KEY:

- EXISTING FOUL VACUUM SEWER – AWS
- PROPOSED FOUL WATER VACUUM SEWER – S104 ADOPTABLE
- PROPOSED FOUL WATER CHAMBER – S104 ADOPTABLE
- PROPOSED FOUL DRAIN – PRIVATE
- PROPOSED FOUL INSPECTION CHAMBER – PRIVATE
- PROPOSED ROAD GULLY & LATERAL – S38 ADOPTABLE
- PROPOSED SURFACE WATER DRAIN – S38 ADOPTABLE
- PROPOSED SURFACE WATER FILTER DRAIN – S38 ADOPTABLE
- PROPOSED SURFACE WATER CHAMBER – S38 ADOPTABLE
- HATCHED AREA DENOTES PROPOSED LCC HIGHWAYS EASEMENT
- PROPOSED SURFACE WATER DRAIN – PRIVATE
- PROPOSED SURFACE WATER INSPECTION CHAMBER – PRIVATE
- EXISTING SITE LEVEL
- PROPOSED SITE LEVEL
- PROPOSED SURFACE FALL
- PROPOSED TACTILE PAVING
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- PROPOSED TREE (REFER TO LANDSCAPE ARCHITECTS DETAILS) ORANGE CIRCLE DENOTES TYPE A TREE ROOT BARRIER
- AREA A – PROPOSED TARMAC ROAD – S38 ADOPTABLE
- AREA B – PROPOSED TARMAC FOOTPATH / VEHICLE CROSSOVER – S38 ADOPTABLE
- AREA C – PERMEABLE BLOCK PAVED DRIVE CONSTRUCTION, TYPE A SYSTEM TO INFILTRATE – PRIVATE

ALL PRIVATE CONNECTIONS TO ADOPTABLE DRAINAGE TO BE A MINIMUM OF 100mm DIAMETER, CLAY AND LAID SOFFIT–SOFFIT. PLEASE REFER TO PLOT DRAINAGE DRAWINGS TO CONFIRM DIAMETERS AND GRADIENTS.

NORTH LEVEL DISTRICT IDB MAINTAINED DRAIN
DOWNSTREAM CULVERT IL: –0.370
WATER LEVELS:
1:10 YEAR = +0.26m AOD
1:20 YEAR = +0.65m AOD
1:50 YEAR = +1.21m AOD
1:100+CC YEAR = +1.50m AOD

PROPOSED ATTENUATION BASIN:–
'SWALE' IN BASIN BED TO STORE APPROXIMATELY 1:10 YEAR STORM EVENT
BANK TOP LEVEL: 1.775 (558m²)
BED LEVEL: 1.175 (406m²)
SWALE BED LEVEL: 0.575
TOTAL BASIN VOLUME: 335m³
FSR MAX. WATER LEVEL: 1.401 138m³ (1:100+CC)
FEH MAX. WATER LEVEL: 1.600 235m³ (1:100+CC)

PROPOSED FLOW CONTROL CHAMBER: TO BE FITTED WITH HYDROBRAKE TO RESTRICT DISCHARGE TO 2.50L/S

0 2.5 5 7.5 10 15 20 25m
1:250

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REV.	DESCRIPTION	DRN.	APP.	DATE
P1	PLOTS 1 & 2 FFL'S UPDATED.	SW	APW	18.10.22
–	PRELIMINARY – FOR COMMENT.	MP	APW	14.06.22

SHIELDS WILSON
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STRUCTURAL AND CIVIL ENGINEERING

STATUS: FOR INFORMATION

CLIENT: SCENIC HOMES

PROJECT: PROPOSED RESIDENTIAL DEVELOPMENT LAND OFF CHAPLE GATE, SUTTON ST. JAMES, SPALDING, LINCS. PE12 OEJ

TITLE: SECTION 104
PROPOSED DRAINAGE ARRANGEMENT
(SHEET 2 OF 2)

DATE	MAY '22	SCALE @A1 1:250	DRAWING NO. SW 21–117–122	REV. P1
DRAWN	MP			