SOUTH HOLLAND DISTRICT COUNCIL

Town and Country Planning Act 1990

Approval required by Condition of Planning Permission

Reference: H05/0574/93 Received:18-JUN-93 Type:CONDITION COMPLIANCE

Earlier Permission: H05/1316/92

Name: Ashwood Homes
Holbeach Manor
Fleet Road
Holbeach
Spalding Lincs PE12 7AX

Agent: Robert Doughty
32 High Street
Helpringham
Sleaford
Lincs NG34 ORA

Description: Roads and footway, details of highway surface water, disposal and foul drainage, protection of boles of trees.
Location : Phase III, Land off Foxes Low Road
Holbeach Spalding

South Holland District Council hereby give notice that CONSENT HAS BEEN GRANTED for the details submitted for the purpose of conditions attached to the planning permission, subject to any conditions below:

Director of Planning and Building Control Services
05-JUL-93 H05/0574/93

This decision refers only to that required for the purposes of the Town and Country Planning Act and not for Building Regulations or any other legislation. See enclosed notes relating to rights of appeal.

BRIAN SMITH Dip TP MRTPI Director of Planning & Building Control Services

Planning & Building Control Department, Council Offices, Priory Road, Spalding, Lincolnshire. PE11 2XE (Tel: 0775 761161)

CONDITION COMPLIANCE APPLICATION

4 COPIES OF FORM AND PLANS REQUIRED

For office use only

Application No. H05/0574/93

Date registered 18 JUN 1993

Grid reference

1. Please complete in block letters

NAME AND ADDRESS OF APPLICANT

Ashwood Homes
Holbeach Manor
Fleet Road
Holbeach
Lincolnshire PE12 7AX
Tel. No.

NAME AND ADDRESS OF AGENT
(if form completed by agent)

Robert Doughty Consultancy
32 High Street
Helpringham
Sleaford, Lincolnshire. NG34 ORA
Tel. No. 052921646(Contact) James R Blakey

Please complete in block letters

FULL POSTAL ADDRESS OF THE APPLICATION SITE

Phase III, Land off Foxes Lowe Road, Holbeach

OFFICE COPY

Please complete

EARLIER APPLICATION No.

This application **cannot be considered** unless the relevant reference is stated

H05/1316/92

Please complete

I attach the necessary plans and apply for approval as described below

Signed ..... Date 17 June 1993

Please complete the section below.

This form is for approval of additional details. For approval of reserved matters you should not use this form — ask for Planning Application forms.

If a condition restricts activity in some way, and you wish to remove that restriction, you should not use this form — ask for Planning Application forms.

If a condition requires activity to be carried out in a certain way, you do not normally need to apply for approval, unless the condition specifically requires it.

2. The application is for approval of details required by a condition (✓) ✓

State which details are submitted

Roads and Footway
Details of Highway Surface Water
Disposal and Foul drainage
Protection of boles of trees subject to
Tree Preservation Order No. 5

State drawing no's relating to the current submission	165/10/RAB 4, 5, 6, 165/12/1A 15, 16, 17
State condition no. under which this application is required	4, 6, 8

/⌒PLICATION ASSESSMENT

Notes for Case Officer

Site Inspection

Accuracy :
Neighbours :
Boundaries :
Site Features :

Inspected by
Date

Site Notice posted by
Date
Expiry

Individual Resident Notices required:

Addresses to be sent to –

Addresses delivered to –

Case Officer Conclusions

RECOMMENDATION/DECISION

NON-DETERMINATION

Permitted Dev (or equiv) .....
Non Development (or equiv) .....
Non Response after Direction .....

Senior Officer confirmed .....

Withdrawn .....

COMMITTEE

Confirmed as agenda .....

SUB-COMMITTEE

Confirmed as agenda .....

DPBCS AUTHORISED

Decision Issue confirmed .....

DELEGATED DECISION

Case Officer Recommendation

Approve ✓ (or equiv)

Refuse (or equiv)

Signed .....M. Date 3/2.

Notes:

☐ Disabled
☐ Prev conditions
☐ Amended plans –
Dwg no:
Received:

Conditions/Reasons: (cont overleaf)

DC INSTRUCTION SHEET

APPLICATION REF: H05/0574/9

Directions

Art 7 (Outlines)

☐ RM checklist

	Sit	Des	Ext	Acc	Land
Previous					
Current					
Required					

Reg 4 Scale drawing.... Highway S/W.... Agric appraisal....

☐ Non Std | Precise details:

Direction authorised by Senior Officer..... Date.....

Revalidation after Direction

Information satisfactory Signed..... Date.....

Valid date:

Amended description

Reconsultations:

All.....
Specified:

Unsatisfactory –
Further direction:
Signed.....
Senior Off.....

Precise details:

Additional Consultation/Publicity Required

		Publicity: >>	Consultations:	
Departure		.....	County	.....
Setting of LB		.....	E Heritage	.....
Public Right of Way		.....	Societies	..... G ROW
Discretionary		.....		

Extra Consultations:

WP Note –
G Group available
G* Group essential
(longer expiry)

Transport	D/Transp A15	..... G* T15	
TRA	D/Transp A18	.....	
	B Rail	.....	
Environment/	Env Services	.....	
Drainage	NRA	.....	
WAT	IDB	.....	
	Env Assess	..... G ENV	Specify:
Conservation	LB Demolish	..... G* DEM	
LB	Archaeology	..... G ARC	Specify:
	Eng Heritage	.....	
	Consultant	.....	Order No:
	Other	.....	Specify:
Hazards	HSC Group	..... G* HAZ	
	Specific	.....	Specify:
Other PLA		.....	Specify:

Case Officer J.A. BLACKLOCK

Senior Officer Confirmed ..... Date..... 23/6 Recorded DC....

ADMIN RECORD SHEET

Initial

Submitted Fee £ NIL

Receipt No

Date first Rec'd 18 JUN 1993

Registration

Reference H05/0574/93

Cross-Ref

Date 21-JUN-93 JAB

Validation

TYPE C COMP

Site area
No of dwellings
Floorspace

Earlier permission -- Ref:
New/Redevelop/Use/Ext/Alt/Works

Description to be recorded

Invalid
Site plans ☐
Certificate ☐
Fee ☐
Fee (not free) ☐
Inaccurate ☐
Incomplete ☐
Unclear ☐

Fees
Correct fee £NIL
Nil fee ☐
Discounted ☐
Previous app – ref:
Type of app
Reason:

Additional £
Refund £
Receipt No
Voucher No
Date
Date

Information

Index sheet 170. OS Plots
Grid ref 536950 324950

Ward
Parish

Inside IBD
Inside LP area

Constraints:

CA Cons Area ☐
LB Listed – Grade: ☐
ARC Archaeology
AM Ancient Mon
SSI Special Int ☐

TR Rural ☐
BP TR proposed 67m
LC Level Cross
FP Footpath
TPO Tree Pres ☐

Hazards –
Dist Bound ☐
Other: ☐

HAZ Site ☐
AIR Safeguard
LIN Elect
PIP Pipe
CON Waste/contamin

Linked to site Ref

Linked to property Ref
1419

Planning Records:
Earlier apps

B Reg Records:
Already submitted – Ref:
Request needed
Requested

BRIAN SMITH Dip TP MRTPI
Director of Planning & Building Control Services
Planning & Building Control Department,
Council Offices,
Priory Road, Spalding,
Lincolnshire, PE11 2XE

Telephone: (0775) 761161
Fax: (0775) 710772

SOUTH HOLLAND DISTRICT COUNCIL

H05/0574/93

CONDITION COMPLIANCE

Applicant: Ashwood Homes
Tel:

Agent: Robert Doughty
0529 21646

Description: Roads and footway, details of highway surface water disposal and foul drainage, protection of boles of trees.

Location: Phase III, Land off
Foxes Low Road
Holbeach
Spalding

Valid date: 18-JUN-93
Target dates:
To case officer 25-JUN-93
Inspected by 02-JUL-93
Extra contacts 09-JUL-93
Report if not clear by 23-JUL-93

Terminal date: 13-AUG-93
Target Committee: 04-AUG-93
Report deadline: 21-JUL-93

Case Officer:
J BLACKLOCK

DEVELOPMENT/CONSTRAINTS

Size:
Category: Misc works
Listed building:
Conservation Area:

Other Constraints:

CONSULTATIONS CARRIED OUT

	Sent	Expiry
L.C.C. - Obs Attached	fax 24/6/93	

SITE RECORD

Grid ref: 536950 324950
OS Sheet: 170 Parcel:

LINCOLNSHIRE COUNTY COUNCIL
DEPARTMENT OF HIGHWAYS AND PLANNING

FORM NO: H/A/3B

To: South Holland District Council Application Reference H05/0574/93

Form of notification by the County Director of Highways and Planning for DEVELOPMENT AFFECTING HIGHWAYS

With reference to the application dated
relating to the following proposed development:

1. National Grid Reference of a central point on site

	horizontal			vertical		
	3	6	9	2	4	9.

2. Address or location

PHASE III, FOXES LOW ROAD, HOLBEACH

3. Name, classification and number of road

III

4. Date application referred 24 - 6 - 93

5. State whether outline, detailed application etc.

CONDITION COMPLIANCE.

6. Description of proposed development/change of use including access details

ROAD, FOOTWAY & DRAINAGE DETAILS.

7. Notice is hereby given under the provisions of article 15 of the Town and Country Planning General Development Order, 1988, that the County Council as local highway authority:—

Delete as appropriate

a. Does not wish to restrict the grant of permission.

b. ~~Requests that any permission~~ given by the local planning authority shall include the conditions shown overleaf.

c. Requests that the local planning authority refuse the application (reason overleaf).

d. Requests the local planning authority to complete Form T.R. 108 para 10b as shown overleaf.

Date: 24 - 6 - 93 Signed: [signature]
Director of Highways and Planning

Robert Doughty

TOWN PLANNING • LANDSCAPE ARCHITECTURE • ARCHITECTURE

32 High Street, Helpringham, near Sleaford, Lincolnshire, NG34 0RA

Your Reference:

Our Reference: 165 12 JRB AKD

Tel: (0529 21) 646/7
Fax: (0529 21) 358

17 June 1993

Director of Planning
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincolnshire PE11 2XE

0574/93

Dear Sir

ASHWOOD HOMES
RESIDENTIAL DEVELOPMENT: PHASE III, FOXES LOWE ROAD, HOLBEACH

Please find enclosed information to satisfy all the Condition Compliances on the above development, Local Authority reference H05/1316/92. The Conditions requiring Compliance are numbers 4, 6, and 8.

The information gives details of highway surface water disposal and foul drainage plus the programming and specification of the roads and footways. In addition, Condition 8 requires steps to be taken to avoid damage to the trees protected by the Tree Preservation Order Number 5. It is proposed to erect a chestnut paling fence around the protected trees, please refer to drawing number 165/12/1A. In this way no works of any kind can be undertaken beneath the canopy of the trees.

I hope the enclosed satisfies the requirements of the planning permission and I look forward to receiving an approval in the near future.

Yours faithfully

James R Blakey

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

[illegible]

Dear Sir

ASHWOOD HOMES - PHASE III FOXES LOW ROAD, HOLBEACH.

Thank you for your letter dated 18th November [illegible] in connection with the above. I confirm that the use of Ibstock [illegible] Westbury Blend facings are acceptable with regard to the screening walls.

Yours faithfully

N [illegible]
Principal Planning Officer
Development Control

32 High Street
Helpringham
Sleaford
Lincolnshire
NG34 0RA

Telephone
0529 421 646/7
Facsimile
0529 421 358

Director of Planning
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincolnshire PE11 2XE

Robert Doughty Consultancy

Lincoln House
56/58 Clasketgate
Lincoln
LN2 1JZ

Telephone
0522 542330
Facsimile
0522 542331

18 November 1993

For the attention of Mr J Blacklock

Dear Sir

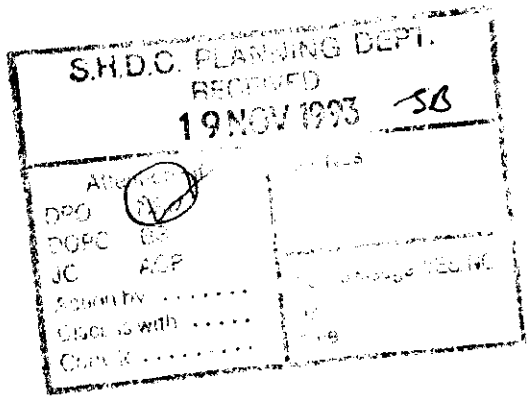
ASHWOOD HOMES
RESIDENTIAL DEVELOPMENT : PHASE III, FOXES LOWE ROAD,: SCREENING WALLS

Further to your letter dated 10 November 1993 and our subsequent telephone conversation on the 18 November 1993 regarding the screening walls for plots 46 and 49, we now propose to use Ibstock Nostell Welbury Blend bricks in their construction rather than Butterley Clockhouse Canterbury bricks as earlier specified.

I trust this substitution is acceptable to you.

Yours faithfully

James R Blakey



Your reference H05/1316/92

Our reference 165 12 JRB AKD

Please contact Helpringham Office

Planning
Architecture
Landscape Architecture

Principal, Robert Doughty
Dip TP, MRTPI
Dip LD, ALI

VAT Reg No 364 7780 17

DPO

SOUTH HOLLAND
Internal Drainage Board

Granted 6/7

Marsh Reeves,
Foxes Lowe Road,
Holbeach,
Spalding, Lincs.
PE12 7PA.

S.H.D.C. PLANNING DEPT.
RECEIVED
- 7 JUL 1993

Please contact: Mr. Staines

Tel: Holbeach (0406) 24933
Fax: (0406) 26501

Our Ref. RS/PAP/574/93/FES **Your Ref.**

Date 2 July, 1993

Dear Sir,

File

RESIDENTIAL DEVELOPMENT - ASHWOOD HOMES
FOXES LOWE ROAD, HOLBEACH - PHASE III

Thank you for the drainage details regarding the above project in respect of which I have the following observations to make.

As you will be aware, the highway water drainage system proposed ultimately discharges to my Boards culverted Foxes Lowe Drain situated on the Northern side of Foxes Lowe Road, via the highway drainage pipelines serving phases I and II. In accordance with the Boards policy therefore, my Board will seek a single once and for all time contribution towards future improvements of their system to ensure adequate capacity for increasing flows from continuing developments. In this instance, based upon the submitted details the sum due will be £1610 subject to engineering and administration fees in accordance with the scale set out below, and V.A.T. I look forward to receiving the applicants early agreement to make this payment to my Board when development commences. Should payment not be received within 12 months from the date of this letter, my Board reserve the right to re-assess the contribution due in accordance with the rate applicable when development actually commences.

The Engineering & Administration Fees are:-

Contribution		Percentage Fee
up to	£25,000	15%
£25,000 to	£100,000	12.5%
over	£100,000	10%

MINIMUM CHARGE £35

I gather a foul sewer connection is proposed and that soakaways are intended for the disposal of roof water run-off. I would suggest appropriate tests be undertaken to ensure the subsoils are suitable and that such soakaway systems will function adequately bearing in mind that high ground water levels may be experienced during periods of prolonged heavy rainfall.

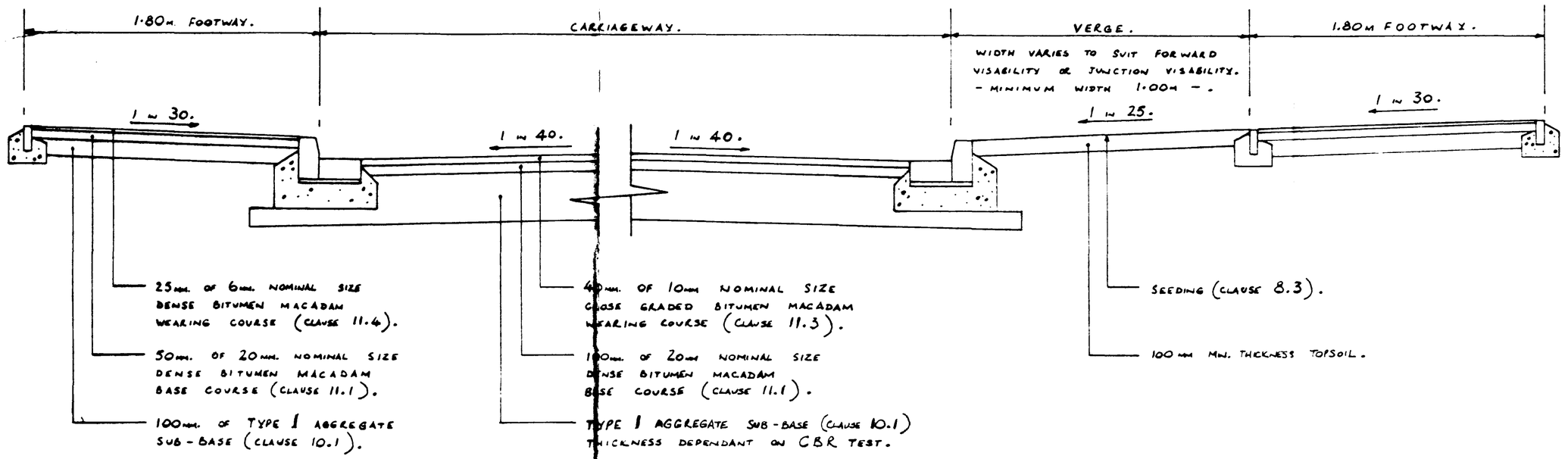
Our Ref:- RS/PAP/574/93/FES 2 July, 1993

A copy of this letter is being forwarded to the Director of Planning in order he is aware of my observations.

Yours faithfully,

ENGINEER TO THE BOARD

Robert Doughty Esq
32 High Street
Helpringham
Sleaford
Lincs NG34 ORA



CARRIAGEWAY, FOOTWAY AND VERGE — TYPICAL SECTION.

CONSTRUCTION CHART 1.

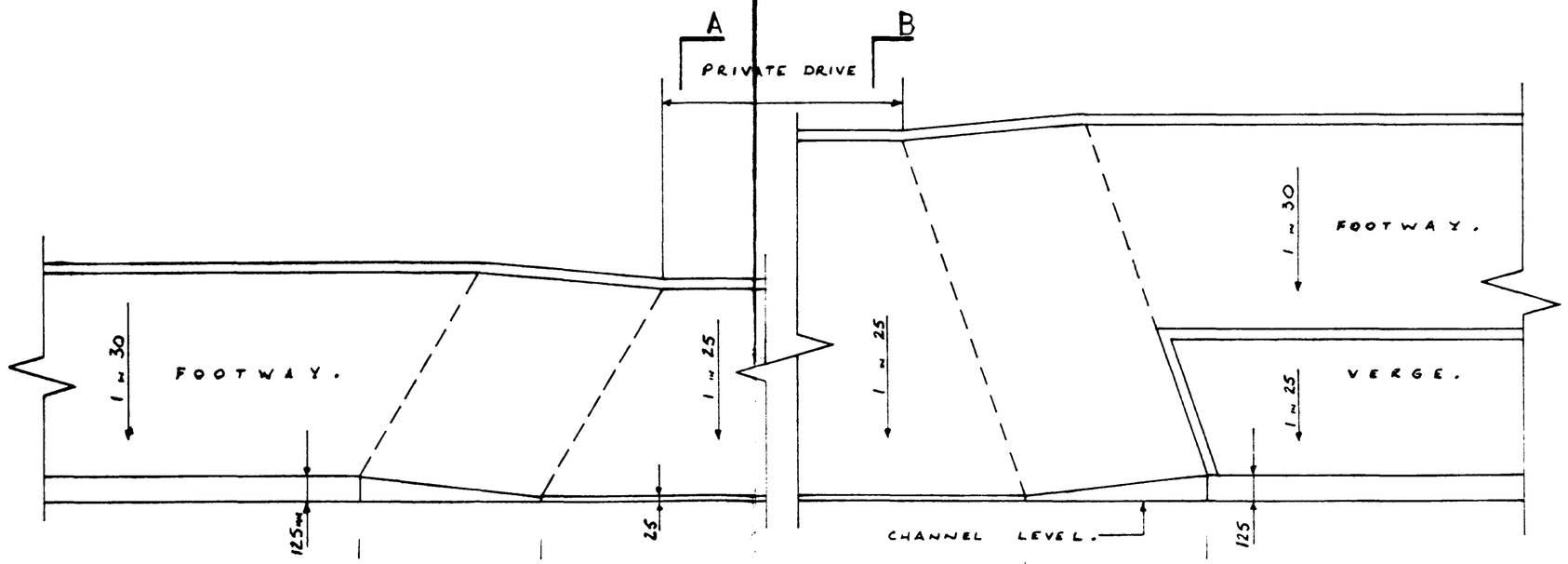
SUB-GRADE BEARING CAPACITY (CBR).	SUB-BASE (mm). FROST SUSCEPTIBLE SUB-GRADE. WITH GEOTEXTILE.	FROST SUSCEPTIBLE SUB-GRADE. WITHOUT GEOTEXTILE.	NON-FROST SUSCEPTIBLE SUB-GRADE. WITH GEOTEXTILE.	NON-FROST SUSCEPTIBLE SUB-GRADE. WITHOUT GEOTEXTILE.	SURFACING (mm). BASE COURSE.	SURFACING (mm). WEARING COURSE.	TOTAL THICKNESS REQUIRED (mm). FROST SUSCEPTIBLE. WITH GEOTEXTILE.	FROST SUSCEPTIBLE. WITHOUT GEOTEXTILE.	NON-FROST SUSCEPTIBLE. WITH GEOTEXTILE.	NON-FROST SUSCEPTIBLE. WITHOUT GEOTEXTILE.
BELOW 2%	450 +	600 *	450 +	600 *	100	40	590	740	590	740
2%	310	340	240	340	100	40	450	480	380	480
3%	310	310	190	240	100	40	450	460	330	380
4%	310	310	150	180	100	40	450	460	290	320
5%	310	310	150	150	100	40	450	460	290	290
6-20%	310	310	150	150	100	40	450	460	290	290
ABOVE 20%	310	310	150	150	100	40	450	460	290	290

* ASSUMES NO IMPROVEMENT IS POSSIBLE USING SUB-SOIL DRAINAGE TECHNIQUES. 600mm IS 300mm GRANULAR FILL AND 300mm SUB-BASE.

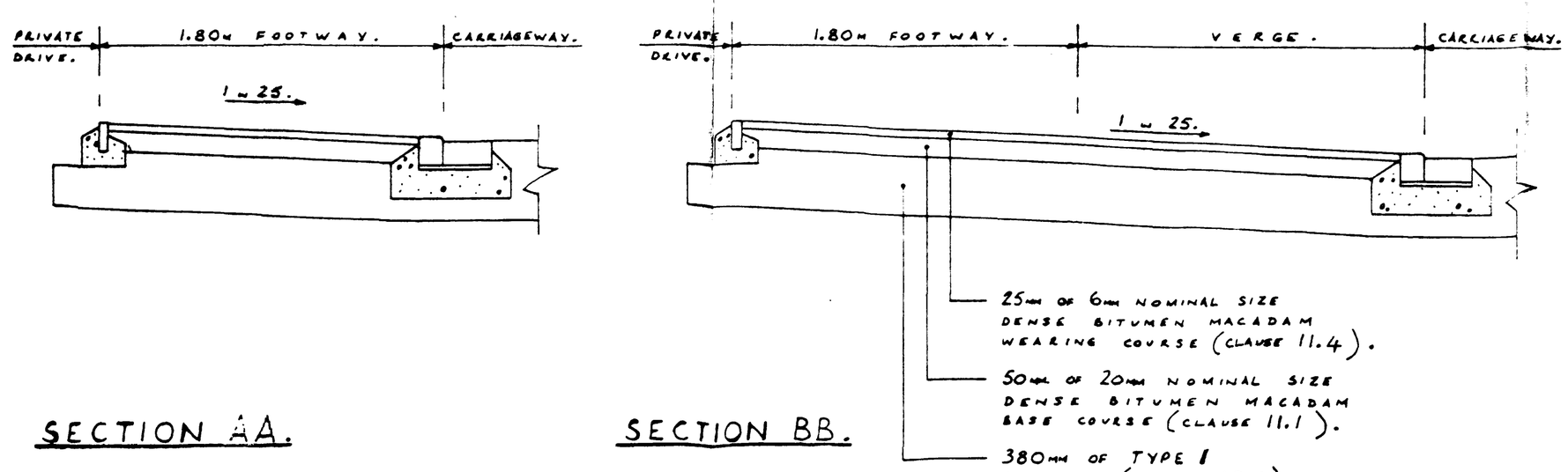
+ 450mm IS 450mm SUB-BASE.

CALIFORNIA BEARING RATIO (CBR) TESTS.

THE MAX. DEPTH OF ROAD CONSTRUCTION TO BE USED UNLESS PROVED OTHERWISE BY CBR TESTS THAT ARE APPROVED BY LINCOLNSHIRE COUNTY COUNCIL PRIOR TO ROAD CONSTRUCTION STARTING.

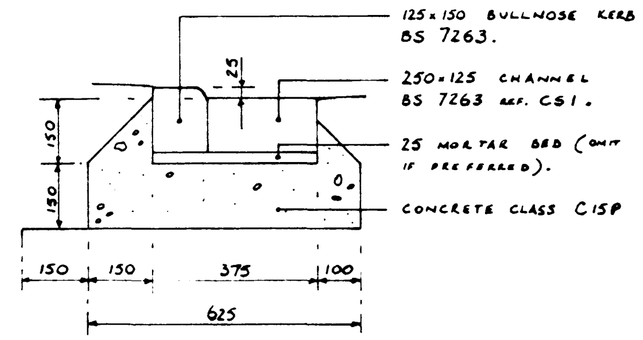


VEHICULAR CROSSING — PLAN / SECTIONAL ELEVATION.

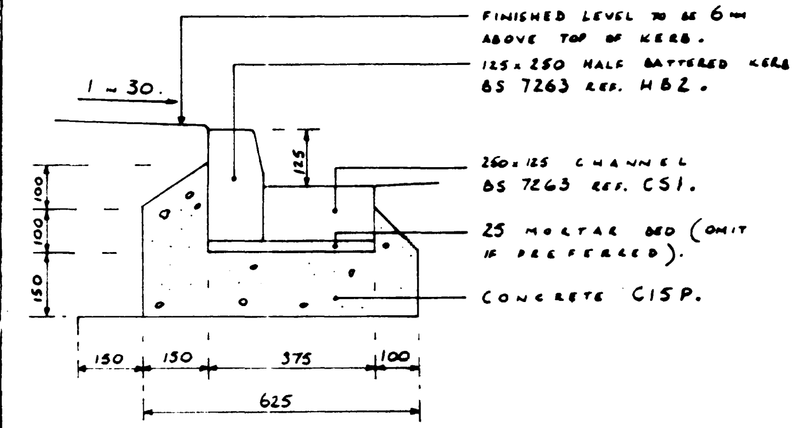


SECTION AA.

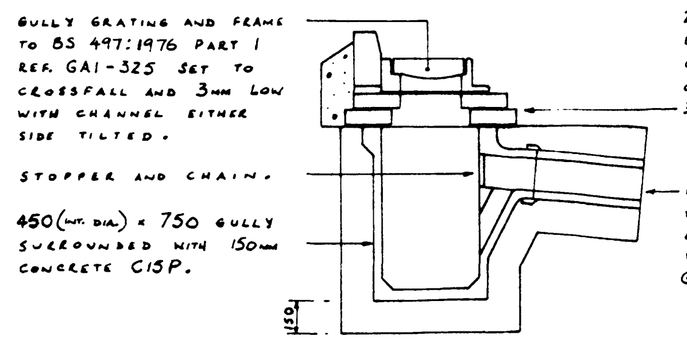
SECTION BB.



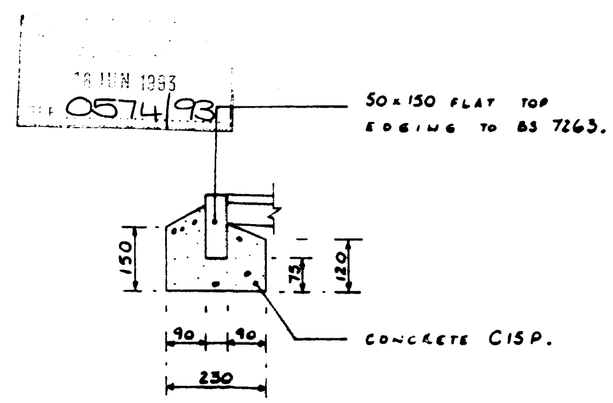
DROP KERB AND CHANNEL.



KERB AND CHANNEL DETAIL.



ROAD GULLY DETAIL.



DRAWING ISSUED 17 JUN 1993

EDGING DETAIL.

HIGHWAYS ACT — SECTION 38.

CONSTRUCTION TO BE IN ACCORDANCE WITH LINCOLNSHIRE COUNTY COUNCIL - DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION - OCTOBER 1991.

TYPICAL ROAD DETAILS.
RESIDENTIAL DEVELOPMENT —

SCALE — N.T.S.

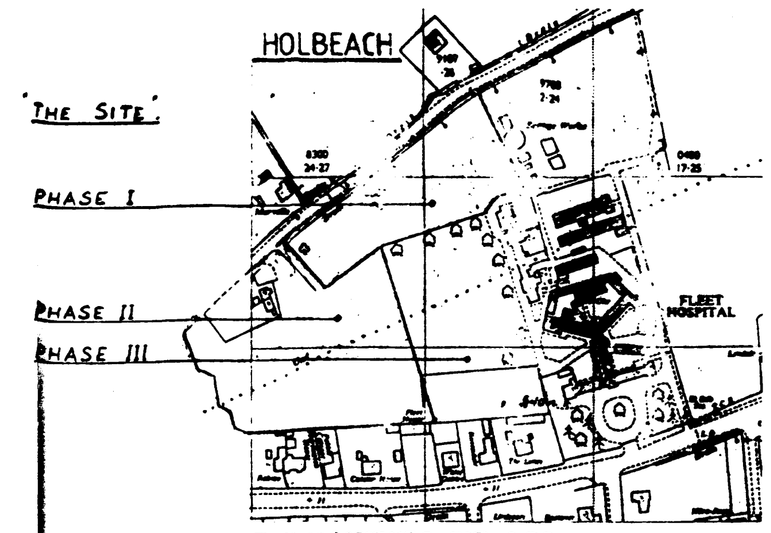
DRWN. by R. A. BLAKEY M.I.C.E 8.9.92.

165/10/RAB/4



ROAD LAYOUT PLAN.

PHASE 111.



LOCATION PLAN

Scale 1:2500 Crown Copyright Reserved

NOTES.

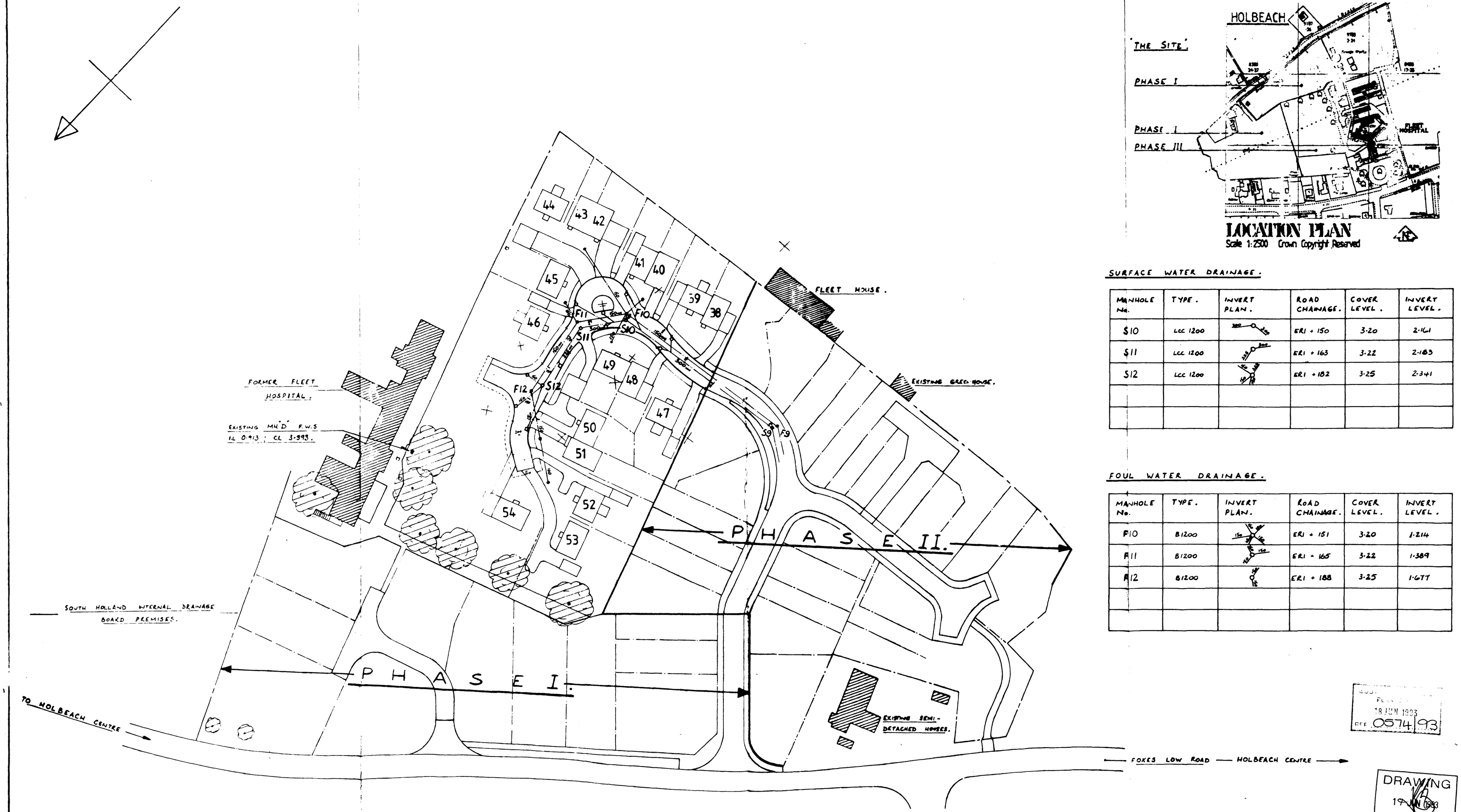
1. FOR TYPICAL ROAD CONSTRUCTION DETAILS SEE DRAWING No. 165/10/RAB/4.
2. ◕ PROPOSED LIGHTING COLUMN POSITION TO L.C.C SPECIFICATION 5/35/C/89.
3. ⌖ EXISTING GROUND LEVELS - SURVEY BY P.M.R MAY 1990.
4. FOR LONGITUDINAL SECTION OF PHASE II ESTATE ROAD SEE DRWG. No. 165/10/RAB/13.

18 JUN 1993
0574 93

DRAWING
17 JUN 1993
ISSUED

ROAD LAYOUT AND SETTING OUT PLAN
FOR
ASHWOOD HOMES - RESIDENTIAL DEVELOPMT.
FOXES LOW ROAD, HOLBEACH. PHASE III

SCALE 1 - 500.	165/12/RAB/15
DRWN. by R.A.BLAKEY M.I.C.E 24.5.93.	



SURFACE WATER DRAINAGE.

MANHOLE No.	TYPE.	INVERT PLAN.	ROAD CHAINAGE.	COVER LEVEL.	INVERT LEVEL.
S10	LCC 1200		ER1 + 150	3·20	2·161
S11	LCC 1200		ER1 + 163	3·22	2·183
S12	LCC 1200		ER1 + 182	3·25	2·341

FOUL WATER DRAINAGE.

MANHOLE No.	TYPE.	INVERT PLAN.	ROAD CHAINAGE.	COVER LEVEL.	INVERT LEVEL.
F10	B1200		ER1 + 151	3·20	1·214
F11	B1200		ER1 + 165	3·22	1·389
F12	B1200		ER1 + 188	3·25	1·677

18 JUN 1993
REF 0574/93

DRAWING ISSUED 19 JUN 1993

DRAINAGE LAYOUT PLAN.
PHASE III.

NOTES.

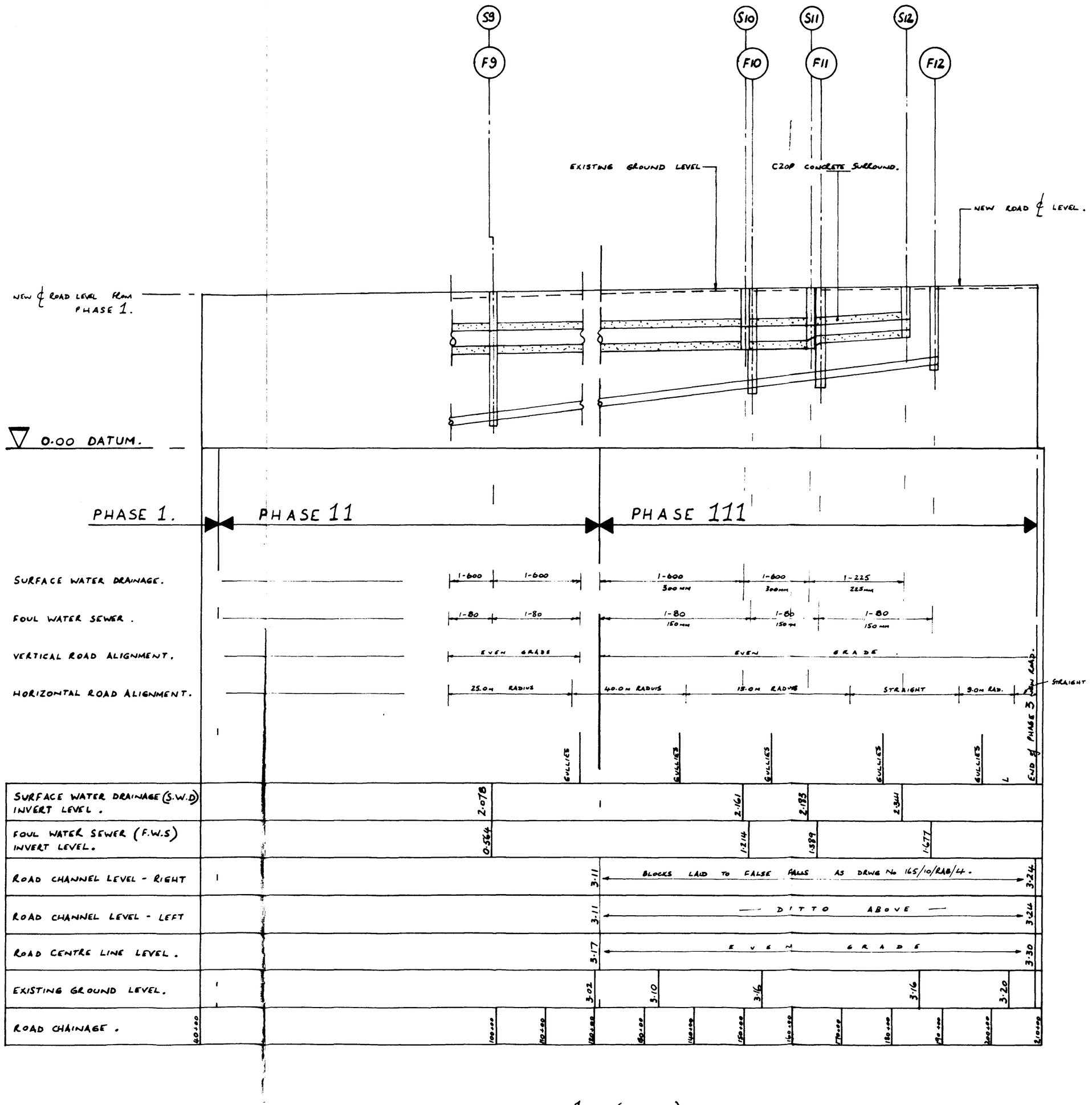
1. FOR TYPICAL DRAINAGE DETAILS SEE DWG No. 165/10/RAB/5.
2. FOR TYPICAL MANHOLE DETAILS SEE DWG No. 165/10/RAB/6.
3. SOAKAWAYS TO BE 5·00m (min.) FROM ADJACENT PROPERTY.
4. PERCOLATION TESTS TO BE CARRIED OUT TO DETERMINE SIZE OF SOAKAWAYS. (PROCEDURE AS BRE DIGEST 151.)
5. SOAKAWAYS TO BE CRATE TYPE AS L.C.C DETAILS or SIMILAR APPROVED.
6. FOR ROAD + SEWER LONGITUDINAL SECTIONS SEE DWG. No. 165/10/RAB/17.

FOUL WATER AND SURFACE WATER DRAINAGE LAYOUT — FOR ASHWOOD HOMES - RESIDENTIAL DEVELOPMENT FOXES LOW ROAD, HOLBEACH. PHASE III

SCALE 1 - 500.

DRWN. by R.A.BLAKEY M.I.C.E 15.6.93.

165/12/RAB/16



ESTATE ROAD 1 (E.R.1).

(THIS ROAD TO BE ADOPTED BY L.C.C.)

NOTES.

1. **SURFACE WATER AND HIGHWAY DRAINAGE.**
TO BE CONSTRUCTED IN ACCORDANCE WITH LINCOLNSHIRE COUNTY COUNCIL DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION 1991.

2. **FOUL WATER DRAINAGE.**
TO BE CONSTRUCTED IN ACCORDANCE WITH WATER AUTHORITIES ASSOCIATION SEWERS FOR ADOPTION - 3rd. EDITION.

3. **PIPE BEDDING.**
DEPTH OF COVER TO BARREL OF PIPE
- EXCEEDING 1200
CLASS B BEDDING.
- NOT EXCEEDING 1200
150 MM CONCRETE SURROUND.

4. **PIPE MATERIALS.**
100 AND 150 MM DIAMETER
- VITRIFIED CLAY OR SUPERSLEVE.

5. **CONCRETE.**
ALL CONCRETE USED IN DRAINAGE WORKS TO BE CLASS 2 SULPHATE RESISTING IN ACCORDANCE WITH BUILDING RESEARCH ESTABLISHMENT DIGEST 250.

SOUTH ... PLANNING
18 JUN 1993
REF 0674/93

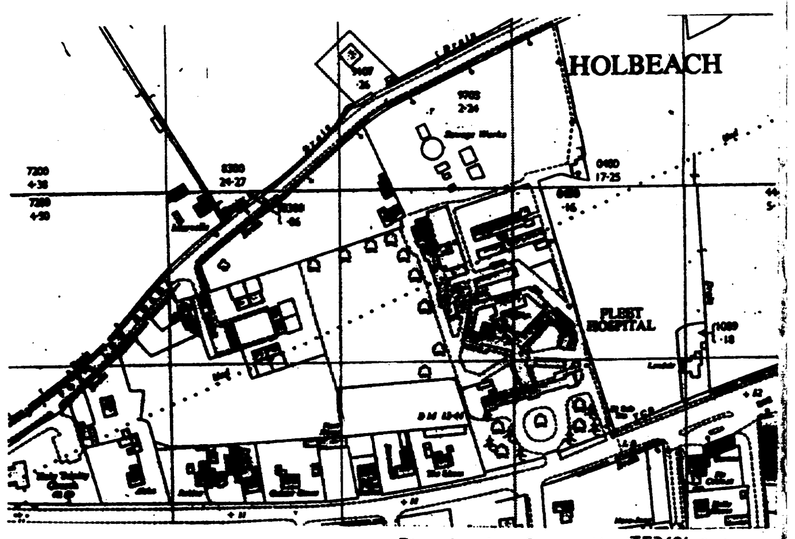
DRAWING ISSUED 17 JUN 1993

ROAD AND SEWER LONGITUDINAL SECTIONS.
FOR
ASHWOOD HOMES – RESIDENTIAL DEVELOPMT.
FOXES LOW ROAD, HOLBEACH. PHASE 111.

SCALE	HORIZ. 1-500. VERT. 1-50.	165/12/RAB/17
DRWN. by	R.A.BLAKEY M.I.C.E 12.6.93	

ASHWOOD HOMES

LAYOUT



SCALE 1:2500
LOCATION PLAN

Reproduced from the 1:2500 Ordnance Survey...1958.....map with the permission of the Controller of Her Majesty's Stationery Office, Crown Copyright reserved.

HOUSING SCHEDULE

Plot	Housetype		Total
38,41,42,43,48	Kentwell	- 3 bed House	5
39	Hallam Mk II	- 3 bed House	1
44,47,52,46	Hallam Mk III	- 3 bed House	4
51	Hatfield	- 3 bed House	1
40	Hatfield Mk II	- 3 bed House	1
45,49,50,53,54,	Woburn	- 3 bed House	5

BRICK AND TILE SCHEDULE

Tiles

Sandtoft Terracotta Red Double Pantile

Plots 38,39,40,41,42,43,44,45,48,49,50,51

Garages Serving plots 38,39,41,42,43,44,45,48,49

Sandtoft Grey Double Pantile

Plots 46,47,52,53,54

Garages serving plots 47,50,51,53,54,52,46

Bricks

Butterley Clockhouse Capel Multi

Plots 38,39,48,52,53,54,49

Garages Serving plots 38,39,48,47,53,54,52

Butterley Clockhouse Canterbury

Plots 46,51,50,47

Garages serving plots 46,50,49

Butterley Clockhouse Rusper

Plots 40,41,42,43,44,45

Garages serving plots 41,42,43,44,45

Contrasting Butterley Smooth Red Brick to be used to height of five courses above ground on phase III units.

18 JUN 1993
0574/93

DRAWING ISSUED 17 JUN 1993

REVISION

A. Reduction of Number of Dwellings

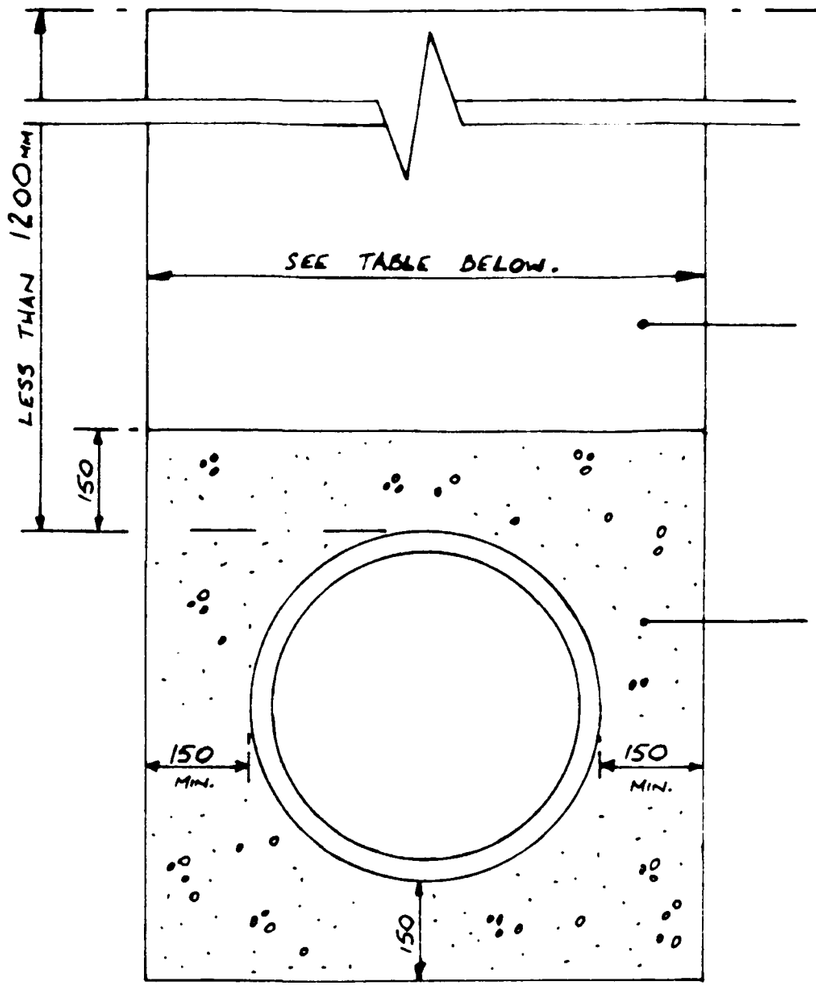
B. Amend position of units 40 and 41

C. Location of Chestnut Paling fence to protect T.P.O trees

PHASE III
FOXES LOWE ROAD
HOLBEACH

Dwg No 165/12/1a Scale 1:500 November 1992

Robert Doughty
CHARTERED TOWN PLANNER and LANDSCAPE ARCHITECT
32 High Street Helpringham Sleaford Lincs NG34 0RA
Telephone: Swaton (0529 21) 646/7



CARRIAGEWAYS, FOOTWAYS AND VEHICULAR CROSSINGS – SUB BASE AS L.C.C DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION 1991 Clause 10.1

ALL OTHER LOCATIONS TYPE "B" FILL AS W.A.A SPECIFICATION Clause 2.50.3.

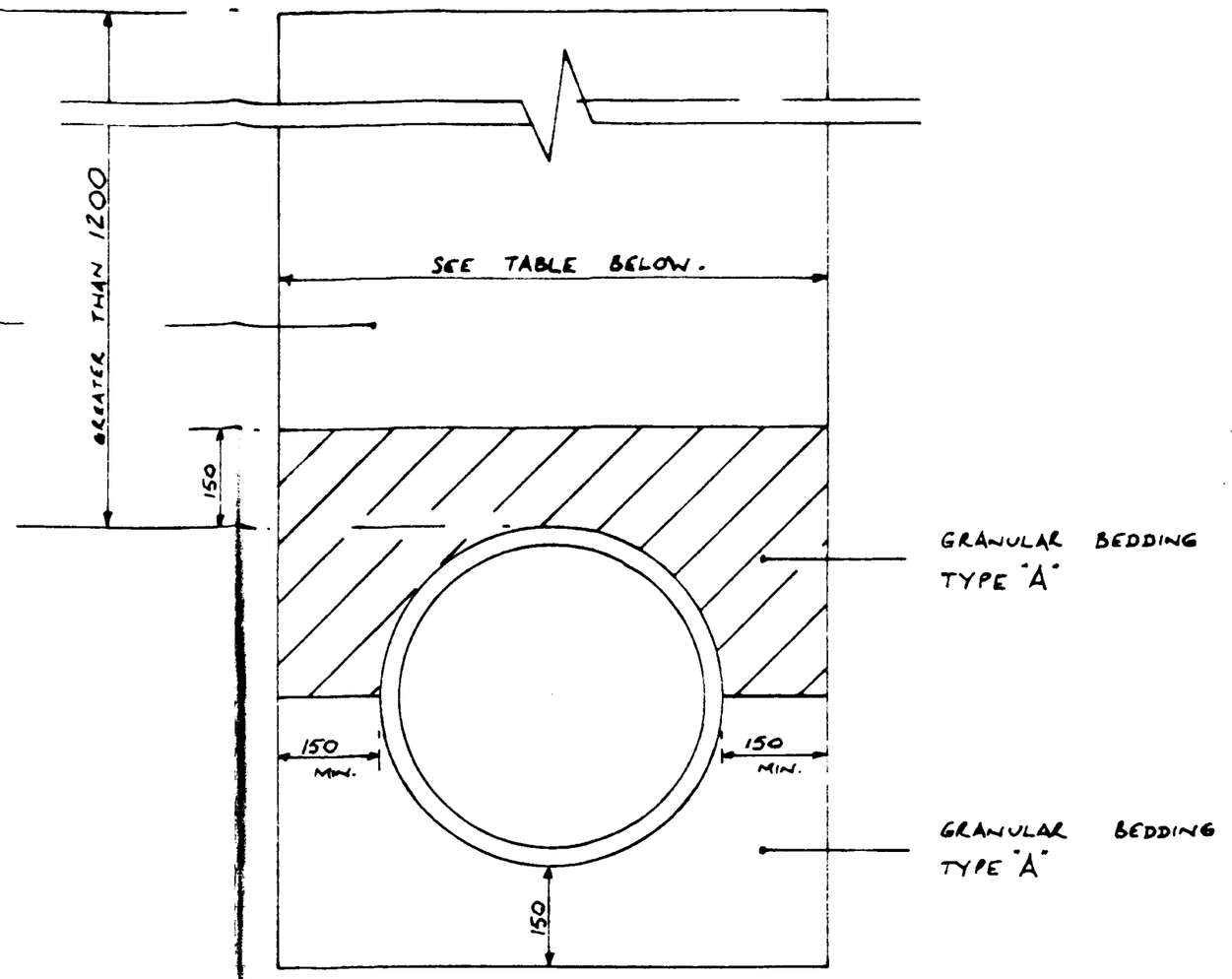
CONCRETE GRADE C20P WITH COMPRESSIBLE MOVEMENT JOINT AT EACH PIPE JOINT.

NOMINAL DIA. OF PIPE (mm.)	COMPRESSIBLE FILLER THICKNESS (mm.)
LESS THAN 450	18
450-1200	36

SINGLE TRENCH SEWER – CONCRETE SURROUND.

PIPE DIA. (mm.)	MAX. TRENCH WIDTH.
150	600
225	700
300	750
375	1050
450	1150
525	1200

TRENCH WIDTHS.



SINGLE TRENCH SEWER – GRANULAR BED & SURROUND.

PIPE MATERIALS.

100 & 150 DIAMETER – VITRIFIED CLAY. SUPERSLEVE.

225 DIAMETER – VITRIFIED CLAY. EXTRA STENGTH.

GRANULAR BEDDING – TYPE "A".

PIPE DIA. (mm.)	AGGREGATE SIZES.	
	SINGLE SIZE.	GRADED.
100	10 mm.	
150	10 or 14 mm.	14 to 5 mm.
225	10, 14 or 20 mm.	14 to 5 mm OR 20 to 5 mm.

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HIGHWAY DRAINAGE.

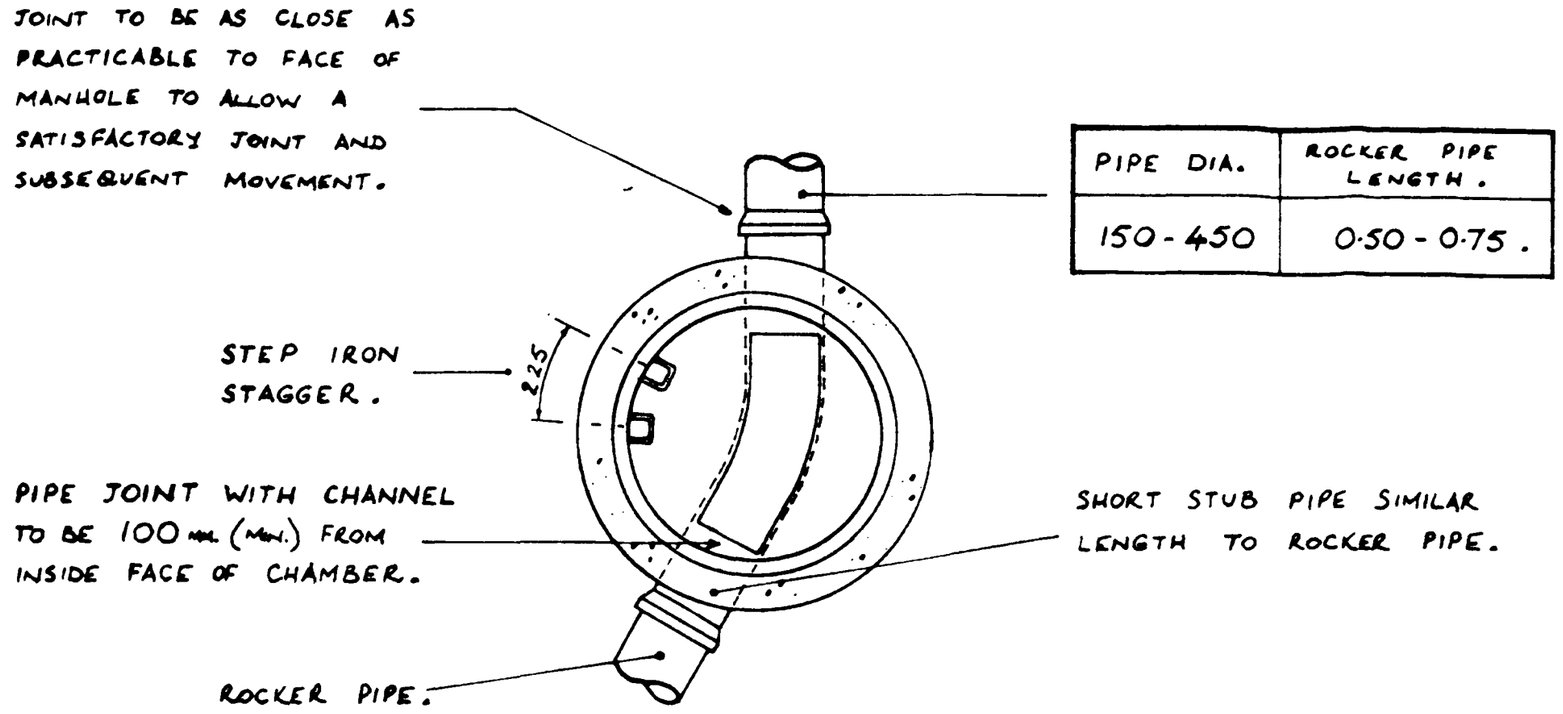
1. HIGHWAYS ACT – SECTION 38.
CONSTRUCTION TO BE IN ACCORDANCE WITH LINCOLNSHIRE COUNTY COUNCIL – DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION 1991.
2. WATER ACT – SECTION 104.
CONSTRUCTION TO BE IN ACCORDANCE WITH WATER AUTHORITIES ASSOCIATION SPECIFICATION – SEWERS FOR ADOPTION – 3rd EDITION.

TYPICAL DRAINAGE DETAILS.
RESIDENTIAL DEVELOPMENT –

SCALE – N.T.S.

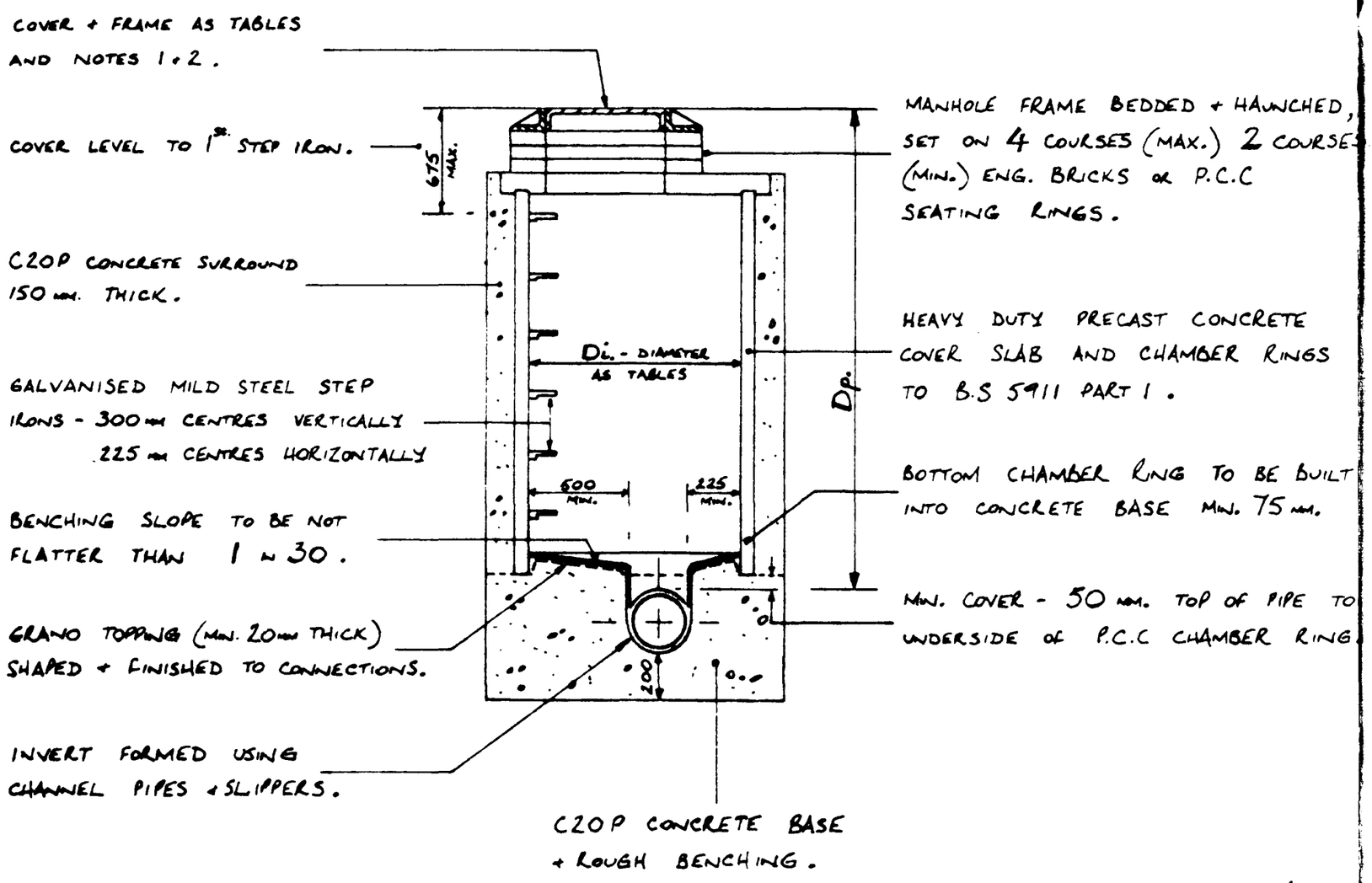
DRWN by R.A.BLAKEY. M.I.C.E 3.9.92.

165/10/RAB/5



PIPE DIA.	ROCKER PIPE LENGTH.
150 - 450	0.50 - 0.75.

PLAN ON MANHOLE BASE.



TYPICAL MANHOLE SECTION.

FOUL WATER SEWERS - WATER ACT SECTION 104.

TYPE 'F' MANHOLE.	
DEPTH OF SOFFIT - Dp < 1.00 m.	
PIPE DIAMETER	RING DIA. - Di
150	1050
225	1050
300	1050
MANHOLE COVER + FRAME - 750 x 750.	

TYPE 'E' MANHOLE.	
DEPTH OF SOFFIT - Dp 1.00 - 1.35 m.	
PIPE DIAMETER	RING DIA. - Di
150	1350
225	1350
300	1350
MANHOLE COVER + FRAME - 1200 x 675.	

TYPE 'B' MANHOLE.	
DEPTH OF SOFFIT - Dp 1.35 - 3.00 m.	
PIPE DIAMETER.	RING DIA. - Di
150 - 300 Dp - 1.35 to 1.500m.	1050
150 - 300 Dp - 1.50 to 3.00 m.	1200
MANHOLE COVER + FRAME - 600 x 600.	

HIGHWAY DRAINAGE - HIGHWAYS ACT SECTION 38.

L.C.C SURFACE WATER DRAINS.	
DEPTH OF SOFFIT - Dp up to 3.00 m.	
PIPE DIAMETER	RING DIA. - Di
150	1200
225	1200
300	1200
MANHOLE COVER + FRAME - 600 x 600.	

NOTES.

1. MANHOLE COVERS AND FRAMES IN CARRIAGEWAY, VEHICULAR CROSSINGS AND LAYBY'S SHALL BE GRADE "A", OTHERS IN FOOTWAY AND VERGES TO BE GRADE "B".
2. MANHOLES NOT FOR ADOPTION TO BE STANDARD P.C.C OR PLASTIC WITH LIGHT DUTY COVERS & FRAMES, IN DRIVEWAYS COVERS AND FRAMES TO BE CLASS "C".
3. MANHOLE CENTRE LINES WILL NOT NECESSARILY CO-INCIDE WITH MAIN DRAIN CENTRE LINE.
4. THE LOCATION OF THE MANHOLE COVER AND STEP IRONS TO BE DIRECTED ON SITE.
5. THE WIDTH OF BENCHING BELOW STEP IRON TO BE 500 mm MIN. AS SECTION.
6. JOINTS BETWEEN CHAMBER RINGS AND COVER SLABS TO BE BEDDED ON MORTAR.
7. CONSTRUCTION JOINTS IN THE CONCRETE SURROUND MUST STAGGER CHAMBER RING JOINTS BY A MIN. 150 mm.
8. BENCHING TO BE FORMED TO DIRECT FLOW FROM SIDE CONNECTIONS INTO MAIN FLOW.
9. EXCAVATIONS IN ADOPTED HIGHWAYS. HIGHWAY AUTHORITY ROAD OPENNING PERMIT MUST BE OBTAINED & COMPLIED WITH FULLY.
10. PUBLIC UTILITIES AND SERVICES. THE LOCATION OF ALL PUBLIC UTILITY MAINS, CABLES & SERVICE CONNECTIONS TO BE LOCATED BY HAND EXCAVATION & TRIAL HOLES FOLLOWING DISCUSSION WITH THE AUTHORITY INVOLVED.

13 JUN 1993
FILE 0574/93

DRAWING
17 JUN 1993
ISSUED

TYPICAL MANHOLE DETAILS.
RESIDENTIAL DEVELOPMENT

SCALE - N.T.S

DRWN. by R.A. BLAKEY M.I.C.E 7.9.92

165/10/RAB/6