SHOULD SURFACE WATER SYSTEM FAIL THROUGH BLOCKAGE/ EXCEEDENCE STORM, SURFACE WATER RUN OFF TO OCCUPY NORTHERN END OF SITE, WHICH IS THE LOWEST POINT. AREA TO BE LANDSCAPED/ LOOSE GRAVEL FINISH WITH NO OCCUPANCY, AND SURROUNDED VIA TOP SOIL/ MOT BUND ON SITE BOUNDARY. THIS AREA WOULD PROVIDE THE SUFFICIENT VOLUME IN THIS RARE/ UNEXPECTED OCCURANCE, AND EXCESS WATER WOULD DRAIN NATURALLY VIA INFILTRATION INTO THE LANDSCAPED GROUND.

THIS WOULD BE A VERY RARE OCCURANCE WHERE THE SUITABLY DESIGNED SYSTEM FAILS ON MULTIPLE FRONTS, IN AN EXCEEDENCE STORM AND IS SEEN AS DAMAGE LIMITATION ENSURING THERE IS A LOW POINT OF THE SITE, WHICH WOULD NOT AFFECT THE OCCUPIED UNITS.

FLOW CONTROL AT 5l/s DISCHARGE, WITH 1.5m DESIGN HEAD.

HYDRO INTERNATIONAL HYDRO BRAKE SHE-0098-5000-1500-5000 OR SIMILAR.

TO BE DESIGNED BY MANUFACTURER WITH ABOVE DISCHARGE SPECIFICATIONS AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFCATIONS.

Path

Gore Brook

Existing Warehouse

FFL= 50.800

Existing Warehouse

Proposed Warehouse
FFL= 50.800

Proposed Warehouse
FFL= 50.800

Tank (42cum)
12m x 6m x0.60m deep
CL: 50.500min
Top of Tank: 49.450
IL: 48.850

New headwall to be constructed to discharge water at controlled rate into Gore Brook. Prior permission to be sought by LLFA/ EA to allow surface water discharge by executing point 1 of the SuDS hierarchy.
Headwall to be angled to a 45° angle in the direction of the flow.

HW1
150 dia
CL:50.50
IL:48.75

Hydro-Brake flow control with 1 chamber SS
Max Flow 5l/s
Design Head 1.5m
SHE-0098-5000-1500-5000

Topsoil bund approx 1.5-2m high for security.

Existing 8m wide easement

8.000m

Low point of site kept clear of buildings. Identified as point of flood should pump fail.

Overflow tank to take water for storms above 100 years, up to and including 1000 years +40% climate change. Approx. capacity required: 42m3.

S1 1500 dia CL:50.65 IL:49.25
S2 1500 dia CL:50.65 IL:49.15
S3 1500 dia CL:50.60 IL:49.05
S4 1500 dia CL:50.60 IL:48.93
S5 1500 dia CL:50.60 IL:48.83

RE CL:50.60 IL:49.25
RE CL:50.65 IL:50.00

150ø 1:116
300ø 1:180
300ø 1:150
375ø

28.000m
15.000m
5.000m

EXISTING OUTFALL

Existing 6m wide easement

Existing public SW sewer

5502

WOODHILL CLOSE

Works

Gore Brook

Playground

AS BUILT ISSUE

DO NOT SCALE OFF THIS DRAWING
IF IN DOUBT - ASK

NOTES

1. ALL ADOPTABLE DRAINAGE WORKS HAVE NEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADOPTION" AND UNITED UTILITIES SUPPLEMENT GUIDELINES AND STANDARD DETAILS.
2. ALL CLAY PIPEWORK SHALL BE EXTRA STRENGTH CLAYWARE TO BS EN 95:1991 PART 1
3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS AND IN ACCORDANCE WITH BS EN 1916:2002. ALSO, ALL MANHOLES AND CHAMBERS SHALL BE TO BS EN1917:2002.
4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY BS 4660:2000 AND BS EN 1401-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS4-35-01 UPTO AND INCLUDING 300mm (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY). MAXIMUM PIPE LENGTH TO BE 3.0m.
5. ALL LEVELS REFER TO TOPOGRAPHICAL SURVEY DATUM.
6. THIS DRAWING IS TO READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE MINIMUM 150mm DIAMETER & UNLESS OTHERWISE STATED LAID TO THE INVERT SHOWN.
8. ALL INSPECTION CHAMBERS TO BE 450mm DIAMETER POLYPROPYLENE WITH A MAXIMUM DEPTH OF 1200mm FOR STANDARD UNIT AND A MAXIMUM DEPTH OF 3000mm WHEN A 350mm REDUCING RING IS USED.
9. ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:60 UNLESS NOTED OTHERWISE.
10. RODDING EYES TO BE AT THE START OF EACH DRAINAGE RUN.
11. ALLOW FOR 5.0m OF ACO DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY.
12. SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY.
13. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT INDICATED ON THE DRAWINGS ARE CORRECT BEFORE THE WORK COMMENSES.
15. ALL CONNECTIONS TO ADOPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED.
16. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.20m COVER IN ROADS OR 0.9m COVER IN FIELDS SHALL HAVE CLASS S GRANULAR BED AND SURROUND.
17. ANY SEWER FOR ADOPTION WITH LESS THAN 1.2m COVER IN ROADS OR 0.9m COVER IN FIELDS SHALL HAVE A MINIMUMOF 150mm ST4 CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT.
18. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL ONSITE EXISTING GROUND LEVELS PRIOR TO COMMENSING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMEDIATERLY.

LEGEND

- SITE BOUNDARY
- NEW SW SEWER
- EXISTING SW SEWER
- FFL =50.80m — FINISHED FLOOR LEVEL

REV.	DATE	DESCRIPTION
H	15/10/25	AS BUILT DRAWING ISSUE.
G	28/06/22	REVISED TO SHOW HEADWALL & PIPE AT 45° ANGLE TO WATERCOURSE.
F	08/06/22	REVISED TO SHOW HEADWALL AT 45° ANGLE TO WATERCOURSE.
E	16/12/21	REVISED IN ACCORDANCE WITH MICRO DRAINAGE CALCULATIONS.
D	06/04/21	SCHEME REVISED TO DISCHARGE IN TO GORE BROOK DIRECTLY.
C	02/7/20	OVERLAND FLOW ROUTE IDENTIFIED
B	13/10/19	DRAINAGE PLAN REVISED.

CLIENT

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TITLE

GOREBROOK WORKS LONGSIGHT

DRAINAGE PLAN

Drawn	A.MULLIGAN	Checked	D.MIDDLETON
Date	OCTOBER 2019	Date	OCTOBER 2019

Scale 1:200 @ A1

Drawing No. 19.B.12454/20 H