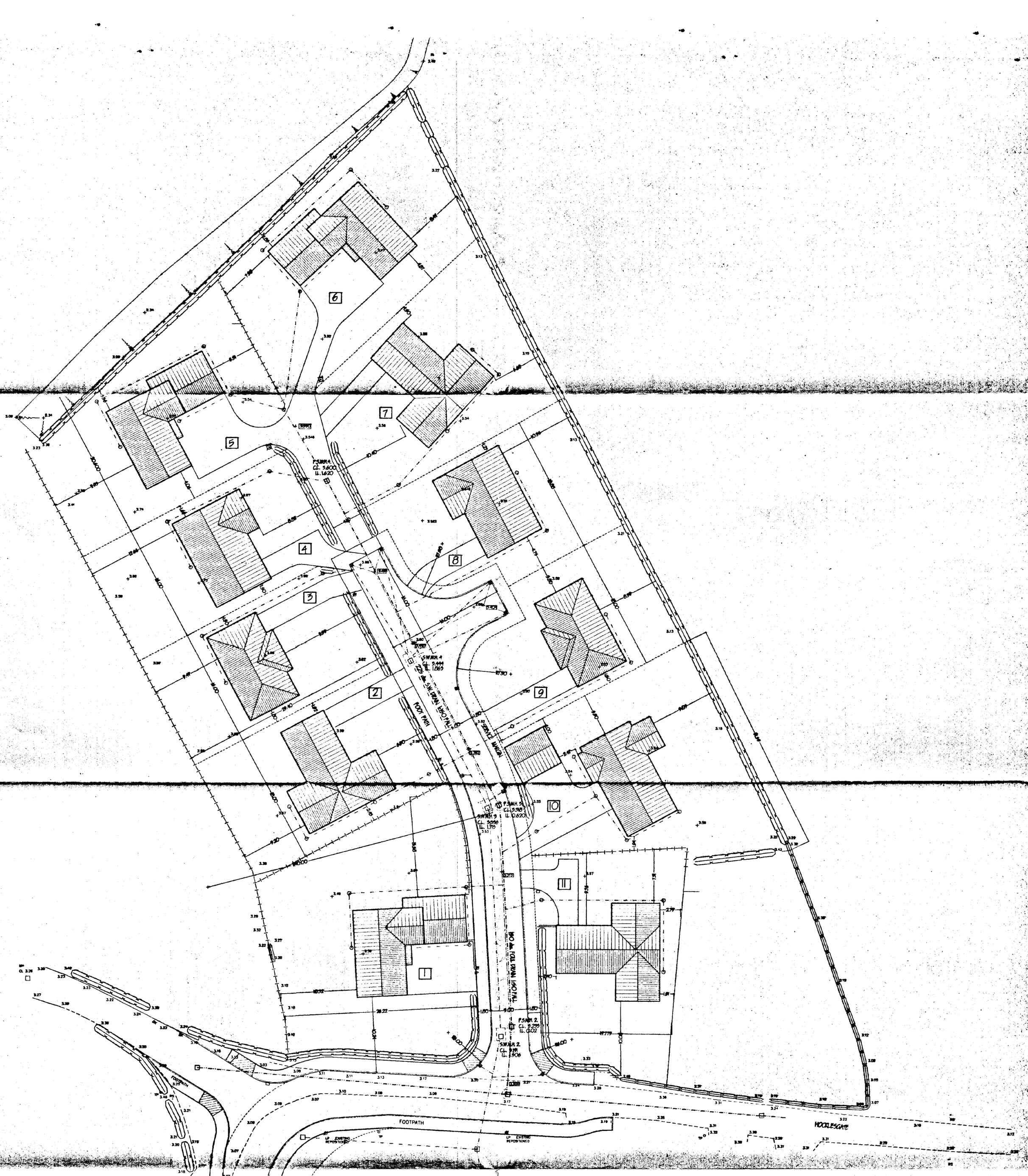
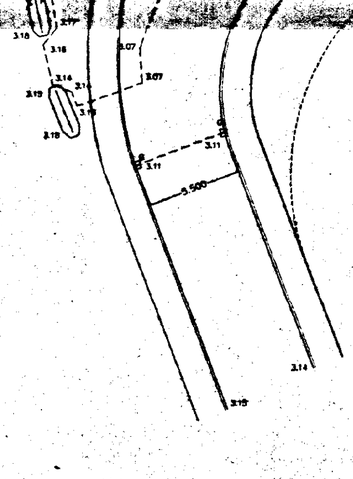
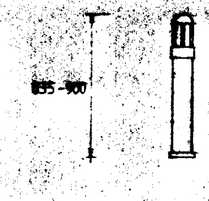






PEDESTRIAN BOLLARD DETAIL

Provide lighting shown thus ⊙ as plan

fluorescent lamps with 'black' cast alluminium pole, base & top. dawn-till-dusk' photo cell switch

NOTES.

LEVELS RELATED TO FOUL MANHOLE COVER IN HOCKLESGATE LEVEL OF 9.910

ANY SITE FRONTAGE DRAINAGE SHOULD BE AGREED ON SITE WITH THE DIVISIONAL SURVEYOR

GIVE WAY MARKINGS AND ANY NECESSARY SIGNING TO BE AGREED ON SITE WITH THE DIVISIONAL SURVEYOR

PRAM CROSSING POINTS AT RADII SHALL BE PROVIDES WITH TACTILE PAVING.

OUTSIDE OF SEWERS TO BE min. 1.0m FROM INSIDE KERB LINE
OUTSIDE OF ALL MANHOLES TO BE min. 0.5m FROM INSIDE KERB.

SP LP STREET LIGHTING COLUMN TO L.C.C. SPEC. S/25/C/95 WITH R.E.C. SUPPLY ALL TO COMPLY WITH TERMINATION TYPE A DRAWING SD/14/4/4A.

3.522 PROPOSED LEVELS.

3.65 EXISTING LEVELS

DETERMINED PLAN

SOUTH HOLLAND DC
HOUSING & PLANNING
10 DEC 1998
Ref: 1229/98

revision	date	init	revision details.

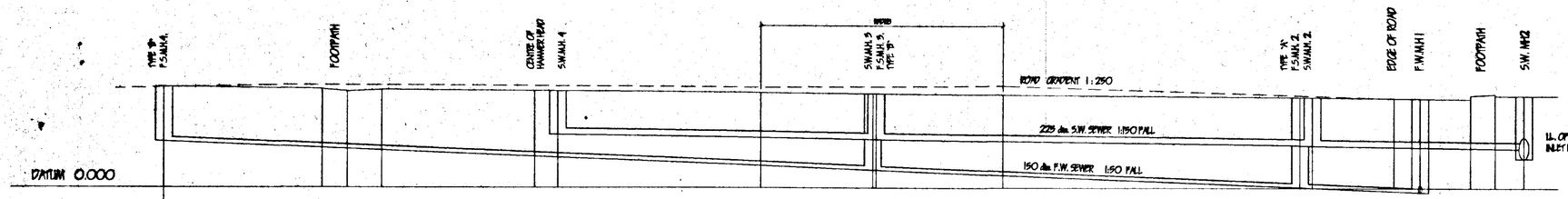
COOPER ARCHITECTURAL DESIGN
BRONNON, HOCKLESGATE,
FLEET, SPALDING, LINC'S PE12 8LF
Tel/Fax : 01406 423782 Mobile 0410 298899

Client
D. BROWN (BUILDING CONTRACTORS) LTD

Project.
RESIDENTIAL DEVELOPMENT
HOCKLESGATE,
FLEET, SPALDING,
LINC'S.

Drawing.
BLOCK PLAN DRAINAGE

Scale 1:250	Drawing No 9635:25
Date NOV. '98	Drawn J.C.



	F.S.MH.4.				S.W.MH. 4	S.W.MH. 3	F.S.MH. 5.	F.S.MH. 2.	S.W.MH. 2.	F.W.MH 1		S.W. MH2
CHAINAGE	11.900	0.000	1.800	4.900	15.900	34.920	40.240	70.900	70.920	77.259	79.100	82.736	84.959	86.959
EXISTING C.L.		9.950	9.600	9.650	5.800	5.950		5.226	5.200	5.200		5.170	5.170	
PROPOSED ROAD C.L		9.928	9.600	9.481	5.948	5.982	5.982	5.299	5.200	5.200		5.170	5.987	
FOUL SEWER C.L.	5.600						5.341				5.200			
FOUL SEWER I.L.	1.820						0.620	0.020			-0.140			
S. W. SEWER C.L.					5.495	5.990								5.290
S. W. SEWER I.L.					1.865	1.715	1.715	1.906	5.181					1.490

MANHOLE MARK

LONGITUDINAL SECTION HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100

ROAD CONSTRUCTION
40mm WEARING COURSE OF CLOSE GRADED BITUMEN MACADAM to BS—REFERENCE, SIZE, GRADE, CHARACTER.
100mm BASE COURSE OF DENSE BITUMEN MACADAM, 20mm NOMINAL SIZE. MIN. 99% OF CRUSHED AGGREGATE
SUB BASE TO DEPARTMENT OF TRANSPORT CLAUSE 803. TYPE 1 GEOTEXTILE MEMBRANE TO L.C.C. DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION REQUIREMENTS. 254 x 127 PRECAST CONCRETE KERBS SET ON 15 / 20 N/mm² mix CONCRETE. DROPPED OR TAPERED KERBS TO ACCESSES SHALL BE 254 x 127 REDUCING TO 150 x 127. PREFIX 'M' ON DRAWING 'A' MARK TANGENT OF ALL JUNCTIONS. ALL LAID TO B.S. 7263 pt 2.

FOOTPATH CONSTRUCTION
25mm OF 6mm NOMINAL SIZE DENSE BITUMEN WEARING COURSE. 90mm COMPACTED CRUSHED ROCK BASE COURSE OF DENSE BITUMEN MACADAM 20mm NOMINAL SIZE. MINIMUM 100mm CRUSHED AGGREGATE SUB BASE (DOT TYPE 1)

ONE WAY SIGNING+ ANY OTHER SIGNING AND MARKINGS TO BE AGREED ON SITE WITH DIVISIONAL SURVEYOR.

DRAINAGE
ALL PIPES TO BE EITHER SPIGOTED VITRIFIED CLAY PIPES, WITH FLEXIBLE MECHANICAL JOINTS, BED ON AND SURROUND WITH MIN. 150mm PEA GRAVEL. ALL SIZES AND FALLS SHOWN ON PLAN
ALL PIPES WITH LESS THAN 1.2m COVER TO ROAD LEVEL TO HAVE MIN. 150mm 5N MIX CONCRETE SURROUND. JOINTED TO CORRESPOND WITH PIPE JOINTS WITH 15mm PERFORATED FELT PIPE JOINTS TO BE TAPED TO PREVENT INGRESS OF WATER.

ROAD GULLIES.
GULLEY POTS TO HAVE IRON INTERNAL DIAMETER OF 450mm AND BE 750mm DEEP, 150mm RAPPED OUTLET AND RODDING EYE. ALL OF APPROVE MANUFACTURE IN PRECAST CONCRETE TO B.S. 556 OR VITRIFIED STONE TO B.S. 539. GULLEY POTS AND CATCHPITS SHALL BE LAID ON AND SURROUNDED WITH 150mm CLASS A CONCRETE.
GULLEY GRATES AND FRAMES TO BE EN 124 GROUP 4 (CLASS D400) HINGED BUT NOT REMOVABLE AND SHALL HAVE A NOMINAL WIDTH OF 450mm WITH A MIN. AREA OF WATERWAY OF 900 cm² eg FRAMES TO GULLY POTS SHALL BE BEDDED ON MIN. ONE COURSE CLASS B ENGINEERING BRICKWORK, TOP OF FRAME TO BE BELOW LEVEL OF WEARING COURSE TOLERANCE 0mm TO -9mm

MANHOLE SIZES.

PIPE DIAMETER (mm)	INT. DIA OF MANHOLE
LESS THAN 375	1200mm
(ONLY WHERE DEPTH TO SOFFIT EXCEEDS 1.5m)	
375 - 450	1350mm
900 - 700	1800mm
750 - 900	1800mm

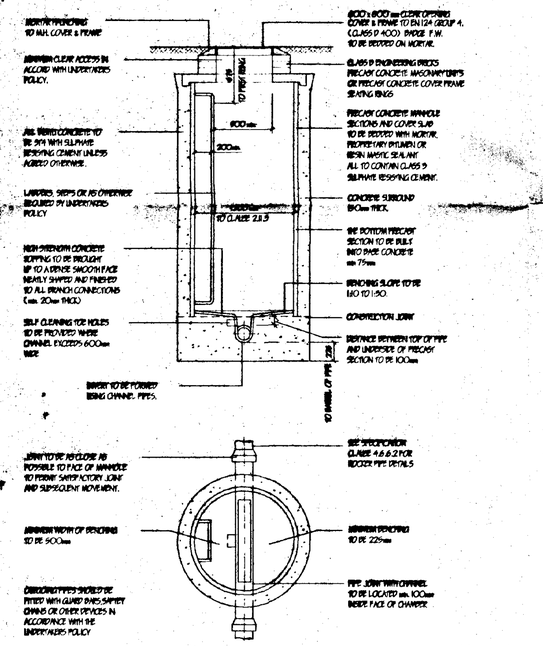
LIMITATIONS.
This drawing is limited to the amount of information contained and does not purport to contain a full specification of the works. It is solely for the purpose of obtaining Planning / Building Regulation approval.
The drawing must not be used as a contract document alone.
All dimensions should be taken from wter than actual work. Under no circumstances shall measurements be scaled from this drawing for construction or ordering purposes.
All open dimensions shall be checked by the Builder / Contractor and will be his responsibility from commencement of site works.
The work s will not be inspected or inspected on site by C.A.D. or any representative thereof. It is the client or their appointed agents responsibility to control workmanship, substitution of materials, adherence to specification, variations to contract etc.

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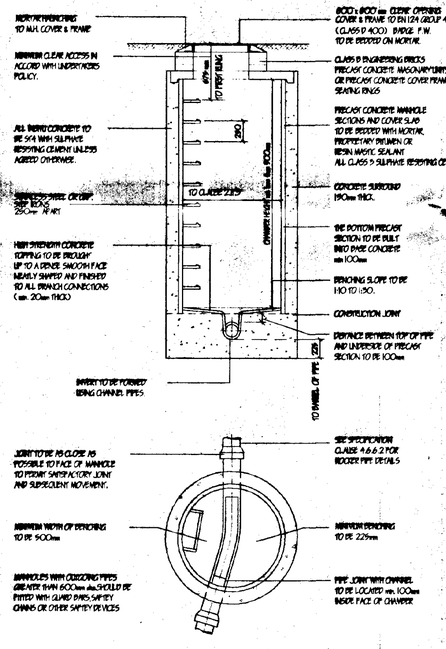
STANDARDS.
All materials to be new unless otherwise stated and all components and materials etc. to be used fitted and installed etc. in strict accordance with manufacturers instruction and relevant Code of Practice.
Materials shall conform to appropriate British Standard Specification or BBA Certificate or European Code equivalent.

HEALTH & SAFETY.
The Employer / Client shall ensure that the selected contractor is competent with and selects all resources necessary to achieve compliance with Health & Safety Regulation for Building Sites and Work Places.
The Employer / Client is advised that should the works need to comply with the Construction Design and Management Regulations an independent Planning Supervisor will be required.

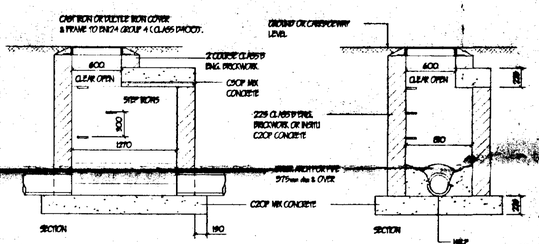
SCOPE OF THE WORKS.
The works shall comprise of all that is shown on the drawing and details. Work that may not be specifically shown but may be reasonably informed as necessary to carry out the works shall be deemed to be included.

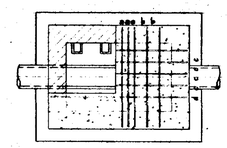


TYPICAL MANHOLE DETAIL TYPE A. PIPE DIA UP TO 450mm
DEPTH FROM G.L. TO SOFFIT OF PIPE 3m TO 6m.



TYPICAL MANHOLE DETAIL TYPE B.
MAX. DEPTH FROM G.L. TO SOFFIT OF PIPE 5m



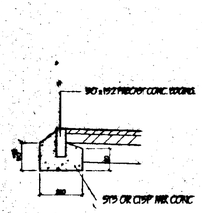


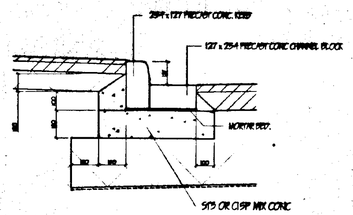
PLAN AT REINFORCEMENT LEVEL

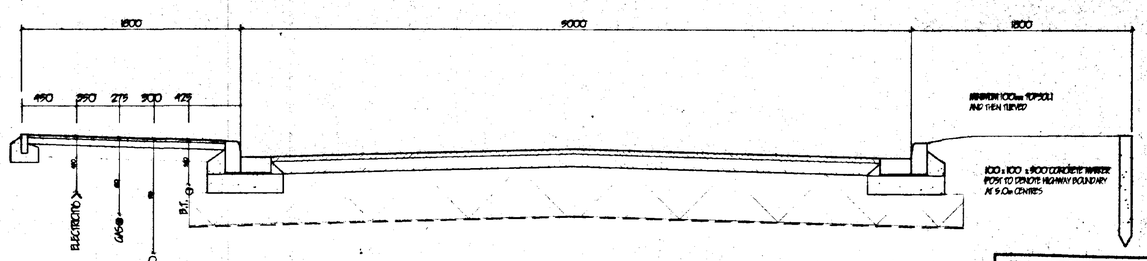
NOTES
1. MORTAR REFD TO BE CLASS 1.
2 ENGINEERING BRICKS TO BE CLASS B TO B.S. 3921
3 16mm MINIMUM COVER TO STEEL
4 ENTRANCE TO CATCHPIT TO BE MIN. DISTANCE FROM CHAMFER.
5 STEP IRONS TO B.S. 5391 WHEN INVERT EXCEEDS 900mm BELOW COVER
6 COVER AND FRAME TO EN 124 GROUP 4 (CLASS D400)

a - 12mm dia M.S. BARS 1200mm LONG AT 75mm CENTRES
b - 12mm dia M.S. BARS 1200mm LONG AT 150mm CENTRES
c - 10mm dia M.S. BARS 890mm LONG AT 140mm CENTRES
d - 12mm dia M.S. BARS 1695mm LONG.

TYPICAL MANHOLE DETAIL SURFACE WATER. (OUTLINE OF PROPOSED CLAUSE 9.8.8)
DEPTH FROM G.L. TO SOFFIT OF PIPE 2m MAX.







ROAD SECTION 1:25

DETERMINED PLAN

SOUTH HOLLAND DC
HOUSING & PLANNING
10 DEC 1998
Ref: 1229/98

revision	date	init.	revision details.

COOPER ARCHITECTURAL DESIGN
BRONAVON, HOCKLESGATE,
FLEET, SPALDING, LINC'S PE12 8LF
Tel/Fax : 01406 423762

Client.
D. BROWN (BUILDING CONTRACTORS) LTD.

Project.
RESIDENTIAL DEVELOPMENT,
HOCKLESGATE,
FLEET,
SPALDING,
LINC'S.

Drawing.
DRAINAGE DETAILS.

Scale	Drawing No. 9635.22
Date. JUNE '98	Drawn. J.C.