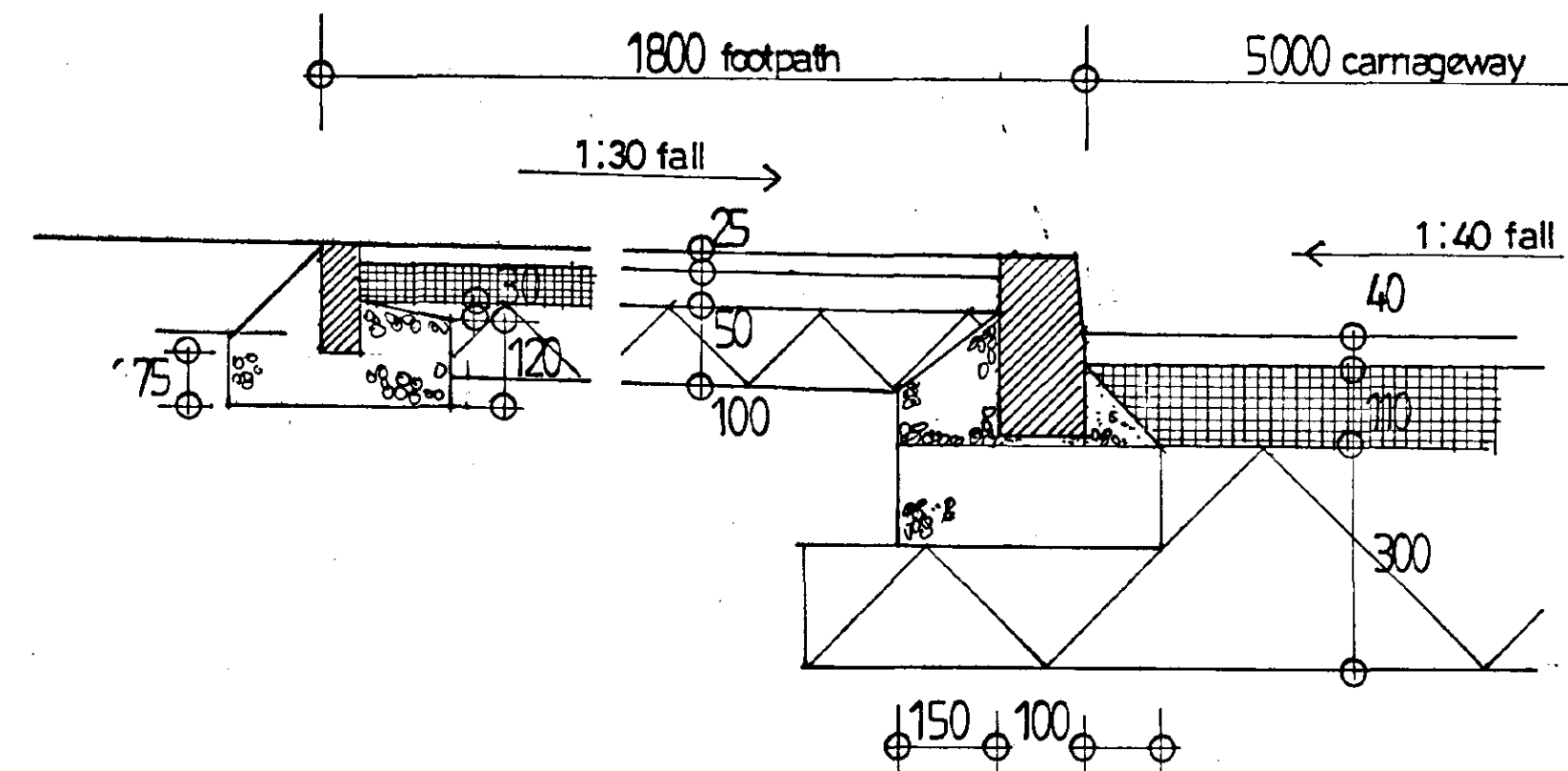




TYPICAL SECTION FOOTPATH - CARRIAGEWAY
1:10

CARRIAGEWAY
Wearing Course - 100mm of 10mm size close graded wearing course to BS4987 with 100 per bitumen binder.
Base Course - 110mm of 20mm size dense base course in layers bonded together with void content within 24-10% and 50 per bitumen binder.
Sub-Base - Type 1 graded aggregate crushed rock laid and compacted with 2 tonne double driven vibratory rollers.
Crossfall to carriageway - 1:40mm.

FOOTPATHS
Wearing Course - 25mm of 6mm size close graded to BS4987 with 100 per bitumen binder.
Base Course - 50mm of 20mm size dense base course to BS4987 with 100 per bitumen binder.
Sub-Base - 100mm thickness of type 1 graded aggregate of crushed rock vibrated with 2 tonne vibrating roller.
Crossfall to footpath - 1:30 mm.

KERBS
Carriageway - 125 x 250 half battered p.c. kerb 150mm concrete foundation and haunching in Gen. 3 Concrete (see detail) with 25 mm mortar bedding to kerb.

FOOTPATH
150 x 50mm p.c. edging set on min. 75mm x 330mm wide concrete foundation (Gen 3 mix) with haunching in ditto all as shown on detail drawing.

GULLIES
Road gullies to be approved plastic and trapped 750mm deep x 450mm dia with 150mm outlets. Gullies laid on and surrounded with 150mm concrete. Gratings to comply with BS124 and Class D 400.

CAR PARKING AREAS
Pompave Storm Water Service Control System 2000 to be installed strictly in accordance with manufacturers recommendations and specification comprising Pompave Aquaflo blocks size 200 x 100 x 80mm tightly butt jointed and surface vibrated 50mm depth of 5mm crushed stone to BS882. Sub-base of crushed gravel/rock sound and clean and free from clay. Material to have min. 10% fines value of 150Kw when tested in accordance with BS812. Sub-base compacted using vibratory roller. Geotextile under and on top of granular sub-base supplied by WTB Geotechnics 125 x 250mm p.c. half battered kerb on 150mm concrete foundation and haunching to perimeter of paved area. Geotextile layers turned up at kerbs brought up to block level and cut off finish with surface.

SURFACE WATER DRAINS
Pipes 100mm and 150mm upvc to BS41401 to gradients all as indicated on the drawing. Bedding all as specified for flexible pipes in Diagram 10 ie 100mm bed of granular material to BS41401 Annex B table B15 single size material or graded from 5mm - 10mm max size for 100mm pipes. Bedding material laid to top of pipe 300mm cover of selected fill or granular material free from stones larger than 40mm. Pipe jointing to be appropriate to the pipe material and remain watertight under working and test conditions.

Pipe protection - where pipes have less than the minimum recommended cover in Tabled 8, 9 or 10 Part H1, granular surrounded pipes to be protected with minimum 75 concrete cover reinforced with A88 steel fabric with compressible material under concrete and minimum 75mm granular material between the top of the pipe and underside of compressible filler. Refer to Diagram 11 of Part H1 of approved document.

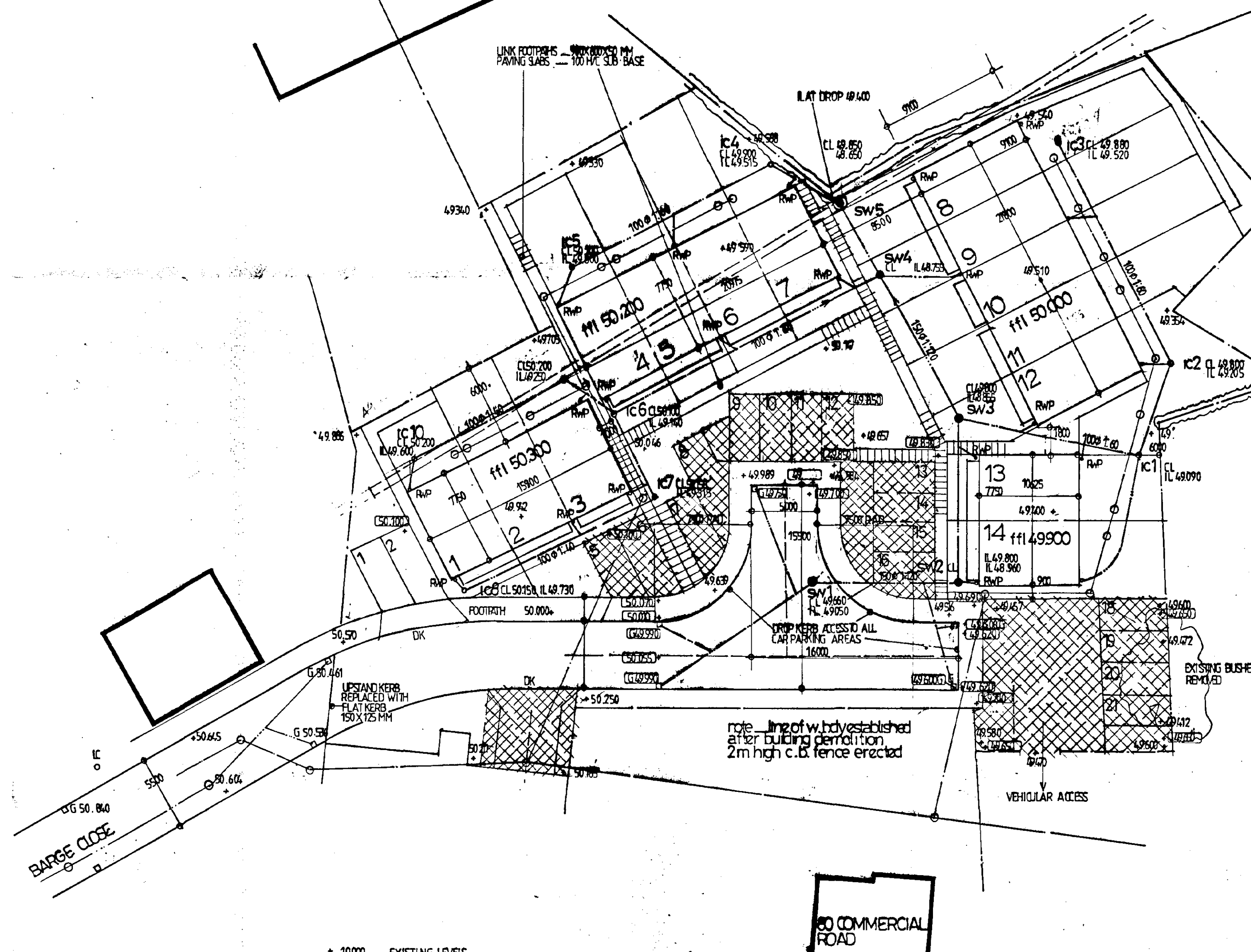
INSPECTION CHAMBERS
Inspection Chambers numbers IC2, 3, 4, 5, 8 and 10 - 320mm diameter black polypropylene (max 600mm invert) 110mm shallow access chambers with aluminium sealed covers and frames manufactured by Polypipe or similar approved.

Inspection Chambers numbers IC6, 7 and 9 - 460mm diameter 110mm inspection chambers with C.I. cover and polypropylene frame (Class A pedestrians and pedal cycles only). Chamber base set on concrete bed and surround up to top of base flange. Side riser units as required.

SW2 AND 3 AND 4
Inspection chambers - 450mm diameter 160mm chambers with 160 x 110mm circular base with concrete bed and surround. 460mm dia. c.i. cover and polypropylene frame (Class A pedestrians and pedal cycles only). Chamber base set on concrete. Circular riser units etc as required.

SW1 MANHOLE
160mm manhole base circular 750mm dia (MDPE) concrete bed and surround. 750 dia. p.c. changer rings to BS5911 with H.D. p.c. cover holed for 450 x 600mm 2 course Class B eng. bricks with concrete haunching etc.

SW5 MANHOLE
Manhole installed on 600mm dia. surface water drain run. 1200 dia. p.c. changer rings to BS5911 set on 150mm concrete base. Heavy duty p.c. cover and frame holed for 600 x 450mm medium duty cover and frame set on 2 course Class B engineering bricks with concrete haunching.



+ 10000 EXISTING LEVELS
C 10000 PROPOSED LEVELS

SITE LAYOUT

SURFACE WATER DRAINAGE - EXTERNAL WORKS
1:250

SHDC
Planning & Development
18 MAR 2003
Ref: C359/03

22-28 LINDEN COURT

30 LINDEN COURT

30 COMMERCIAL ROAD

DETERMINED
PLAN

CASTLE BUILDING LTD
Residential Development
Barge Close Spalding

Morley Newborn
architectural technicians
10a Portland Street Lincoln LN5 7JX Tel: 0522 542589
Fax: 0522 530652

Date: March 2003 Scale: 1:250
Drawing No: 1699.01.22