EXISTING ACCESS LANE

EXISTING PARKING

BOUNDARY AS SHOWN ON MAGIC WEBSITE

17.0m

EXISTING PLANTING TO REMAIN

EXISTING TREES TO REMAIN

KERB AND NEW FENCE LINE

TREES TO BE REMOVED
NATIVE RE-PLANTING SCHEME
TO BE AGREED

AREA BANKED BACK (SEE CROSS SECTIONS)

GABIONS - WIRE CAGES TO BE FILLED WITH LOCAL STONE - SEE PLANNING REPORT FOR IMAGE

GRASS VERGE

Security Fence

GABION LINE

PARKING FOR 65 STANDARD CARS
OR 43 CARS AND 16 CHASSIS / TRAILERS

NEW PARKING TO BE GRASSCRETE BAYS WITH CONCRETE SURFACED ACCESS

BANK TO BE PLANTED WITH NATIVE TREE SPECIES

ATTENUATION TANK
ALDERBURGH HD PLUVIAL CUBES
total 57.75cum
1056sqm (10m x 10.5m) x 0.55m
CL: 196.50
TOP OF TANK: 195.89
TANK IL: 195.34

1200Φ ATTENUATION & CONTROL MH
CL: 196.50
overflow IL: 195.89
hydrobrake IL: 195.33
sump IL: 194.88
hydrobrake optimum model SHE-0112-5000-0560-5000
ngt 5l/s @max 0.56m head

klargester bypass separator NSB003

THESE BAYS COULD BE LONGER AND WIDER FOR TRAILERS ETC

NEW DRAINAGE CHANNEL CONNECTED INTO EXISTING CAR PARK GULLEY VIA A PETROL INTERCEPTOR (DESIGNED BY APPROVED SUPPLIER AND INSTALLED IN ACCORDANCE SPECIFICATION)

MH 196.45
ex surface water manhole
CL: 196.45
IL: 194.95

Drainage Channel

Drainage Channel Continued Along new car parking area

LEVELS UNALTERED

N

ATTENUATION & CONTROL MANHOLE GENERAL ARRANGEMENT DETAIL 1:20

GENERAL NOTES

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0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS.
0.2 All dims in mm unless o/w stated.
0.3 All levels in m aOD unless o/w stated.
0.4 Refer to architects details for SBM.
0.5 Contractor to confirm SOP/SOL's prior to ordering material/ construction.
0.6 Do not scale, the contractor must verify all dims prior to commencing shop drawings or work on site.
0.7 All work to be carried out in accordance with CDM 2015.
1.0 HIGHWAYS
1.1 N/A.
2.0 DRAINAGE.
2.1 To be read in conjunction with T J Booth Associates drainage calculations ref: calc-tjba-TRGP-stocksbridge-car park-attenuation calc 100yr+40%-rev0.
2.2Manhole cover levels indicative only, to be adjusted to suit final finish site levels.
2.3 Sewers/manholes to be constructed in accordance with the water authorities sewers for adoption (edition as applicable), B. Regs. Approved Doc. H, and BS EN 752-4.
2.4 Class S granular bed and surround to all new sewers.
2.5 Any sewers or drains with less than 1.2m of cover under adoptable highways (either during or after construction); Or with less than 900mm of cover under private access/driveways; to be protected with min 150mm thick. conc surround unless otherwise specified.
2.6 All conc including pipes and manholes to be sulphate resisting unless otherwise agreed in writing by eng.
3.0 FOUL WATER DRAINAGE
3.1 N/A.
4.0 SURFACE WATER DRAINAGE
4.1 SW drainage to attenuate up to 100yr + 40%.
4.2 Attenuation chamber to comprise Alderburgh Heavy Duty Pluvial Cube modular attenuation crates to be constructed in line with Alderburgh Ltd construction details & sequence of works. Cover not less than 450mm. No construction or any other traffic allowed over attenuation area until cover achieved. Crates to be provided with air vents to manufacturers details.
4.3 Control manhole to comprise a Hydrobrake Optimum flow control unit (Unit No: SHE-0112-5000-0560-5000) to limit Site SW flow to ngt 4l/s.
4.4 Hydrobrake Optimum must have pivoting bypass door and steel rope control fitted.
4.5 Bypass separator (Klargester NSB003 or similar) to be included as site area is over 800sqm or 50No. car parking spaces.
5.0 MANHOLES
5.1 Manhole diameters to be in accordance with SFA clause 2.9.3, and according to largest manhole pipe diameter:

Pipe dia	MH dia
<375	1200;
375-700	1500;
750-900	1800

5.2 Rocker pipes (clause 5.6.6.2) to be the following lengths:
150-600Φ:0.6m;
>600-700Φ:1.0m;
>750Φ:1.25m.
5.3 Inspection chambers/manholes to have min 150granular surround in soft landscaping areas and not less than 150 conc surround to driveways/car parks.
5.4 Manhole covers and frames shall comply with the relevant provisions of bs. en 124 and shall be of non-rocking design which does not rely on the use of cushion inserts.
5.5 Cover sizes and access in accord with SFA Table 2.3 & to be 600x600 in United Utilities & Yorkshire Water areas.
5.6 Cover strength (clause 5.7.1.1) comprising minimum strength for location as follows:

Roads/Highways	D400	Vehicle Impact;
Car Parks	C250	Light Vehicle loading:
Footway/Driveway	B125	Occasional vehicle loading;
Gardens	A15	Pedestrian & cyclist ONLY.

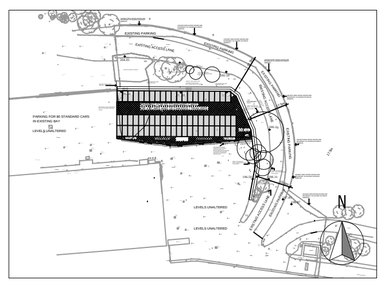
5.7 All manhole covers shall be the non-venting type (unless indicated otherwise) and shall have closed keyways.
5.8 Manhole frames (clause 5.6.7) to be set to level, bedded and haunched externally over the base and sides of the frame in mortar, in accordance with the manufacturers instructions. The frame shall be seated on not less than 2 courses of class B engineering brick, on precast concrete masonry units or on precast concrete cover frame seating rings to regulate the distance between the top of the cover and the top rung to no greater than 675mm. A mortar fillet shall be provided where the corners to an opening in a slab are chamfered and the brickwork is not flush with the edges of the opening.

SURFACE WATER DRAINAGE HIERARCHY

INFILTRATION:
Trial hole investigations revealed impermeable subsoil across the site unsuitable for infiltration. Standing groundwater was noted within approximately 500mm of the proposed car park level.
WATERCOURSE:
No watercourses in close proximity to the car park.
SEWERS:
Surface water discharge to site surface water drains via existing manhole.

SURFACE WATER DRAINAGE MAINTENANCE PLAN

Maintenance to be undertaken by owner.
CONSTRUCTION PHASE: All surface water gullies, drainage pipes, attenuation tank, flow control & separator to be isolated from flows within the construction phase of the development. Drainage infrastructure should only be brought in to use after the drainage system has been flushed/cleaned and inspected.
HABITATION PHASE: Pretreatment sump in control manhole to be inspecvted at 6monthly intervals initially.
Bypass separator must be maintained by a suitably qualified person & be inspected between 3 and 6 months following installation, and at 6 onthly intervals therafter.



LOCATION PLAN 1:2000

PLANNING

T J BOOTH ASSOCIATES
CONSULTING CIVIL & GEOTECHNICAL ENGINEERS

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Tel:01706 868288

AMENDMENTS/ ISSUES			
0	original for LPA Approval	apr 2021	ds
REVISION	REASON/ CHANGE	DATE	BY

TREKGROUP / STOCKSBRIDGE

REAR CAR PARK
PROPOSED DRAINAGE PLAN & DETAILS

FILE NAME: dwg-tjba-TRGP-stocksbridge-car park-190421

SCALE: 1 : 200 & as indicated @ A2