



The above residual risks are for non-standard hazards. It is assumed that a competent contractor familiar with the construction of this type of work will be appointed who will be aware of the standard hazards.



Outlet IL: 120.55 (TBC)

Outfall to be of ACO SuDS
Swale Inlet or similar
approved.

Refer to drawing A9307-151
for Outfall Detail.

- #### Drainage Notes
1. All private drainage works shall be constructed in accordance with Building Regulations Approved Document H (latest edition) and BS EN 752.
 2. Prior to commencement of the works the contractor shall liaise with all relevant authorities to obtain their requirements, work method approval and where appropriate the intended choice of materials.
 3. Refer to topographical survey for details of existing site conditions and bench marks.
 4. Prior to commencement of the works the contractor shall liaise with all relevant authorities to locate, protect and where necessary divert all existing services affected by the works.
 5. The contractor shall ensure the stability of all excavations is maintained at all times and all excavations shall be kept free of standing water.
 6. All works in, or adjacent to, the public highway shall be in accordance with the requirements of the Highway Authority. The contractor shall obtain all necessary licenses required to carry out the works within the public highway.
 7. All works to new or existing public sewers shall be to the approval of the local water authority and in accordance with 'Sewerage Sector Guidance' - Latest Edition.
 8. Prior to commencement of the works all drainage outlet points, whether existing sewer, drain or watercourse, shall be verified on site by the contractor. If the outlet point is found to be higher or significantly lower than shown on the drawings then the design engineer shall be notified immediately (significant redesign of drainage and levels may be necessary). Prior to commencement of construction on-site the contractor shall install all off-site drainage connections, or satisfy himself that there are no obstructions or other reasons why the drain connections can not be made.
 9. All cover levels shown on this drawing are approximate, exact levels of new covers and frames are to be determined on site to match level and profile of finished surface.
 10. The construction of all existing chambers, gullies and their covers, gratings and frames to be improved, repaired or replaced as necessary to suit their location within the finished development.
 11. All covers, gratings and frames to chambers, gullies, channels etc, shall be of the correct load class to suit their location.

Load Class A15	Pedestrian areas (not accessible by vehicles)
Load Class B125	Private drives
Load Class C250	Basements / parking bays / lightly trafficked roads
Load Class D400	Main roads
 12. All existing chambers, gully channels, pipes and other drainage apparatus shall be protected from damage during the works. The contractor shall take all necessary measures to ensure that no material enters the drains (other than that which they are designed to carry).
 13. Refer to site investigation report for existing ground conditions and any special requirements for buried concrete (special requirements for buried concrete shall include all pre-cast and in-situ concrete and mortars). Where appropriate refer to contamination reports for details of chemicals affecting choice of materials and other additional requirements.
 14. All pre-cast and in-situ concrete and mortars used in the construction of foul drains and sewers shall be made from sulphate resisting cement.
 15. Unless noted otherwise all pipework shall be constructed from 'super strength' vitrified clay to BS 65, BS EN 295 or UPVC to BS EN 1401 bedded and backfilled as per the manufacturer's recommendations and the above listed publications.
 16. The contractor's attention is drawn to Diagrams 7 and 8 of 'The Building Regulations Approved Document H' showing details of drains laid below and near to buildings. Where ground beams are used, their level shall be set to avoid clashing with drain connections.
 17. Exact location of gullies to be determined on site to suit low points, the contractor shall ensure that all finished surfaces are laid to falls that are sufficient for all surface water to drain without surface ponding.
 18. All drainage channels to be by ACO or similar and to be of a type, size and capacity suitable for their location.
 19. Private access fittings, inspection chambers and manholes shall be constructed to the dimensions shown in Tables 11 and 12 of 'The Building Regulations Approved Document H' and from the materials listed in Table 14. Access points, inspection chambers and manholes shall be constructed from products designated/rated for the location in which they are to be used. They shall be installed in accordance with the manufacturer's/supplier's recommendations.
 20. Prior to commencement of any works the existing drainage must be traced to ensure that no 'live' connections remain, any such connections must be reported to the contract administrator, prior to diversion into the new drains.
 21. Existing pipes to be abandoned shall be broken out or filled with PFA grout. Manholes shall be broken out and filled with compacted granular material, complying with structural engineer's requirements when within the vicinity of a proposed or existing structure
 22. Pipes at manholes to be soffit to soffit unless noted otherwise.
 23. Pipes passing through foundations and structures shall be sleeved and have flexible pipe joints located on both sides in accordance with the building regulations and structural engineer requirements.

Engineering Layout Key	
xx xxx	Finished Level
<u>1 xx</u>	Gradient
	100mm ACC Multi-Drain (Private)
	S.W. Perforated Pipe in Trench
	Surface Pipe 4500 PPIC (Up to 1500 pipe)
	Flood exceedance route
	Existing Manhole (All existing surface water drainage runs to have a CCTV survey to confirm condition & drainage layout)
	Existing sewer to be abandoned
	Retaining Wall (Text Indicates Retained Height)
	Surfacing Fencing (refer to Allen Scott dwg no. 740-362 & 740-363 for details)
	Edging Fencing (refer to Allen Scott dwg no. 740-363 for details)
	Proposed Gates (refer to Allen Scott dwg no. 740-359 to 740-360 details)
	Proposed Fencing (refer to Allen Scott dwg no. 740-359 to 740-360 details)
	Proposed Cycle Stands (refer to Allen Scott dwg no. 740-351 for details)
	Proposed Removable Bollards (refer to Allen Scott dwg no. 740-351 for details)
	Proposed Bins (refer to Allen Scott dwg no. 740-351 for details)
	Proposed Entrance sign (refer to Allen Scott dwg no. 740-350 for details)
	Play Equipment (refer to Allen Scott dwg no. 739-367 to 739-372, 740-364 to 740-367 for details)
	Bench Equipment (refer to Allen Scott dwg no. 740-354 for details)

PRELIMINARY

P06	Levels key added	24.05.24	SV	AK
P05	Amended as per Architect's comments	08.05.24	SV	AK
P04	Additional ACO drains included	18.04.24	SV	AK
P03	Chambers added	27.03.24	SV	AK
P02	Drainage Revised	29.11.23	SF	SM
P01	Preliminary Issue	13.11.23	SF	SM

Revision: _____ Amendments: _____ Date: _____ Rev'd: _____ Chkd: _____
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Project Title:

MOUNT NODDY PARK

ENGINEERING LAYOUT

Drawing Number: 1:500 @A1 Scale

A9307-1505 Revision
P06