - CONTRACTOR RESPONSIBLE FOR ENSURING NO EXISTING UNDERGROUND SERVICES WILL CLASH WITH PROPOSED WORKS. E.G. BY TRACING AND IDENTIFYING AND LACING WITH OWNER OF APPARATUS.
  - CONTRACTOR MUST INSTALL FINAL DRAINAGE CONNECTION FOLLOWING RECEIPT OF CONSENT PRIOR TO INSTALLING ANY UPSTREAM DRAINAGE.

**LEGEND**

- EXISTING PRIVATE SURFACE WATER RUN
- NEW PRIVATE SURFACE WATER RUN
- EXISTING PRIVATE FOUL WATER RUN
- NEW PRIVATE FOUL WATER RUN
- HYDRO-BREAK
- CATCH-PIT
- GULLY
- RAIN WATER PIPE
- SITE BOUNDARY
- LINEAR DRAINAGE CHANNEL
- PROPOSED PERMEABLE CELLULAR STORAGE
- PROPOSED LEVELS
- EXISTING LEVELS

**PUMP STATION**

- GRP pump chamber dimensions TBC
- CL: 21.84
- Inlet#2: ø150 @ 18.25
- ø150 @ 18.25
- ø175 TBC
- ø196 TBC
- Bottom
- Outlet ø100 TBC
- Cable Duct ø100 TBC
- Rising Main 4.00m long laid flat @ 19.96m TBC
- Total Peak Flow Rate 3 l/s
- Total Foul Storage Required 20m<sup>3</sup> (24hours) / 5m<sup>3</sup> (6 hours) to be stored below inlet levels

R1 PE 11.12.18 RECORD COPY ISSUE

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Client: SALMON HARVESTER PROPERTIES

Site: CAMBRIDGE SOUTH SAWSTON

Drawn by: DRAINAGE LAYOUT & LEVELS  
DRAWING NETWORK 1

Information:  Preliminary  Approved  Tender  Construction  Record Copy

Date: JUN '17 Drawn: MM Scale: 1:200 @ A0 Checked: IL

Drawing No: **17-049 / 300** Rev: R1