

NO.: 91A/0757

CERTIFICATE NO.: 15028B

PROPOSAL: Change Base Type

LOCATION: 33 Odagh Cove, Scholarstown road,

APPLICANT: Geen Shanahan

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	REQ. FEE APPL.	AMT. OF REQ. FEE
A	Dwelling (Houses/Flats)	€ 255					
B	Domestic Exp. (Improvements/site.)	€ 200	[30]	[30]	—		
C	Building for office or other comm. purposes	€ 23.57 per sq. m. or 270					
D	Building or other structure for purposes of agriculture	€ 2.10 per sq. m. or 270					
E	Fuel Filling Station	€ 200					
F	Dev. of prop. not coming within any of the foregoing classes	270 or 20 per sq. m. whichever is the greater					



Column 1 Certified: Signed: _____ Grade: _____ Date: _____

Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____

Columns 2,3,4,5,6 & 7 Certified: Signed: M. O'Keefe Grade: CD Date: 17/5

Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

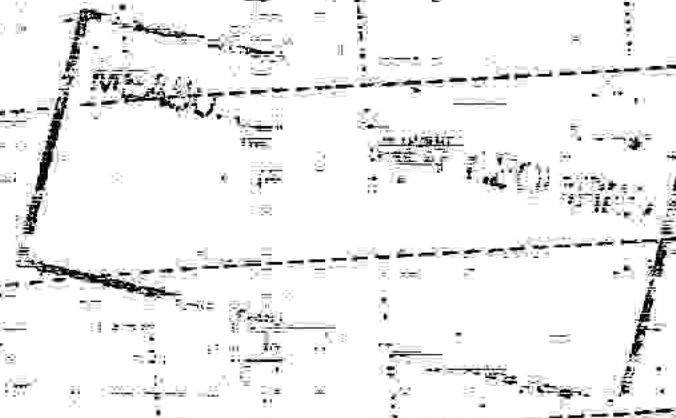
9/12/07

Charge Horse Type

33 Orlogh Crae, Shalastown road

Sean Sheehan

1	2	3	4	5	6	7
Dwellings/AREA LENGTH/STRUCT	RATE	AMT. OF FEE REQ.	AMOUNT LOANED	BALANCE DUE	BALANCE DUE	DATE/ RECEIPT
Dwellings	3552					
	1216	€16	€16	—		
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					
	0000 00 00 00 00					



Moller Grade: 1/2 Date: 9/5

Items 2, 3, 4, 5, 6 & 7 Certified Signed: _____ Grade: _____ Date: _____

Items 2, 3, 4, 5, 6 & 7 Endorsed Signed: _____

P/2980/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/0757

Date Received : 10th May 1991

Correspondence : Brian Donovan, Architect,
Name and : 16 Thorncliffe Park,
Address : Dublin 14.

Development : Change of house type

Location : Site 33 Orlagh Grove, Scholarstown Road

Applicant : S. Shanahan

App. Type : Permission

Zoning :

(MOS/BB)

Report of Dublin Planning Officer dated 24th June, 1991.

This application is for permission. The proposed development consists of a change of house type at site 33 Orlagh Grove, Scholarstown Road for S. Shanahan.

The planning history of the site is as follows:-

89A/24 - Permission granted on 13th June, 1990, for 143 houses on lands between Scholarstown Road, Stocking Lane and the proposed Southern Cross Motorway on a larger site which included the site of the current application.

91A/0057 - Permission granted for change of house type for 25 houses on previously approved site at Orlagh Grove, Rathfarnham between Scholarstown Road, Stocking Lane and proposed Southern Cross Motorway (Decision order P/1130/91 dated 20th March, 1991).

Under Reg. Ref. 91A/0057, house type B was approved on site no. 33. House type B was a detached four bedroomed house with garage attached at the side.

The house type proposed in this application is a larger house. Measuring 12.1 metres in width (compared to 10.6). It is proposed to alter the proposed house type by extending the master bedroom and converting the approved garage to a dining room.

The proposed house type is considered acceptable. Adequate private open space is provided for around the house in accordance with Development Plan Standards.

The proposed side elevation represents an improvement on the approved side

COPY
for 1220

CONTRIBUTION
Standard 112,200
Roads 850 per house
S. Servs 34,700
Open Space
Security 1000
CLIF 200,000
cash 125,000

for

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0757

Page No: 0002

Location: Site 33 Orlagh Grove, Scholarstown Road

elevation. The house was under construction at the time of my site inspection (26.06.1991).

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following () conditions:-

CONDITIONS / REASONS

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto.

REASON: To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That before development commences, approval under the Building Bye-Laws be obtained and all conditions of that approval be observed in the development.

REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

03 That the proposed house be used as a single dwelling unit.

REASON: To prevent unauthorised development.

04 The development shall be carried out in conformity with Condition Nos 4, 9 and 11-16 (inclusive) of the decision to grant permission by Order No. P/1130/91 dated 20.03.1991, Reg. Ref. 91A/0057 save as amended to conform with the revisions indicated in the plans lodged with the Dublin County Council in connection with this application.

04 REASON: In the interest of the proper planning and development of the area.

05 That arrangements made for the payment of the financial contribution in the sum of € 112,200. in respect of the overall development required by Condition No. 4 of planning permission granted under Reg. Ref. 89A/0024 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

06 That the arrangements made for the lodgement of security in the form of an approved Insurance Company Bond or Letter of Guarantee in the sum of € 200,000. or a cash lodgement of € 125,000

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0757

Page No: 0003

Location: Site 33 Orlagh Grove, Scholarstown Road

~~10~~ in respect of the overall development, required by Condition No. 5 of planning permission granted under Reg. Ref. 89A/0024 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

07 That arrangements made for the payment of the financial contribution in the sum of £ £21,250. i.e. £850. per house in respect of the overall development required by Condition No. 7 of planning permission granted under Reg. Ref. 91A/0057 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

08 That arrangements made for the payment of the financial contribution in the sum of ~~25,000~~

£ 25,000. i.e. £1000. per house in respect of the overall development required by Condition No. 8 of planning permission granted under Reg. Ref. 91A/0057 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

09 That arrangements made for the payment of the financial contribution in the sum of

£ 34,700. i.e. £2000. per acre in respect of the overall development required by Condition No. 30 of planning permission granted under Reg. Ref. 89A/0024 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

10 that roof tiles are to be of a MUTED DARK COLOUR
(eg. Black, Blue, Grey)

REASON: in THE INTEREST of VISUAL AMENITY

WCS

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg. Ref: 91A/0757

Page No: 0004

Location: Site 33 Orlagh Grove, Scholarstown Road

Endorsed: *P. Henry*
for Principal officer

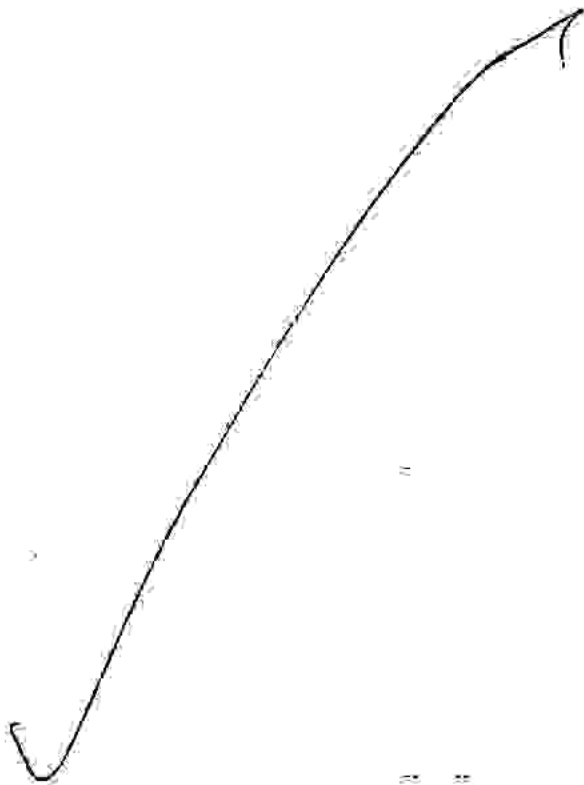
Richard Cramms SEP.
for Dublin Planning officer 27.6.91

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (10) conditions set out above is hereby made.

Dated : *3 July 1991* *[Signature]*

APPROVED OFFICER

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 19 June 1991.





Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

NOTIFICATION OF DECISION TO GRANT PERMISSION
LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS 1963-1990.

Decision Order Number : P/ 2980 /91 Date of Decision : 3rd July 1991

Register Reference : 91A/0757 Date Received : 10th May 1991

Applicant : S. Shanahan

Development : Change of house type

Location : Site 33 Orlagh Grove, Scholarstown Road

Time Extension(s) up to and including :

Additional Information Requested/Received : //

In pursuance of its functions under the above mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by Order dated as above make a decision to GRANT PERMISSION in respect of the above proposal.

Subject to the Conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- *10*...ATTACHED.

Signed on behalf of the Dublin County Council..... *[Signature]*.....
for Principal Officer

Date: *4/7/91*.....

Brian Donovan, Architect,
16 Thorncliffe Park,
Dublin 14.

NOTES

1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.

2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

An Bord Pleanala,
Blocks 6 and 7
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

3. An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.

(a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee of £100 (one hundred Pounds).

"Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward of services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.

(b) An appeal other than an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee of £50 (fifty pounds)

(c) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanala a fee of £50 (fifty pounds).

(d) A person who is not a party to an appeal must pay a fee of £15 (fifteen pounds) to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

4. If the Council makes a decision to grant permission/approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

5. Approval of the Council under the Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced.

Reg. Ref. 91A/0757
Decision Order No. P/ 2980 /91
Page No: 0002



Bloc 2, Ionad Bheatha na hEireann,
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Telephone. (01)724755
Fax. (01)724896

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04 REASON: In the interest of the proper planning and development of the area.

05 That arrangements made for the payment of the financial contribution in the sum of £ £112200. in respect of the overall development required by Condition No. 4 of planning permission granted under Reg. Ref. 89A/0024 be strictly adhered to in respect of the above proposal.

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06 That the arrangements made for the lodgement of security in the form of an approved Insurance Company Bond or Letter of Guarantee in the sum of £ £200000. or a cash lodgement of ^{£125,000}

~~£200000.~~ in respect of the overall development, required by Condition No. 5 of planning permission granted under Reg. Ref. 89A/0024 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

07 That arrangements made for the payment of the financial contribution in the sum of £ £21250. i.e. £850. per house in respect of the overall development required by Condition No. 7 of planning permission granted under Reg. Ref. 91A/0057 be strictly adhered to in respect of the above proposal.

REASON: In the interest of the proper planning and development of the area.

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Reg.Ref. 91A/0757

Decision Order No. P/ 2980 /91

Page No: 0003

- 08 That arrangements made for the payment of the financial contribution in the sum of £25,000, i.e. £1,000 per house in respect of the overall development required by condition no. 8 of planning permission granted under Reg. Ref. 91A-0057 be strictly adhered to in respect of the above proposal.
- 08 REASON: In the interest of the proper planning and development of the area.
- 09 That arrangements made for the payment of the financial contribution in the sum of £34,700, i.e. £2,000 per acre in respect of the overall development required by condition no. 30 of planning permission granted under Reg. Ref. 89A-0024 be strictly adhered to in respect of the above proposal.
- 09 REASON: In the interest of the proper planning and development of the area.
- 10 That roof tiles are to be of a muted dark colour (e.g. black, blue, grey).
REASON: In the interest of visual amenity.



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5. Approval of the Council under the Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced.

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.
Telephone: 773066



Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Register Reference : 91A/0757

Date : 13th May 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990

Dear Sir/Madam,

DEVELOPMENT : Change of house type
LOCATION : site 33 Orlagh Grove, Scholarstown Road
APPLICANT : S. Shanahan
APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to above, I acknowledge receipt of your application received on 10th May 1991.

Yours faithfully,

.....
PRINCIPAL OFFICER

Brian Donovan, Architect,
16 Thorncliffe Park,
Dublin 14.



PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.

1. Application for Permission Outline Permission Approval Place / in appropriate box.
 Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.

2. Postal address of site or building 33 ORLAGH GROVE
 (If none, give description sufficient to identify) SCHOLARSTOWN RD. RATHFARNHAM

3. Name of applicant (Principal not Agent) SEAN SHANAHAN

Address % ARCHITECT Tel. No. 979808

4. Name and address of person or firm responsible for preparation of drawings BRIAN DONOVAN ARCHITECT
16, Thorncliffe Park Dublin 14 Tel. No. 979808

5. Name and address to which notifications should be sent BRIAN DONOVAN ARCHITECT
16, THORNCLIFFE PARK DUBLIN 14

6. Brief description of proposed development CHANGE OF HOUSE TYPE

7. Method of drainage MAINS 8. Source of Water Supply MAINS

9. In the case of any building or buildings to be retained on site, please state:
 (a) Present use of each floor or use when last used N/A

(b) Proposed use of each floor N/A

10 Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? NO

11.(a) Area of Site 2450 Sq. m.

(b) Floor area of proposed development 160 Sq. m.

(c) Floor area of buildings proposed to be retained within site _____ Sq. m.

12.State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.) FREEHOLD

13.Are you now applying also for an approval under the Building Bye Law? Yes No Place in appropriate box.

CO. DUBLIN Permission sought for change of house type at Site 33 Orlagh Grove, Scholarstown Road, S. Shanahan.

14.Please state the extent to which the Draft Building Regulations have been complied with in your proposal:
INsofar AS BYE LAWS RELATE

15.List of documents enclosed with application.
4 COPIES OF DRWS., SPEC., NOTICE + FEE

16.Gross floor space of proposed development (See back) _____ EYE LAW APPLICATION
 No of dwellings proposed (if any) ONE Class(es) of Development _____
 Fee Payable £ _____ Basis of Calculation _____
 If a reduced fee is tendered details of previous relevant payment should be given

Full fee paid on recent permission for 25 houses
 Signature of Applicant (or his Agent) [Signature] Date 10-5-91

Application Type P/BBL FOR OFFICE USE ONLY 10/5

Register Reference 97A/0757

Amount Received £ _____
 Receipt No _____
 Date 22-14

FEE PAID: 16 £
 RECEIPT NO: N39245
 RECEIVED
 10 MAY 1991
 REG. SEC.

Irish Press
 10/5/91

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office, Sun Alliance House, Molesworth Street, Dublin 2.

1. Name and Address of applicant.
2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.
3. The page of a newspaper, circulating in the area in which the land or structure is situated, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.
 - (a) The address of the structure or the location of the land.
 - (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
 - (c) The name of the applicant.

NB. Applications must be received within 2 weeks from date of publication of the notice.
4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1:2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.
5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are.
 - (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.
 - (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.
 - (ii) A layout and a survey plan of each floor of any structure to which the application relates.
 - (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.
6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

SEPTIC TANK DRAINAGE: Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordance with I.I.R.S. S.R. 6:75.

INDUSTRIAL DEVELOPMENT:

The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act, 1977 in particular the licencing provisions of Sections 4 and 16.

PLANNING APPLICATIONS

BUILDING BYE-LAW APPLICATIONS

CLASS NO.	DESCRIPTION	FEE	CLASS NO.	DESCRIPTION	FEE
1.	Provision of dwelling — House/Flat.	£32.00 each	A	Dwelling (House/Flat)	£55.00 each
2.	Domestic extensions/other improvements.	£16.00	B	Domestic Extension (improvement/alteration)	£30.00 each
3.	Provision of agricultural buildings (See Regs.)	£40.00 minimum	C	Building — Office/Commercial Purposes	£3.50 per m ² (min. £70.00)
4.	Other buildings (i.e. offices, commercial, etc.)	£1.75 per sq. metre (Min. £40.00)	D	Agricultural Buildings/Structures	£1.00 per m ² in excess of 300 sq. metres (min. - £70.00) (Max. - £300.00)
5.	Use of land (Mining, deposit or waste)	£25.00 per 0.1 ha (Min £250.00)	E	Petrol Filling Station	£200.00
6.	Use of land (Camping, parking, storage)	£25.00 per 0.1 ha (Min. £40.00)	F	Development or Proposals not coming within any of the foregoing classes.	£9.00 per 0.1 ha (£70.00 min.)
7.	Provision of plant/machinery/tank or other structure for storage purposes.	£25.00 per 0.1 ha (Min. £100.00)			Min. Fee £30.00
8.	Petrol Filling Station.	£100.00			Max. Fee £20,000
9.	Advertising Structures.	£10.00 per m ² (min £40.00)			
10.	Electricity transmission lines.	£25.00 per 1,000m (Min. £40.00)			
11.	Any other development.	£5.00 per 0.1 ha (Min. £40.00)			

Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls.

For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.

COMHAIRLE CHONTAE ÁTHA CLIATH

PAID BY
CASH
CHECK
M.O.
B.L.
I.T.

DUBLIN COUNTY COUNCIL

46/49 UPPER O'CONNELL STREET, DUBLIN 1. BYE LAW APPLICATION

REC. No: N 39245

£30.00

10th

day of

May

1991

Received this

from Brian DONOVAN

16 Thorncliffe Park,

D.14

the sum of

thirty

Pounds

Pence, being

bye-law application of B Orlagh Grove

Moden Deane

Cashier

S. CAREY
Principal Officer

Class A x 1

Section 1 EXCAVATIONS AND SUB-STRUCTURES

- 1.1 Site**
The site shall be adequately drained and have no features likely to render the house unstable or uninhabitable.
- 1.2 Preparing Site**
Clear and grade site for new building and remove or divert existing drains as required. The entire site of buildings and paved areas shall be cleared of all vegetable soil to a depth of at least 150 mm. Where the bearing quality of the ground is suspect special care shall be taken in the design of the foundations.
- 1.3 Excavation**
- 1.3.1** The trenches shall be excavated to the depths and widths required to accommodate foundations or to such further depths or widths as may be necessary to ensure the stability of the structure. Trench bottoms and foundations shall be levelled off in horizontal benches. The bottom of trenches shall be not less than 450 mm below the finished ground level and kept clear of water before concreting.
- 1.3.2** Where other excavations close to or under the foundations are unavoidable care shall be taken to ensure the stability of the structure.
- 1.4 Foundations**
Shall be concrete mix A, to widths and depths indicated and reinforced as necessary. Where foundations are stepped they shall overlap at least 600 mm.
- 1.5 Floor Level**
The height of the finished floor over the highest point of the finished ground level shall be not less than 350 mm in the case of joisted floors and not less than 175 mm in the case of concrete floors. See also 2.24.
- 1.6 Rising Walls**
Rising walls shall be of solid blockwork bedded in cement mortar, or of mass concrete, mix A to widths and heights indicated. See also 2.4.
- 1.7 Cement and cement-based products**
Normal Portland cement used in concrete and other cement based products shall be certified by the Institute for Industrial Research and Standards under the Irish Standard Mark Licensing Scheme as complying with I.S.I.: 1963 "Portland cement", and shall bear the Irish Standard Mark.
- 1.8 Lime**
Hydrated lime to be to I.S.8.
- 1.9 Water**
Water shall be clean and free from harmful impurities.
- 1.10 Sand and Aggregates**
Fine aggregates shall be clean, sharp pit or river sand free from all impurities and in accordance with I.S. 5. Coarse aggregates shall be suitably graded hard clean pit gravel or crushed stone in accordance with I.S. 5 and to sizes set out below.



1.11 Concrete Mixes

Concretes Mix	Aggregates Maximum Size	Nominal Mix			28 day Strength (Newtons) Per mm ²
		Cement	Fine Aggregate	Graded Coarse Aggregate	
A	40 mm	1	3	6	14
B	20 mm	1	2	4	21
C	14 mm	1	3	6	—

The water-cement ratio shall be kept to the minimum needed to ensure reasonable workability, but should not exceed 35 litres per 50 Kg of cement.

- 1.12 **Cement Mortar**
Shall be 1 part cement to 3 parts sand.
- 1.13 **Lime Mortar**
Shall be 1 part hydrated lime to 6 parts sand.
- 1.14 **Gauged Mortar**
Shall be 10 parts lime mortar mixed with 1 part cement just before use.
- 1.15 **Strong Gauged Mortar**
Shall be 5 parts lime mortar mixed with 1 part cement immediately before use.
- 1.16 **Additives**
Plasticisers, waterproofers, sealers and bonding agents if used, shall be used in accordance with manufacturer's instructions.

Section 2 BLOCKLAYING AND CONCRETING

- 2.1 **Thermal Insulation**
Attention is drawn to the need to insulate walls, floors and roofs to meet the requirements set out in Section 14.
- 2.2 **Mixes**
See Section 1 for concrete and mortar.
- 2.3 **Blockwork**
Concrete blocks shall be in accordance with I.S. 20 and bricks, if clay, in accordance with I.S. 91. All blockwork and brickwork shall be properly coursed and bonded and bedded in gauged mortar. All walls shall be carried up regularly not leaving any part 1 m lower than another.
- 2.4 **Cavity Walls**
Walls shall be formed of two solid 112 mm leaves of blocks or bricks with 50 mm cavity between. Outer and inner leaves to be tied together by accepted wall ties, not less than four per square metre with extra ties at opes. Care to be taken that mortar dropping into the cavity or lying on ties, is cleaned out, through openings left for the purpose, head of cavities to be closed in the solid. All window, door and other opes in cavities to be sealed and so arranged as to prevent the passage of moisture. The cavity is to extend at least 150 mm below the level of the D.P.C. and shall provide for drainage of moisture to the outside, at the base.
- 2.5 **Hollow Block Walls**
225 mm hollow blocks shall be plastered externally. Bedding mortar shall be confined to abutting surfaces, and shall not enter the cavities of the block.
- 2.6 **Solid Block Walls**
225 mm solid concrete blocks shall be plastered externally.
- 2.7 **Solid Brick Walls**
Solid brick walls shall be 337 mm thick, and weather-pointed.
- 2.8 **Masonry Walls**
Masonry walling, where used, must not be less than 500 mm thick.
- 2.9.1 **Facings**
Where stone or other decorative external facing is used, care must be taken to ensure adequate structural stability, thermal insulation and absence of damp penetration.
- 2.9.2 **Opes in External Walls**
Where any duct, pipe, etc., is required to penetrate through an external wall it shall be so arranged as to prevent the passage of moisture inwards.

- 2.10 Pointing**
All wall faces finished without plastering shall be pointed in the building mortar as the work proceeds, or the joints may be taken out 20 mm deep and pointed in cement mortar.
- 1.11 Party Walls**
All party walls shall be 225 mm solid blockwork of density not less than 1,500 kg/m³, plastered both sides and carried up in the solid to the plane of the upper surface of the rafters. See also 5.7.
- 2.12 Solid Partition**
Solid partitions shall be 112 mm thick brick or block work, laid to break joint, in gauged mortar, bonded 112 mm at junctions.
- 2.13 D.P.C.**
The damp-proof courses shall be polythene in accordance with B.S. 743 or bitumen sheeting on hessian or canvas base in accordance with I.S. 57 laid to prevent the passage of moisture and lapped adequately at joints, all as described below.
- 2.13.1** In all ground floor walls and breasts to full width and stepped as necessary, in cavity walls in both outer and inner leaves separately, and shall be laid not less than 150 mm over finished ground level or paved area or highest ground within one metre of house.
- 2.13.2** At sides of opes in cavity walls and over all opes 250 mm longer than opes and stepped down and outward all to prevent passage of moisture from outer to inner leaf.
- 2.13.3** Under the turned up at ends and back of all cills and external room ventilation grids and recessed edges of all concrete roof slabs.
- 2.13.4** In all chimney stacks immediately above the level of the flashing and under all cappings and copings.
- 2.13.5** Under lowest ground floor timbers and not lower than wall D.P.C.
- 2.13.6** Where the waterproofing membrane in a concrete floor is not level with the wall D.P.C. care shall be taken to ensure continuity of damp proofing by stepping, turning up and lapping as necessary.
- 2.14 Concrete Under Barges**
Concrete barges, if used, shall be under slates or tiles, full width of walls and at least 75 mm thick and projecting 100 mm beyond the face of the wall, throated on the underside, suitably reinforced and tied back as necessary. See also 5.7.
- 2.15 Concrete Copings**
Concrete copings in lengths of not more than 1 metre, shall be weathered and throated, bedded in gauged mortar on D.P.C. and pointed in cement mortar.
- 2.16 Lintels**
Concrete lintels mix B cast in situ shall be 225 mm deep with 225 mm bearing at each side of the ope, and shall be reinforced for full length with one 10 mm mild steel for every foot of span. Bars are to be placed 25 mm from bottom of lintel. Lintels for opes greater than 2.5 m shall be specially designed. precast concrete lintels to be as above and in addition to have 2 No. 10 mm mild steel bars at the top with 25 mm cover and to be clearly marked for correct placing. Accepted patent or proprietary lintels to B.S. 1239 to be used in accordance with manufacturer's instructions.
- 2.17 Window Cills**
Concrete window cills shall be to I.S. 89, 65 mm thick on front face, 120 mm thick at back, and 225 mm wider than ope; reinforced adequately, seated, rebated, weathered and throated and set in gauged mortar on D.P.C. as previously specified. Care to be taken that the throating is clear of the finished wall face.
- 2.18 Reinforced Concrete Annexe Roofs**
2.18.1 Concrete roofs, mix B shall be 40 mm thick for each metre of span, with minimum thickness of 100 mm, fine screeded and laid to falls. Where roof is recessed into a wall, form 150 mm upstand on D.P.C. properly flashed over. The roof shall be projected 150 mm and throated at verges, with a raised fillet as necessary to prevent overspill of surface water.

Insulate underside of roof. Waterproofing additives or sealants, if used, shall be applied in accordance with manufacturer's instructions.

2.18.2 Concrete roofs shall be reinforced adequately. For example, an area 5 m x 3 m should have 12 mm mild steel bars at 150 mm centres across the short span and 6 mm bars at 300 mm centres on the 5 m span. Steel to be placed 25 mm above underside of slab and carried over bearing walls to within 25 mm of edge of slab. Reinforcing bars should not normally be lapped, but where unavoidable, the lap shall be not less than 500 mm.

2.18.3 Proprietary steel reinforcing mesh may also be used, in accordance with manufacturer's instructions.

2.19 Chimney Breasts and Stacks

2.19.1 Chimney breasts shall be built of solid concrete blocks or decorative blocks or bricks or stone, all to a thickness of not less than 112 mm bedded in gauged mortar with splayed R.C. lintel over fire ope. Each fireplace recess shall have 200 mm solid incombustible material to sides and back excluding any fireback, carried up to full height of recess. Each fireplace shall have an independent flue, separated by not less than 100 mm of solid incombustible material (excluding the thickness of any flue liner) from any other flue. Each flue shall be lined with fireclay liners to I.S. 51 not less than 200 mm internal diameter, backed with weak mortar and carried 150 mm above capping. Splayed liners shall be used in forming bends to flues. Chimney stacks over roof shall be built of 112 mm solid concrete blocks bedded in gauged mortar and plastered or, where special precautions are taken, of decorative blocks, bricks or natural stone. Due to the exceptional exposure of stacks the use of decorative blocks, bricks or natural stone in stacks may cause dampness. Special care in construction and in the design and placing of the D.P.C. is necessary.

2.19.2 Capping to stack shall be of reinforced concrete, mix C, weathered and throated, not less than 75 mm thick at edge and flanching up around pots. Top of stack, excluding chimney pots, to be 600 mm over ridge where stack is within 600 mm of the ridge.

2.19.3 Care should be taken that construction and height of stack is such as to ensure adequate structural stability and satisfactory drawing of smoke.

2.20 Fireplaces, Heating Units, Cookers

Fireplaces to have a fireclay back and incombustible surround and to be properly gathered into flue. Enclosed cookers and heating units to be fitted to manufacturer's instructions, with incombustible flue, ventilated as necessary and shall stand on a concrete hearth projecting 150 mm from face of appliance all round.

2.21 Hearths

First floor hearths shall be 125 mm thick reinforced concrete, mix B, finished fine carried on suitable formwork on 44 mm x 22 mm battens spiked to floor joists.
Ground floor hearths shall be 125 mm, finished fine, on hardcore as necessary.
All hearths to be 150 mm wider than fire ope on each side and to project 500 mm from face of breast.

2.22 Paved Yard

Provide 10 m² of impervious paved area laid to falls on suitably prepared base and adjacent to back door e.g. 100 mm concrete, 50 mm tarmacadam or 50 mm paving slabs.

2.23 Concrete Floors

All concrete ground floors shall be laid on a bed of clean hardcore not less than 150 mm thick and well consolidated. Soft material shall not be used in making up level under floors. Concrete ground floor shall be 150 mm thick mix B finished fine, laid on a continuous damp proof membrane on a layer of fine sand and turned up at edges of slab as necessary to meet and seal with wall D.P.C. Polythene sheeting where used shall be not less than 1000 gauge.

2.24 Sub Floors

Concrete sub-floors to joisted timber floors shall be laid on 100 mm of hardcore as described in 2.23. Concrete shall be mix A, 100 mm thick, and finished to a level not lower than the highest adjoining ground.

- 2.25 Dwarf Walls**
Dwarf walls 112 mm thick concrete block or brick, honeycombed for through ventilation shall be built on sub-floors, at centres not greater than 2 metres.
- 2.26 Suspended Concrete Floors**
Where concrete suspended floors or stair landings or balconies are used, they should be finished fine and capable of carrying a superimposed load of 1.44 KN/m². Exposed soffits shall be insulated where necessary.
- 2.27 Screen and Garden Walls**
Screen or garden walls shall not abut main walls of house.

Section 3 CARPENTRY AND JOINERY

- 3.1 Timber**
Timber shall be sound, free from disease and infestation and large loose knots or waney edges, with a moisture content within the limits set out in I.S. 96. Timber for carpentry to be white deal. Timber for joinery to be red deal, hard wood or other timber suitable for the purpose and free from all defects.
- 3.2 Preservative**
Soft wood used externally, to be pressure impregnated with coloured preservative. Softwoods in contact with concrete to be treated with coloured preservative. Frames, barge-boards, fascias to be primed before fixing.
- 3.3 Roof Timbers**
- 3.3.1** Wall plates 75 mm x 100 mm fully treated with preservative, halved and spiked at headings and angles, set level and bolted down at 1 m intervals.
- 3.3.2** Rafters 35 mm x 115 mm minimum at 400 mm centres, treated at feet with preservative, and cut to angles, checked and twice spiked to wall plates, properly aligned to back and spiked to ridge and purlin.
- 3.3.3** Trimming rafters 44 mm thick around roof light and dormer opens and around chimney shafts and 50 mm clear of shaft.
- 3.3.4** Hip and valley rafters 44 mm x 225 mm treated at feet with preservative and fixed as for rafters above.
- 3.3.5** Valley and gutter boards 22 mm x 225 mm wrot, to take gutter, treated with preservative and secured to rafters.
- 3.3.6** Ridge board 32 mm x 175 mm set level, kept 50 mm clear of chimney shaft.
- 3.3.7** Purlins 75 mm x 175 mm adequately supported at intervals of approximately 2 m. Joints, where necessary, shall be half lapped over a support.
- 3.3.8** Struts 75 mm x 100 mm properly supporting purlins from solid bearing, or from spreaders not more than 500 mm from load bearing partitions. Where such bearing support cannot be provided, suitably trussed rafters or purlins shall be used to ensure stability.
- 3.3.9** Spreaders and thrust pieces 44 mm x 115 mm under struts, spiked to ceiling joists to distribute load.
- 3.3.10** Collar ties 35 mm x 115 mm to every rafter. Where purlins are provided, fix collars to every fourth rafter. All collars to be twice spiked to rafters.
- 3.3.11** Hangers and runners 35 mm x 75 mm where necessary to support ceiling joists.

- 3.3.12 Soffit bearers 35 mm x 75 mm to every rafter, treated with preservative.
- 3.3.13 Soffit at least 200 mm wide 16 mm wrot softwood, pressure impregnated or other material suitable for external use and secured to bearers.
- 3.3.14 Fascia 32 mm x 175 mm wrot deal, well secured to roof timbers and pressure treated.
- 3.3.15 Ceiling joists 35 mm x 115 mm at 400 centres, cut to angles and twice spiked to rafters. Where not in one length, form 500 mm securely spiked lap over partition walls.
- 3.4 **Roof Trusses**
Roof trusses to I.S. 193 (P), adequately braced diagonally, may be used at centres not greater than 600 mm. See also 5.2.
- 3.5 **Floor Joists**
- 3.5.1 First floor joists 35 mm x 175 mm at 350 mm centres for spans up to 3 m, 35 mm x 225 mm at 350 mm centres for spans up to 5 m. All to have one row 35 mm x 44 mm herring-bone bridging or 35 mm x depth of joist solid bridging. Joist to be doubled where carrying partition.
- 3.5.2 Trimmers and trimming joists 75 mm thick x depth of joist to opes and chimney breasts and kept 50 mm clear of breasts. Trimming and trimmed joists to be supported by approved fittings or to be checked on to battens spiked to supporting joist.
- 3.5.3 Ground floor joists 35 mm x 115 mm at 350 mm centres, to be spiked to wall plates (tassels). Trimming timbers to be 44 mm thick x depth of joist.
- 3.5.4 Ground floor tassels 44 mm x 75 mm treated with preservative set level and bearing solidly on D.P.C.
- 3.6 **Ventilation**
Provide through ventilation under timber ground floors by means of 225 mm x 150 mm metal or concrete louvred ventilators in external walls. Sealed ducts to be formed through cavities in external walls. Openings to be left in tassel walls and in rising walls of partitions and piped ducts to be formed under intervening concrete floors to ensure through ventilation. Space from surface of sub-floor to underside of bottom of ground floor joists to be not less than 125 mm.
- 3.7 **Flooring**
- 3.7.1 Remove all debris from sub-floors before flooring. Flooring 22 mm T & G well cramped, twice nailed with 60 mm cut brads, in narrow widths to minimise the effects of cupping and shrinkage or 18 mm flooring grade chipboard, density 700 kg/m³ on joists at 400 mm centres with 44 mm x 44 mm noggins to support cross joints. Long joints shall be made along the centre of a joist. Adjacent sheets shall have an expansion gap of 3 mm between them, with 20 mm gap between edges of sheet and adjoining walls, the edges being treated with fungicide. Sheets should be fixed at 300 mm centres and not nearer than 12 mm to edge of sheet. Exposed chipboard floor surfaces to be sealed with resinous sealer.
- 3.7.2 Suspended floors. Where soffit of suspended floor is exposed externally insulate as necessary and sheet with material suitable for external use and having half hour minimum fire rating.
- 3.8 **Grounds**
Pretreated timber grounds shall be securely built in, to provide means of fixing frames and trimmings.
- 3.9 **Stud Partitions**
Studs, head and sole pieces, and bridging 35 mm x 75 mm. Studs at 350 mm to 400 mm centres. Sole piece to be well spiked to floor and if parallel to joists, shall be carried on doubled joist. Provide 2 No. rows of noggings. Where a partition is load bearing increase timber sections as required. For finish see 6.6.
- 3.10 **Proprietary Partitions**
Accepted proprietary partitions, erected to manufacturer's instructions, may be used.

Section 5 ROOFING

5.1 Sarking Felt

Untearable sarking felt to I.S. 36 shall be laid under all slates and tiles, lapped horizontally not less than 75 mm for pitches greater than 25° and 150 mm for lesser pitches, carried down into eave gutters. Side lap shall not be less than 150 mm for pitches over 25° and 500 mm for lesser pitches. Felt to be carried fully over ridge board.

5.2 Laths or Battens

Laths or battens shall be 44 mm for rafter spacings not greater than 400 mm. For spacing up to 600 mm battens not less than 44 mm x 44 mm shall be used. Tilting fillet to be provided at eaves where necessary.

5.3 Quarry Slates

Quarry slates shall be laid to a minimum pitch of 30°, lap 100 mm fixed with 2 No. 10 gauge galvanised slating nails double course at eaves, and slate and a half at verges, with slate slip under.

5.4 Asbestos Cement Slates

Asbestos cement slates shall be to I.S.7. The normal pitch for asbestos cement slates shall be 30°, lap 100 mm. Each slate shall be fixed with 2 No. 10 gauge 35 mm galvanised nails and copper crampion at bottom. Provide double course at ridge and treble course at eaves.

Asbestos cement slates may be laid at a pitch lower than 30° in special circumstances.

5.5 Concrete Roofing Tiles (normal pitch — 30° and over)

Concrete roofing tiles (normal pitch) shall be to I.S.3 laid to a pitch of not less than 30°. Every tile in every alternative course to be fixed with 1 No. 50 mm 10 gauge galvanised nail. Lap 75 mm clear of nail hole. Pantiles shall be closed at eaves with a course of plain tiles or slate underclock and suitably coloured sand/cement pointing. Alternatively patent eave closer and filler clip may be used.

5.6 Concrete Tiles (low pitch — under 30°)

Low pitch concrete tiles shall be laid in accordance with manufacturers instructions and to the minimum pitches accepted by the Department which may not be as low as those recommended by the manufacturers.

5.7 General

Slates and tiles to be neatly trimmed where necessary. Part tiles and slates to be adequately secured.

Drip overhang to be provided at eave and valley gutters.

At verges slates or tiles shall oversail wall face or barge, by at least 25 mm in the case of slates and 50 mm in the case of tiles, and shall be neatly pointed in suitably coloured sand/cement mortar.

Ridge and hip tiles shall be bedded in gauged mortar and pointed with cement mortar, suitably coloured; bedding and pointing to be done in one operation.

Provide suitable hip hooks, screwed to end of hip rafters. In industrial atmospheres special nails may be necessary. Over party walls the space between battens shall be filled with mortar to complete fire stop.

5.8 Flashings

Valley gutters, cover flashings and flashings to chimneys shall be

- (1) No. 5 lead to B.S. 1178
- (2) 22:24 gauge medium hard copper
- (3) 20 gauge super-purity aluminium. (18 gauge to valleys and parapet gutters).
- (4) accepted proprietary systems.

- 6.5 Internal Plastering**
Scud walls and plaster one coat 12mm thick, 1 cement: 1 lime: 6 sand. Finish with neat gypsum plaster skim, or a grey coat of gauged mortar applied with wood float. Alternatively proprietary finishes may be used to manufacturers instructions.
- 6.6 Stud Partitions and Ceilings**
- 6.6.1** Stud partitions and ceilings to be covered with 10mm plaster boards or slabs with skimmed plaster finish or alternatively 12mm patent plaster sheets, all erected, jointed and finished to manufacturers instructions.
- 6.6.2** All wall plastering should be carried behind skirtings and architraves.
All internal wall and ceiling finishes, including decorative finishes, shall comply with the relevant local fire requirements.
- 6.7 General**
Precautions shall be taken to protect floors and surrounding work during plastering. Make good neatly to holds for pipework etc.
- Plasticisers, water proofers, sealers, and bonding agents shall be used in accordance with manufacturers instructions.

Section 7 PLUMBING

- 7.1 Service Pipe**
Incoming service pipe to be 15mm diameter laid in trench 600mm deep, or otherwise suitably protected against frost, and connected to internal stopcock.
- 7.2 Cold Water Supply**
From stopcock take 15mm cold supply direct to sink with branch to high pressure ball valve in service tank, capacity 225 litres, for 3 bedroom houses or 360 litres for 4 or more bedrooms or as required by local authority. Tank to be covered and adequately supported over a partition where possible and at such height as to ensure proper working of the system. Provide 22mm overflow from tank to discharge externally. Connect to service tank 50mm over bottom of tank and take 22mm feed to 150 litre hot water cylinder to IS 161 with 22mm branch over top of cylinder to bath and 15mm connections off wash hand basin and W.C.
- 7.3 Hot Water Supply**
An adequate water heating apparatus must be provided and fitted in accordance with manufacturers instructions. Flow and return pipes, where appropriate, shall be as recommended by the manufacturer of the heating apparatus. A 22mm copper or stainless steel expansion pipe to be taken from top of cylinder to discharge over service tank, with a 22mm do. branch to bath and 15mm connections off for wash hand basin, sink etc.
- 7.4 General**
- 7.4.1** Fit full way stopcock on cold feeds from service tank and fit draw off cock at lowest convenient point of system. On no account should a stop-cock be fitted on an expansion pipe.
- 7.4.2** Copper tubes shall be certified as complying with Irish Standard Specification I.S. 238 — 1980 in accordance with the Irish Standard Mark Licensing Scheme of the Institute for Industrial Research and Standards and shall bear the Irish Standard Mark.

- 7.4.3 Plastic pipes to I.S. 123, 134, or 135 where used shall be fixed at least 75mm clear of hot pipe runs. Pipes shall be fixed in straight lines as far as possible, properly jointed with patent fittings and adequately supported and secured with proper pipe clips.
- 7.4.4 Storage tanks and pipes to be insulated against frost where necessary.
- 7.4.5 Where other domestic water heating systems are used they shall be competently designed and installed.
- 7.4.6 **Compression tube fittings of copper alloy**
Compression tube fittings of copper and copper alloy shall be certified by the Institute for Industrial Research and Standards under the Irish Standard Mark Licensing Scheme as complying with I.S. 239: 1980 "Compression tube fittings of copper and copper alloy", and shall bear the Irish Standard Mark.
- 7.5 **Sink**
Provide and fit in kitchen or scullery stainless steel sink and drainer to I.S. 132 suitably supported, or alternatively white glazed fireclay sink 600mm x 400mm x 250mm supported on 2 No. iron or steel brackets and fitted with suitable drainer. Sink to be provided with adequate overflow. Top of sink to be not less than 850mm over floor level. Form enclosed press, with raised floor and recessed plinth under sink and drainer.
- 7.6 **Bath and Wash Hand Basin**
Fit where indicated a bath in vitreous enamelled cast iron or other accepted material, minimum length 1700mm nominal and panelled as necessary and vitreous china wash hand basin 550mm x 400mm suitably supported and secured with not less than 150mm clearance to sides. Both to be provided with adequate overflow.
- 7.7 **Plugs, Traps, Wastes and Taps**
15mm hot and cold chrome plated brass taps to be fitted to sink and wash hand basin, and 22mm do. to bath. Provide 42mm waste fitting to bath and sink and 35mm to wash hand basin. All complete with plug and chain. Fit S or P trap, complete with cleaning eye and copper, lead or acceptable plastic waste pipe adequately secured and fitted with cleaning eyes as necessary and discharging approximately 50mm over gully trap.
- 7.8 **W.C. Suite**
Provide and fit where indicated W.C. suite, with cistern, to I.S.70, all fully supported and secured. Connect to soil pipe with proprietary flexible coupling or other acceptable joint. Cistern to be provided with adequate overflow.
- 7.9 Pipes shall not be jointed within the thickness of a wall.

Section 8 DRAINAGE

- 8.1 **Trenches**
Trenches shall be excavated to the necessary depths, widths and falls to allow the drains to be properly laid. The water service shall be in a separate trench from the drain. See also 1.3.2.
- 8.2 **Drain**
The main and branch drains shall be 100mm diameter laid to continuous falls of not less than 1 in 60 or not more than 1 in 30, with bends and junctions, splayed in the direction of flow, where required, and laid in straight lines from manhole to manhole. The drain shall be P.V.C., cast iron, impermeable glazed ware with flexible joints or concrete with flexible joints, all laid, jointed and back filled to manufacturers instructions or shall be socketed impermeable glazed ware or concrete supported on continuous concrete bed mix B 100mm thick x 300mm wide for full length of each pipe and haunched half way up the pipe after testing and shall be jointed in cement mortar, well worked in against 2 rings of tarred gaskin and finished with a neatly worked fillet. Clean pipe internally as necessary after each joint is made.

- 8.3 Back Filling**
Immediately over pipes back fill in fine material and fill remainder of trench in selected excavated material, well rammed and remove surplus spoil.
- 8.4 Drains under Roads and Buildings**
Where drains pass under roadways or are likely to be subjected to heavy traffic, they should be fully encased in 150mm concrete, mix B. Drains shall not be taken under any buildings unnecessarily, but where this is unavoidable pipes shall be cast iron, or encased in 150mm of concrete mix B or otherwise to local authority requirements and laid in straight lines. Form ducts through rising walls or foundations as necessary to avoid damage to drains.
- 8.5 A.J.s, Manholes, Drop-Manholes**
Armstrong junctions or manholes as suitable shall be provided at each change in direction or gradient of drain and at septic tank and of such dimensions and spacing as to permit easy cleaning of the system. Manholes shall be built in 225mm concrete walls on 150mm thick concrete floor mix B, with glazed channels, bends and branches, suitably benched. Benching and internal walls to be finished smooth in cement mortar. Fit cast iron, reinforced concrete, or hot dipped galvanised steel frame and cover. Covers to have provision for lifting. Where required by local authority, outfall manholes shall be formed, with interceptor trap, stoppered cleaning eye and air inlet.
- 8.6 Gullies and A.J.s**
Gullies and Armstrong junctions to be set level, supported on 150mm concrete bed, mix B, and connected to drain as previously specified. Armstrong junctions shall have frame and cover of cast iron, aluminium or galvanised steel.
- 8.7 Gully Traps**
Gully traps shall be set in dished concrete surround, to take wastes from bath, sink and wash hand basin and discharge from rain water pipes, and shall be fitted with cast iron, aluminium, or other suitable grid.
- 8.8 Soak Pits**
Where sewage disposal is to be a septic tank, rain water shall be piped to a separate soak pit, not less than 6m from the house or to a suitable watercourse.
- 8.9 Septic Tank**
Septic tank, where provided, shall be located so as not to endanger any well or other source of water supply and shall be in accordance with S.R.6 1975.
Septic tanks to accepted prefabricated systems may also be used.
- 8.10 Vent Shaft**
At head of drain, carry up 50mm minimum diameter vent pipe over eave level or to 1m over head of highest window within 4m of vent, secured with proper brackets and fitted with cowl or cage.
- 8.11 Single Stack Drainage**
Single stack drainage, where provided, must be in accordance with British Standard Code of Practice No. 304 (1968).
- 8.12 Testing**
Test plumbing and drainage on completion to ensure watertightness and efficient working of the system, and as may be required by the local authority. See also 8.2.

Section 14 THERMAL INSULATION

14.1 Insulation must be in accordance with the maximum U-Value laid down by the Department viz., a general whole building standard not exceeding $0.85 \text{ W/m}^2\text{°C}$ and elemental values as follows:

External Walls	0.60 watts per square metre per degree celsius.
Roofs	0.40 watts per square metre per degree celsius.
Ground Floors	0.60 watts per square metre per degree celsius.
External parts of intermediate floors	0.60 watts per square metre per degree celsius.

U-values will be required to be calculated in accordance with the method for calculating standard U-values set out in Section A 3 of the C.I.B.S. Guide Book A 1980 published by the Chartered Institution of Building Services.

14.2 Mineral fibre mats for thermal insulation of buildings

Mineral fibre mats for thermal insulation of buildings shall be certified by the Institute for Industrial Research and Standards under the Irish Standard Mark Licensing Scheme as complying with I.S.250: 1984 "Mineral fibre mats for thermal insulation of buildings", and shall bear the Irish Standard Mark.

METRIC CONVERSION

25mm	=	1 inch(es) approx.
50mm	=	2 inch(es) approx.
100mm	=	4 inch(es) approx.
300mm	=	12 inch(es) approx.
600mm	=	24 inch(es) approx.
1.00m	=	39.37 inches approx.
1 litre	=	0.22 gallons
1 Kilogram	=	2.20 lbs.