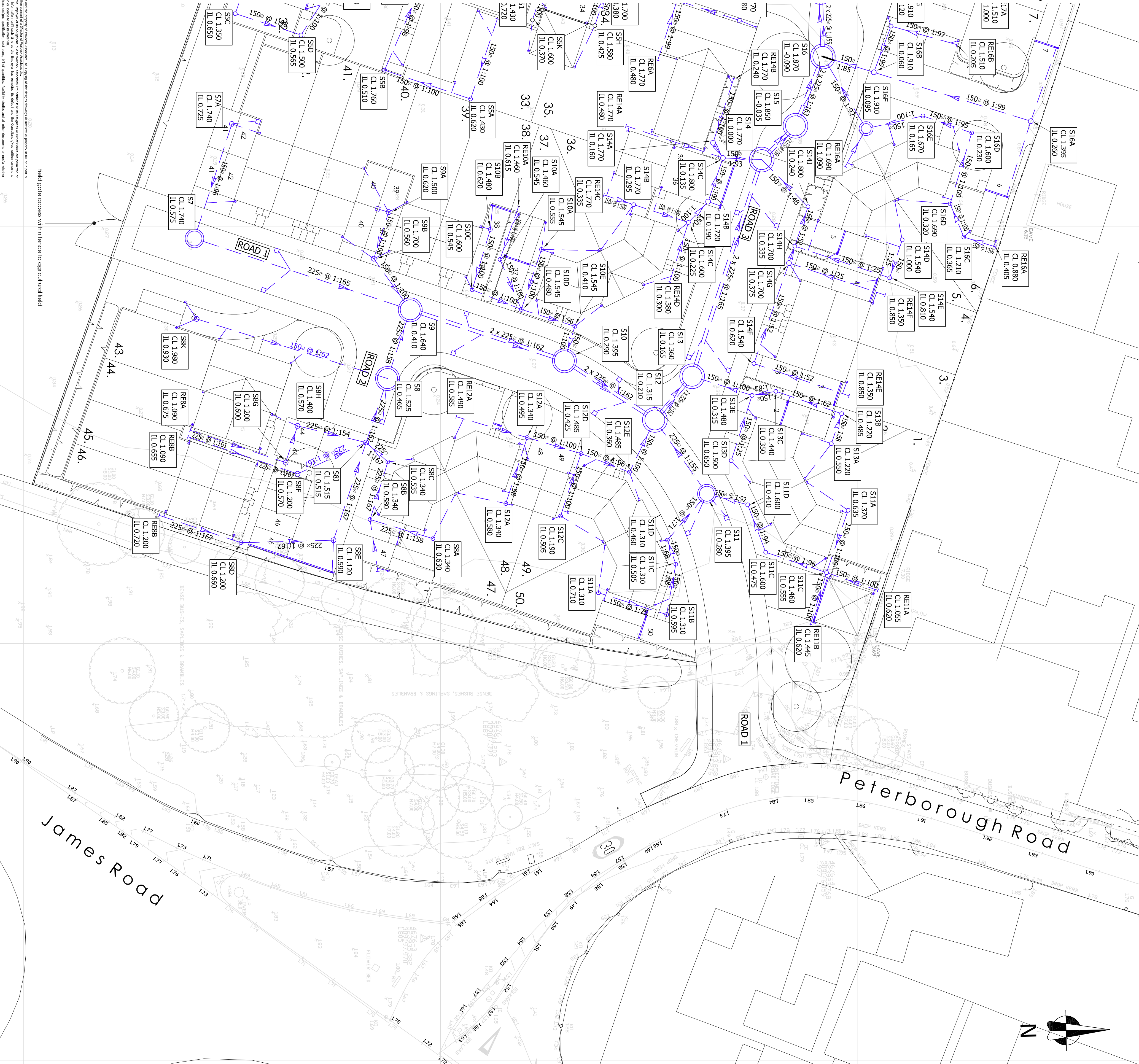
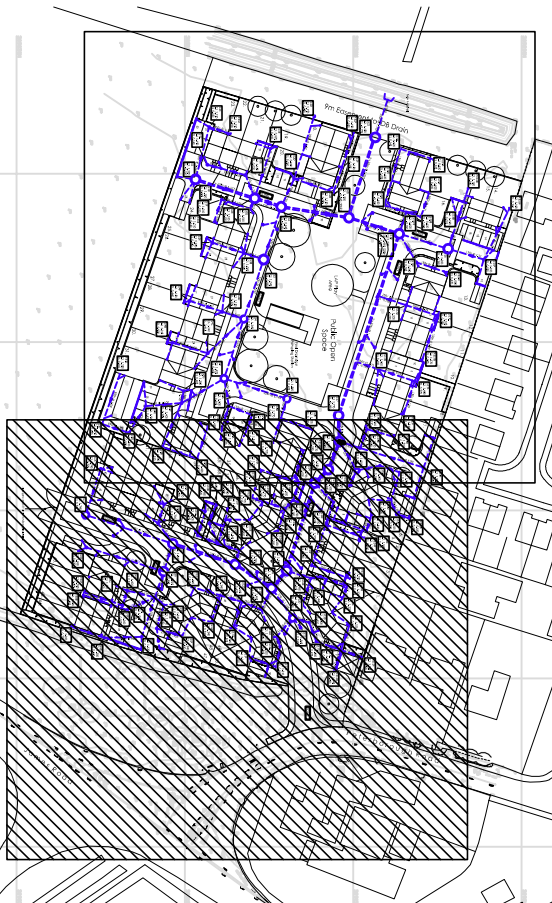




Notes

1. Do not scale this drawing.
2. All dimensions are in millimetres unless stated otherwise.
3. This drawing is to be read in conjunction with all other relevant drawings and specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
5. Some services are present on this site, and the contractor should satisfy himself as to their location prior to commencing any excavations. Any services indicated on the drawings are based on information given on the survey. No warranty is given as to the accuracy of this information and no liability accepted for incorrectly located plant. The contractor is to obtain all necessary utility company information prior to commencing any excavations on site. Contractor is recommended to accurately locate services by hand dug trial holes prior to carrying out mechanical excavation.
6. All works to be carried out in accordance with the requirements of Sewers For Adoption (7th Edition and the Adopting Authorities' requirements).
7. All private drainage to be constructed in accordance with the Building Regulations as current at construction.
8. All drains to have Class S granular bed and surround, except where
a. cover beneath roads or hardstanding is less than 0.9m
b. cover beneath soft landscaping is less than 0.6m
in which case class Z concrete bed and surround is required.
9. Side connections to SW to be 1000 @ 1/100 gradient and to FW to be 1000 @ 1/40 unless stated otherwise.
10. All underground gully connections to be 1500 and all Forebay gully connections to be 1000 unless noted otherwise or tying into existing gully connection.
11. Rain water pipe positions are based on information supplied by the Architect. For accurate positioning refer to Architects details.
12. Rain water pipe connections are to be potable.
13. Refer to Architect / M&E details for above ground to below ground drainage pipe positions.
14. All pipes to be Clayware or Concrete:
A) 1500mm diameter strength class FN 22
B) 1000mm diameter strength class FN 22
C) 750mm diameter strength class FN 22
D) 600mm diameter strength class FN 22
E) 450mm diameter strength class FN 22
F) 300mm diameter strength class FN 22
G) 225mm to 150mm diameter strength class FN 22
15. When connecting to existing drains/sewers the contractor must ensure the final run is potable.
16. Where new pipes connect into existing pipe runs, connection is to be made by insertion of proprietary pre-formed junction pipe into run using appropriate hand seal type repair couplers. Slide connections are not permitted.
17. Where pipes pass through the manhole wall a joint must be formed within 150mm of the wall.
18. All pipes to enter manhole with soffits level.
19. Where drains pass through footings and openings are formed provide linets over, ensuring 50mm minimum clearance all around. Pipe is to be provided with compressible material surround, the opening is to be masked by rigid steel. I.e. cement particle board material to prevent ingress of vermin.
20. All chambers to have ductile iron, single seal lock down covers to grade D400 BS EN 124 in road or car park areas and B125 BS EN 124 in all other areas. Re-sealed covers to be used in areas of child parking. Covers are to be aligned parallel to kerbs, paving orientation or structures unless otherwise shown.
21. New lifting/lowering design is based on the drains final loading on completion of the works and landscaping above, additional protection may be required to these pipes during construction, particularly the shallow sections.
22. Drainage Channels to be ACO MultiDrain M1000 sloping invert system with cash galvanised steel edge rails. Units ref. M1000 No1 to No20 to be laid in sequence on part sequence to suit location. Outlets to be ACO Universal Sump ref. 23410 with Riddable foul air trap ref. 7931. Gullings to be Heligault ductile iron lock down ref. 23405DD, load class C250. All to be installed in accordance with manufacturers recommendations.
23. Drainage Channels to all door thresholds (showers & showers to be specified) and to connect into new / existing pipe runs to the soffit to soffit.
24. Drainage Channels to door thresholds to be ACO MultiDrain M1000 constant invert channel system with cash galvanised steel edge rails. Units ref. M1000 No1 01U ref. 23650 to be laid with ACO Outlet to be Universal Sump ref. 23410 with Riddable foul air trap ref. 7931. Gullings to be Blackstock galvanised steel ref. 23401, load class C250. All to be installed in accordance with manufacturers recommendations.
25. Maintenance of sewers, manholes, drainage channels and silt pits should be inspected at 6 monthly intervals and cleaned out at 12 monthly intervals. A full inspection may show signs of structural failure or deterioration. It may also show specialist defects such as root interference, infiltration, inflow and/or odour to require remedial action. In all instances, inspection and cleaning should be carried out only by a specialist contractor and in accordance with the guidelines given in "Sewer Working in Sewers and at Sewage Works" published by National Joint Health and Safety Committee for the Water Services.
26. Plastic Pipes
All private drainage pipes to be Clayware or Plastic. Clay to be minimum FN22. Plastics to be BS EN 14011 with fittings to BS 4680 or BS EN 1335-CJ solid wall systems to be BS EN 14011 PE or PP to be BS EN 13476-1 and either -2 or -3.
Structural wall pipes in P.V.C.-U. PE or PP to be to BS EN 13476-1 and either -2 or -3.
All systems to be installed in accordance with manufacturer's installation and acceptance test procedures. All systems to be installed in accordance with additional acceptance test procedures to be specified where site support may be lost in the future due to parallel trench excavation eg for services or drain replacement/replacement.
27. P.V.C.-U. pipes must be able to withstand a gelling pressure resistance of 2600psi without damage as per the "Sewer Jetting Code of Practice 2nd Edition (2005-2006)" page 5.2.



Sheet 1 of 2

Sheet 2 of 2

Key

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P2	Updated Storm Drainage Layout	PM	01.04.15
P1	Preliminary Issue	PM	27.03.15

Ashley King (Developments) Ltd.

Residential Development,
Peterborough Road,
Crowland

Proposed Storm Drainage Plan
Sheet 1 of 2

Title	Proposed Storm Drainage Plan			
	Sheet 1 of 2			
Jdo No	1415-0137		Rev	P2
Drawing No	1415-0137-WDK-C-312			
Status	Preliminary			
Scale	1:250 @A1	Date	Mar.15	
Project Engineer	Drawn By		PM	
	Checked By		GPD	
	Approved By		GPD	