

REF. NO.: 91A/1442 CERTIFICATE NO.: 162503
 PROPOSAL: Enlarge ~~at~~ canopy adjacent to Warehouse
 LOCATION: Curton Road, Greenhills Rd, Tallaght
 APPLICANT: Packard Electric Ltd

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
B	Domestic Ext. (Improvement/Alts.)	@ £30					
C	Building for office or other comm. purpose <u>128.0m²</u>	@ £3.50 per M ² or £70	<u>448</u>	<u>448</u>			
D	Building or other structure for purposes of agriculture	@ £1.00 per M ² in excess of 300 M ² Min. £70					
E	Petrol Filling Station	@ £200					
F	Dev. of prop. not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater					

Column 1 Certified: Signed: [Signature] Grade: D/TE Date: 15/9/91
 Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____
 Columns 2,3,4,5,6 & 7 Certified: Signed: [Signature] Grade: S.O Date: 9/9/91
 Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

PLANNING APPLICATION FEES

Reg. Ref. 9/A/1442 Cert. No. 26536
 PROPOSAL Enclose canopy adjacent to Warehouse
 LOCATION Clifton Road, Greenhills Road, Tallaght
 APPLICANT Parade Electric Ltd.

CLASS	DWELLINGS/AREA LENGTH/STRUCT.	RATE	AMT. OF FEE REC.	AMOUNT LODGED	BALANCE DUE	BALANCE PAID
1	Dwellings	@£32				
2	Domestic	@£16				
3	Agriculture	@50p per m2 in excess of 300m2. Min. £40				
4	Metres <u>128m</u>	@£1.75 per m2 or £40	<u>224</u>	<u>224</u>		
5	x .1 hect.	@£25 per .1 hect. or £250				
6	x .1 hect.	@£25 per .1 hect. or £40				
7	x .1 hect.	@£25 per .1 hect. or £100				
8		@£100				
9	x metres	@£10 per m2 or £40				
10	x 1,000m	@£25 per £1000m or £40				
11	x .1 hect.	@£5 per .1 hect. or £40				

Column 1 Certified: Signed: [Signature] Grade D/E Date 10/9/91
 Column 1 Endorsed: Signed: Grade Date
 Columns 2,3,4,5,6 & 7 Certified: Signed: [Signature] Grade S.O Date 9/9/91
 Columns 2,3,4,5,6 & 7 Endorsed: Signed: Grade Date

ASSESSMENT OF FINANCIAL CONTRIBUTION

EG. REF.: *91K/1442*

DT. REF.:

SERVICES INVOLVED: WATER, FOGG, SEWER, SURFACE WATER

REA. OF SITE:

TOTAL AREA OF PROPOSED PROPOSAL: *1378* ^{sq ft}

INSURED BY:

J. S.

10/9/91.

CHECKED BY:

GRADE OF ASSESSMENT:

TOTAL ASSESSMENT:

ASSESSOR'S OFFICE NO: P
DATE

ENTERED IN CONTRIBUTIONS REGISTER

Standard

no addn


amounts

DEVELOPMENT CONTROL ASSISTANT GRADE

[Signature]

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

M
 No add'l
 cons. in
 - Storage
 purposes - no
 issue!


Proposed to enclose part of existing cantilevered canopy for storage purposes at west side of existing factory at Pirton Road/Greenhills Road, Tallaght for Packard Electric Ltd.

Keane Murphy Duff Architect,
4, Princes Street South,
City Quay,
Dublin 2.

Reg. Ref. 91A-1442
 Appl. Rec'd: 03.09.1991
 Floor Area: 128 sq. m.
 Site Area: 57,620 sq. m.
 Zoning:




Report of the Dublin Planning Officer, dated 30 October 1991

This is an application for PERMISSION to enclose part of existing cantilevered canopy for storage purposes at west side of existing Packard Electric Ltd. factory at side which is visible from Airton Road.

The floor area of the proposed storage area is 128 sq. m.

HISTORY

Reg. Ref. 90A-0454: Permission was granted for minor alterations and single storey office extension (646 sq. m. approx.) on east side (Greenhills Road) of Packard Electric Ltd. factory.

Reg. Ref. 90A-0455: Permission was granted for single storey extension (1,464 sq. m. approx.) to north of (Packard Electric Ltd.) factory, new two storey toilet block, sunken loading area, internal access roadway, an additional 220 off street car parking spaces, new car park entrance at Airton Road and minor alterations to existing car park access at Airton Road/Greenhills Road.

PLANNING COMMENT

The developments approved for Reg. Ref. 90A-0454 and Reg. Ref. 90A-0455 have not been carried out.

The steel columns and part of the cladding have been erected. Cladding is similar to that of main building and the dark grey colour contrasts with the light grey of the main building.

The proposal is acceptable.

R.C. As significant works had commenced at the time of the site inspection (Continued) it is not considered appropriate to include a by-law condition

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Proposed to enclose part of existing cantilevered canopy for storage purposes at west side of existing factory at Pirton Road/Greenhills Road, Tallaght for Packard Electric Ltd.

(Continued)

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (2) conditions:-

CONDITIONS	REASONS FOR CONDITIONS
1. 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.	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained.
2. That drainage arrangements be in accordance with requirements of Sanitary Services Department.	2. In order to comply with the requirements of the Sanitary Services Department.

(CNIÉ/DK)

Endorsed:-


for Principal Officer


For Dublin Planning Officer

30.10.91

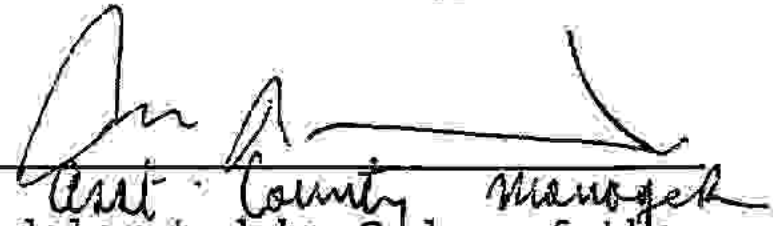
Order:-

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 (2) conditions set out above is hereby made.

Dated:

31 October, 1991.

to whom the appropriate powers have been delegated by Order of the Dublin City and County Manager, dated 23rd October, 1991.


Dublin City and County Manager

SS only

(R)

Register Reference : 91A/1442

Date : 12th September 1991

Development : Enclose part of existing cantilevered canopy for storage purposes at west side of existing factory

LOCATION : Airton Road/Greenhills Road, Tallaght

Applicant : Packard Electric Ltd

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning officer : G. BOOTHMAN

Date Recd. : 3rd September 1991

Attached is a copy of the application for the above development. Your report would be appreciated within the next 28 days.

Yours faithfully,

DUBLIN Co. COUNCIL
23 SEP 1991
SAN SERVICES

DUBLIN CO. COUNCIL
SANITARY SERVICES
for PRINCIPAL OFFICER
17 OCT 1991
Returned *[Signature]*

Date received in sanitary services

FOUL SEWER

No objection - refer protection of existing drains to R.B.C.

SURFACE WATER

Available to existing system

SENIOR ENGINEER,
SANITARY SERVICES DEPARTMENT,
46/49 UPPER O'CONNELL STREET,
DUBLIN 1

PLANNING DEPT 10.10.91
DEVELOPMENT CONTROL SECT
Date 18.10.91
Time 12.00

[Signature]

*J.R.
14/10/91*

Register Reference : 91A/1442

Date : 12th September 1991

.....
ENDORSED

DATE

WATER SUPPLY.....

Available for Zoned use:

L. J. Spain
3rd Oct 91

[Signature]
4/10/91

.....
ENDORSED

[Signature]

DATE

15/10/91

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 18.10.91
Time 12.00



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

Mr. J. Carson,
Liffey House,
Dublin 2.

Our Ref.

Your Ref.

Date 9.1.92

Re: Development at Airton Rd / Grantville Rd.

Reg. Ref. No. : 91A/1442

I refer to the submission for Building Bye-Law Approval received in this Department on 12.12.91.

The submission is in compliance with conditions of Building Bye-Law Approval issued. Please confirm that the submission is strictly compliance as requested and not a new application and accordingly that a Bye-Law fee is not required. Documents enclosed.

for Walter De
STAFF OFFICER,
REGISTRY SECTION

KEANE MURPHY DUFF
Chartered Architects, Designers & Project Managers

4 Prince's Street South, City Quay, Dublin 2 Telephone: 770077 Facsimile: 771186

Ref: GG/MQ

11th December, 1991.

Dublin County Council,
Building Control Section,
Block 2,
Irish Life Centre,
Lr. Abbey Street,
Dublin 1.

Re: Enclosure Of Canopy At Packard Electric, Airton Road / Greenhills Road,
Tallaght, Dublin 24.

Your Ref: 91A/1442 - BBL/3343/91

Dear Sirs,

Concerning the Building Bye-Laws Approval Notice received for the above project please find enclosed two copies of "Specification for Structural Work" as discussed with your Office and required under Condition No. 5 of the above Approval Notice.

Yours faithfully,



Gerard Grimes,
KEANE MURPHY DUFF.

91A/1442

1.2.0

BBL Comp



RECEIVED
12DEC1991
REG. SEC.

SPECIFICATION
for
STRUCTURAL WORK
at
PACKARD ELECTRIC

ARCHITECTS

Keane Murphy Duff

CONSULTING ENGINEERS

Brian Hendrick + Associates

CONCRETE

All concrete work shall comply with the requirements of BS8110 parts 1 & 2.

Concrete grade C35 shall be used for all structural works: Water/cement ratio 0.65: minimum cement content 300 Kgs per cubic metre.

The requirements of the following materials standards shall also apply:

IS1	Portland Cement
IS5	Aggregates for building
BS1881	Methods of testing concrete
BS4449	Hot rolled steel bar reinforcement
BS4461	Cold worked steel bar reinforcement

FOUNDATION WORK

All foundation works shall comply with the requirements of BS8004.

A minimum bearing pressure of 100 KN/M² has been assumed in the foundation design.

Obstructions or unexpected ground conditions at or below formation levels shall be reported to the Engineers and shall be dealt with as directed by them.

MASONRY WALLING

All masonry walls shall comply with the requirements of IS325.

Unless otherwise noted solid blocks grade 5 N and 1:1:6 mortar shall be used.

The requirements of the following materials standards shall also apply:

IS20	Concrete building blocks
IS57	Damp proof courses
BS729	Hot dip galvanized coatings
BS1243	Metal ties for cavity construction
BS4887	Mortar plasticisers
BS5628	Structural use of masonry
BS5977	Specification for prefabricated lintels.

Vertical chases only shall be permitted in blockwork.

The maximum height of masonry built in one day shall be limited to 1.5 metres.

STEELWORK

All steelwork shall comply with the requirements of BS5950.

Site measurements shall be obtained by the Contractor prior to the preparation of the shop drawings.

All steelwork shall be protected as follows unless otherwise noted:

STEELWORK
Continued

1. Shot blast to S.A. 2.5
2. Zinc based primers to D.F.T. of 150 microns.
3. Touch up damaged paintwork on site

The requirements of the following materials standards shall also apply:

BS4	Structural steel sections
BS4360	Specification for weldable structural steel
BS4872	Approval testing of welders
BS5493	Protective coatings against corrosion.

DUBLIN COUNTY COUNCIL

Tel. 724755 (ext. 262/264)

PLANNING DEPARTMENT,
BLOCK 2,
IRISH LIFE CENTRE,
18 ABBEY STREET,
DUBLIN 1.

Notification of Decision to Grant Permission/

Local Government (Planning and Development) Acts, 1963-1983

To Keane Murphy Duff Architect,
4, Princes Street South,
City Quay,
Dublin 2.

Decision Order P/5065/91 - 31.10.1991

Number and Date

91A-1442

Register Reference No.

Planning Control No.

03.09.1991

Application Received on

Floor area: 128 sq. m.

Applicant Packard Electric Ltd.

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/ for:-

to enclose part of existing cantilevered canopy for storage
purposes at west side of existing factory at Birton
Road/Greenhills Road, Tallaght.

SUBJECT TO THE FOLLOWING CONDITIONS

CONDITIONS	REASONS FOR CONDITIONS
1. 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.	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained.
2. That drainage arrangements be in accordance with requirements of Sanitary Services Department.	2. In order to comply with the requirements of the Sanitary Services Department.

Signed on behalf of the Dublin County Council

[Signature]
Principal Officer

31.10.1991

Date

IMPORTANT: Turn overleaf for further information

CONDITIONS

REASONS FOR CONDITIONS

NOTE:

If there is no appeal to An Bord Pleanála 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 appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

An appeal against the decision may be made to An Bord Pleanála. 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 the decision.

An appeal shall be in writing and shall state the subject matter and grounds of the appeal. It should be addressed to:—
An Bord Pleanála, Blocks 6 and 7, Irish Life Centre, Lower Abbey Street, Dublin 1.

(1) An appeal lodged by an applicant or his agent with An Bord Pleanála will be invalid unless accompanied by a fee of £36 (Thirty-six Pounds). (2) A party to an appeal making a request to An Bord Pleanála for an Oral Hearing of an appeal must, *in addition* to (1) above, pay to An Bord Pleanála a fee of £36 (Thirty-six Pounds). (3) A person who is not a party to an appeal must pay a fee of £10 (Ten Pounds) to An Bord Pleanála when making submissions or observations to An Bord Pleanála in relation to an appeal.

Approval of the Council under 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/1442

Date : 4th September 1991

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

Dear Sir/Madam,

DEVELOPMENT : Enclose part of existing cantilevered canopy for
storage purposes at west side of existing factory

LOCATION : Airton Road/Greenhills Road, Tallaght

APPLICANT : Packard Electric Ltd

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to the above, I acknowledge receipt of your application
received on 3rd September 1991.

Yours faithfully,

.....
for PRINCIPAL OFFICER

Keane Murphy Duff Architects,
4 Princes Street South,
City Quay,
Dublin 2.

If there is any query with regard to the information contained in this newspaper notice we would be glad if you could advise us immediately to this effect.

Comhairle Chontae Atha Cliath



Planning Application Form/
Bye - Law Application Form

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 Packard Electric Ltd.,
(If none, give description sufficient to identify) Airton Road / Greenhills Road, Tallaght, Dublin 24.

3. Name of applicant (Principal not Agent) Packard Electric Ltd.
Address Airton Road / Greenhills Road, Tallaght, Dublin 24. Tel. 515477

4. Name and address of Keane Murphy Duff Architects, 4 Princes Street South, City Quay,
person or firm responsible Dublin 2. Tel. No. 770077
for preparation of drawings

5. Name and address to which Keane Murphy Duff Architects, 4 Princes Street South,
notifications should be sent City Quay, Dublin 2.

6. Brief description of proposed development Part enclosure of existing cantilevered canopy adjacent Warehouse.

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 Factory and ancillary accommodation
or use when last used.
(b) Proposed use of each floor Factory and ancillary accommodation

CO. DUBLIN Permission is sought to enclose part of existing cantilevered canopy for storage purposes at west side of existing factory at Airton Road/Greenhills Road Tallaght, for Packard Electric Ltd.

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 57,620 Sq. m.
(b) Floor area of proposed development 128 Sq. m.
(c) Floor area of buildings proposed to be retained within site Existing buildings 11,647 Sq. m.

4224 5/9
N47708

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 Yes No Place in appropriate box.

It is the practice of this office to take account of the Draft Building Regulations as issued by the Minister for the Environment in the design of buildings, but this is not to be interpreted as a guarantee that the provisions of the Draft Building Regulations have been implemented in full or in any particular respect in this proposal.

14.Please state the extent to which the Draft Building Re

15.List of documents enclosed with application. Schedule of Documents (4 copies)
Drawings as per Schedule (4 copies), Irish Press Notice (22.8.91)
Structural Calculations (4 copies), Planning & Bye-law Fee
Structural Design Cert. (4 copies), Cheque.

16.Gross floor space of proposed development (See back) 128 Sq. m.

No of dwellings proposed (if any) 0 Class(es) of Development Class 4 & Class C
Fee Payable £ 672 Basis of Calculation Planning 128 x £1.75 = £224, Bye-Law 128 x £3.50 = £448,
If a reduced fee is tendered details of previous relevant payment should be given

Signature of Applicant (or his Agent) [Signature] KMD Date 28 August 91

Application Type P. 332
Register Reference 91A/1927/1442
Amount Received £
Receipt No
Date 22-5

FOR OFFICE USE ONLY

3.20.4

RECEIVED
3 SEP 1991
RST

23/8/91

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

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications 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 situate, 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

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 — DUBLIN COUNTY COUNCIL

CASH
CHEQUE M.O.
B.L.
L.T.

46/49 UPPER O'CONNELL STREET
DUBLIN 1.

Issue of this receipt is not an
acknowledgement that the fee
tendered is the prescribed application
fee. N 47708

€ 274.00

Received this 3rd day of August 1998

from Packard Electric Ireland

the sum of two hundred and seventy four Pounds

hence being

planning application on

Noelán Oa

Cashier

S. C. CABEY
Principal Officer

COMHAIRLE CHONTAE ATHA CLIATH

DUBLIN COUNTY COUNCIL

PAID BY

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

CASH

CHEQUE

M.O.

B.L.

I.T.

REC. No. N 47207

Received this 3rd day of September 19...

from Packard Electric Inc. ID

the sum of five hundred and ... Pounds

Pence being

bye law application at

Aslan Beane Cashier

S. GAREY Principal Officer

BRIAN HENDRICK + ASSOCIATES

Consulting Engineers
Structural and Civil

10. Priory Hall,
Stillorgan,
Co. Dublin,
Ireland.
Telephone: (01) 2834866
Facsimile: (01) 2834869

B. HENDRICK C.Eng., F.I.Struct.E., F.I.E.I., M.Cons.E.I.

BH/DL

Dublin County Council
Building Bye-Law Department,
Liffey House,
Tara Street,
Dublin 2.

21 August 1991

Re : Packard Electric

Dear Sirs,

We wish to certify that the structure of the above development has been designed in accordance with the following codes of practice:

BS8110	Structural use of Concrete
BS449	Structural use of Steelwork
BS5628	Structural use of Un-reinforced Masonry
BS8004	Foundations
BS6399	Loadings for Buildings
CP3 CH.5	Wind Loads

Yours sincerely,



BRIAN HENDRICK & ASSOCIATES

DUBLIN COUNTY COUNCIL
Planning Dept. Registry Section
APPLICATION RECEIVED

- 3 SEP 1991

REG No. 9119/1442

Re: Packard Electric - Job No. 91063

Schedule of documents included with Planning and Bye-Law Application.

KEANE MURPHY DUFF DRAWINGS:

Drawing no.

91063/01 A	-	4 Copies
91063/02 A	-	4 Copies
91063/03	-	4 Copies

BRIAN HENDRICK & ASSOCIATES DRAWINGS AND DOCUMENTS:

Drawing No.

136/01	-	4 Copies
136/02	-	4 Copies

Structural Calculations	-	4 Copies
Structural Design Cert	-	4 Copies



BRIAN HENDRICK + ASSOCIATES

Consulting Engineers

Structural and Civil

10, Priory Hall,

Stillorgan,

Co. Dublin,

Ireland.

Telephone: (01) 2834866

Facsimile: (01) 2834869

B. HENDRICK C.Eng., F.I.Struct.E., F.I.E.I., M.Cons.E.I.

PROJECT

PACKARD ELECTRIC

DESIGN SUMMARY SHEET

21st August 1991

DESIGN CODES

BS 6399

CP3 Ch.5

BS 8110

BS 5950

IS 325

BS 5628

Loading

Wind Loads

Concrete

Steelwork

Masonry Design

Masonry Construction

LOADS

Roofs: Live load

0.75 KN/Sq.M

WINDS LOADS

1.00 KN/Sq.M Pressure

0.70 KN/Sq.M Suction

EXPOSURE

Internal - mild

External - severe

SUBSOIL

Firm brown stoney clay.

FOUNDATIONS

Max bearing pressure of 100 KN/M2.

CONCRETE GRADE

C35/20

REINFORCEMENT

FY = 460 N/Sq.mm

FIRE RESISTANCE

Generally 1 Hr.

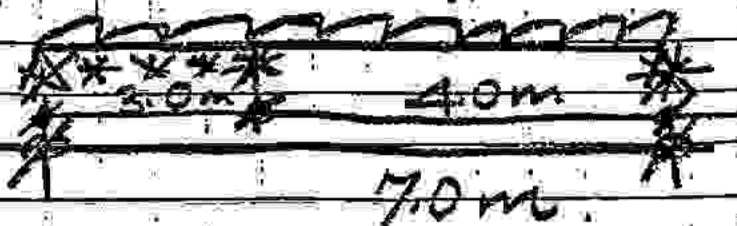
DUBLIN COUNTY COUNCIL
Planning Dept. Reg. Section
APPLICATION RECEIVED

-3 SEP 1991

REG No. 91A/1442

COL (WORST CASE)

OUTPUT



* LATERAL RESTRAINT TO COMPRESSION FRAMES

$W_k = \text{Wind Load} = 1.0 \text{ kN/m}^2$ PRESSURE
 $= 0.17 \text{ kN/m}^2$ SUCTION

SERVICE LOAD = $1.0 \times 1.1 = 1.1 \text{ kN/m}$

Ultimate LOAD = $1.4 \times 1.1 = 1.54 \text{ kN/m}$

$M = 1.54 \times 7.0^2 / 8 = 75.4 \text{ kNm}$

$I = \frac{5}{384} \times \frac{1.54 \times 7.0^4}{205 \times 10^3} \times 10^5 = 3595 \text{ cm}^4$

$S_x = \frac{75.4}{127.5} = 591.4 \text{ cm}^3$

TRY 254 x 146 x 31 kg/m UB

$I = 4440 \text{ cm}^4$ O.K.

$S_x = 396 \text{ cm}^3$ O.K.

LATERAL TORSIONAL BUCKLING

$L_E = 4000 \text{ mm}$

SUCTION LOADING

$r_y = 33.5 \text{ mm}$

$\lambda = \frac{L_E}{r_y} = \frac{4000}{33.5} = 119$

$u = 0.873$

$\alpha = 29.4$

$N = 0.5$

$\lambda/\alpha = 4.0$

$v = 0.86$

$m = 1$

$B = 0$

$\chi = 0$

$\eta = 0.94$

$\lambda_{LT} = 0.94 \times 0.879 \times 0.86 \times 191 = 136$

$P_y = 275 \text{ N/mm}^2$ As T > 16mm

$P_b = 79 \text{ N/mm}^2$

$M_b = 0.079 \times 396 = 32 \text{ KNm}$

SUCTION CASE

$w_k = \frac{32}{48} = 0.67 \text{ k/m}^2$

Cladding rail laterally restrains the compression flange for pressure loading

$L_E = 2.0 \text{ m}$

$\lambda = 60$

$\frac{\lambda}{\lambda_c} = 2.0$

$\eta = 0.96$



$\lambda_{LT} = 0.94 \times 0.879 \times 0.46 \times 60 = 48$

$P_b = 238$

$M_b = 0.238 \times 396 = 95 \text{ KNm}$

Pressure $w_k = \frac{95}{48} = 2.0 \text{ k/m}^2$ O.K.

SHEAR

$F_v = 7.7 \times 7.0 / 2 = 27 \text{ kN}$

$0.6 P_v = 0.6 \times 25 \times 51.5 \times 0.1 \times 10^3 = 253 \text{ kN}$ O.K.

CAPACITY

2.0 kN/m^2 Pressure

0.7 kN/m^2 Suction

Use $25 \text{ k} \times 1.46 \times 31 \text{ kg/m}$

BASE PLATE

SWEARLOAD = 27 KN Pressure

= 18 KN Suction

Use 20 Tk Baseplate

STEP WD = $1 \times 3 \times 24 = 7.2 \text{ KN/m}$

WALL WT = $5.5 \times 3 = 19.5 \text{ KN/m}$

Backfill = $0.5 \times 18 = 9 \text{ KN/m}$

35.7 KN/m

Vertical Load = $35.7 \times 11 \frac{1}{2} = 196 \text{ KN}$

FRICITION = $0.4 \times 196 = 78 \text{ KN}$

NO SLIDING

BOLTS = $\frac{27}{9} = 3 \text{ KN}$

Use 4 NO. M20

CAPACITY = 10.5 KN EACH

Use 20mm Nominal
TK BRK PLATE

STEP

$b = \frac{30 \text{ KN/m}}{100} = 0.3 \text{ m}^2$

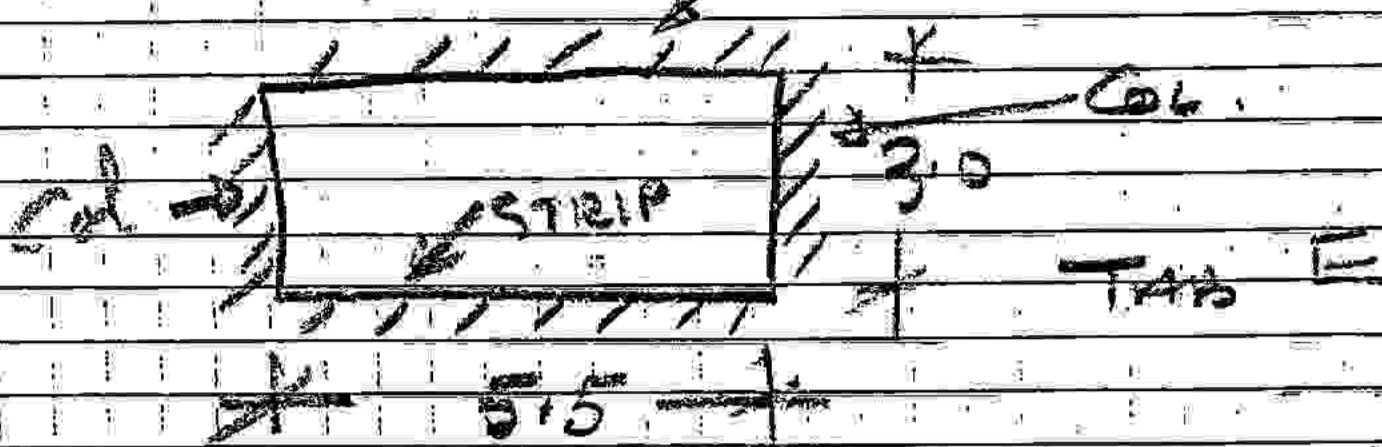
Use 1000 x 300 TK

Area = $0.0013 \times 1000 \times 200 = 390 \text{ m}^2/\text{m}$

TID. 200 TRANSVERSE (393)

~~MASONRY~~

U-BLOCK



$$\frac{h}{L} = \frac{3.0}{5.5} = 0.55$$

$$F_{KV} = 0.25$$

$$W_{12} = 10 \text{ kN/m}^2$$

$$F_{M2} = 0.4$$

$$g_d = \frac{1.5 \times 0.315 \times 21}{10^3 \times 315} = \frac{10 \text{ kN/m} \times 10^3}{10^3 \times 315} = 0.032$$

$$F_{K2} = 0.25 + 3.5 \times 0.032 = 0.36 \text{ N/mm}^2$$

$$\mu = \frac{0.36}{0.9} = 0.9$$

$$\alpha = 0.019$$

$$\gamma_f = 1.4$$

$$M_{11} = 0.019 \times 1.0 \times 10^4 \times 5.5^2$$

$$M_{11} = 0.8 \text{ kNm}$$

$$M_{12} = 0.9 \times 0.8 = 0.72 \text{ kNm}$$

$$M_{1e} = \frac{0.36}{3.5} \times \frac{1000 \times 100^2 + 215^2}{6} \times \frac{1}{10^6} = 0.96 \text{ kNm}$$

MASONRY O.K.

LOADING RAILS

OUTPUT

RAIL Center = 2m

SPAN = 5.5m

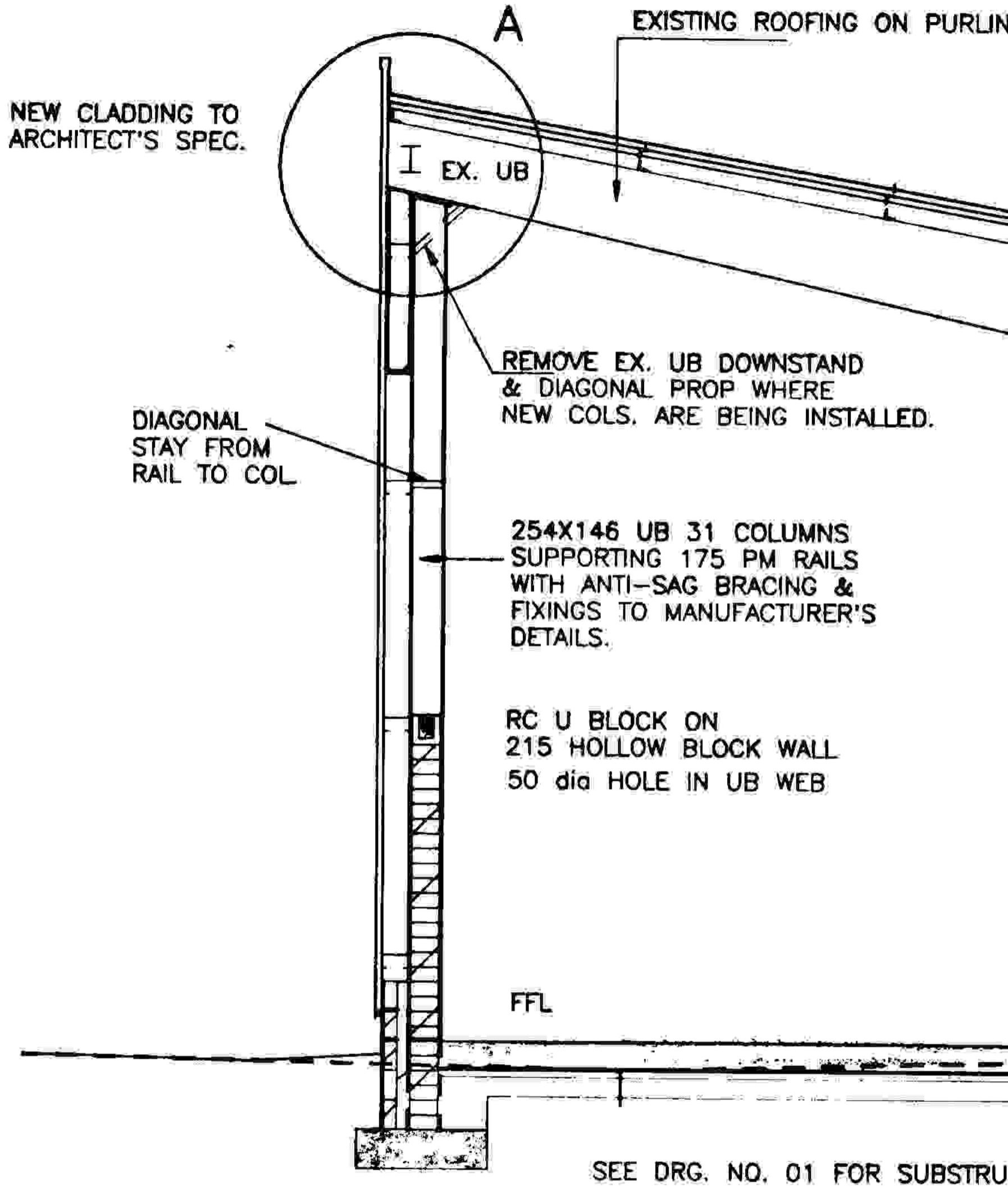
Multi beam R17B/17S

Allowable load = 10kN/m

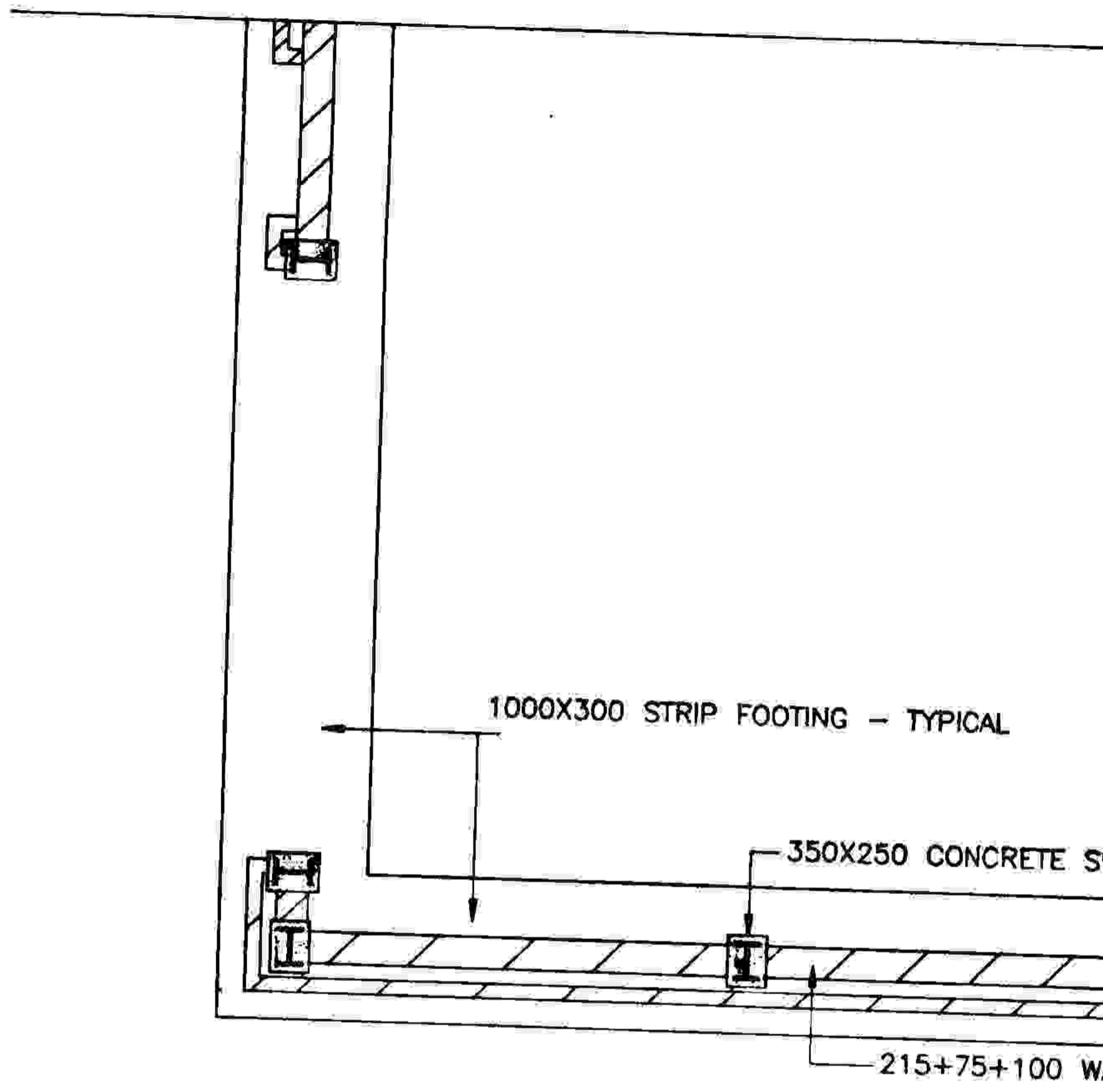
Equivalent End bay Section

R17B/22S

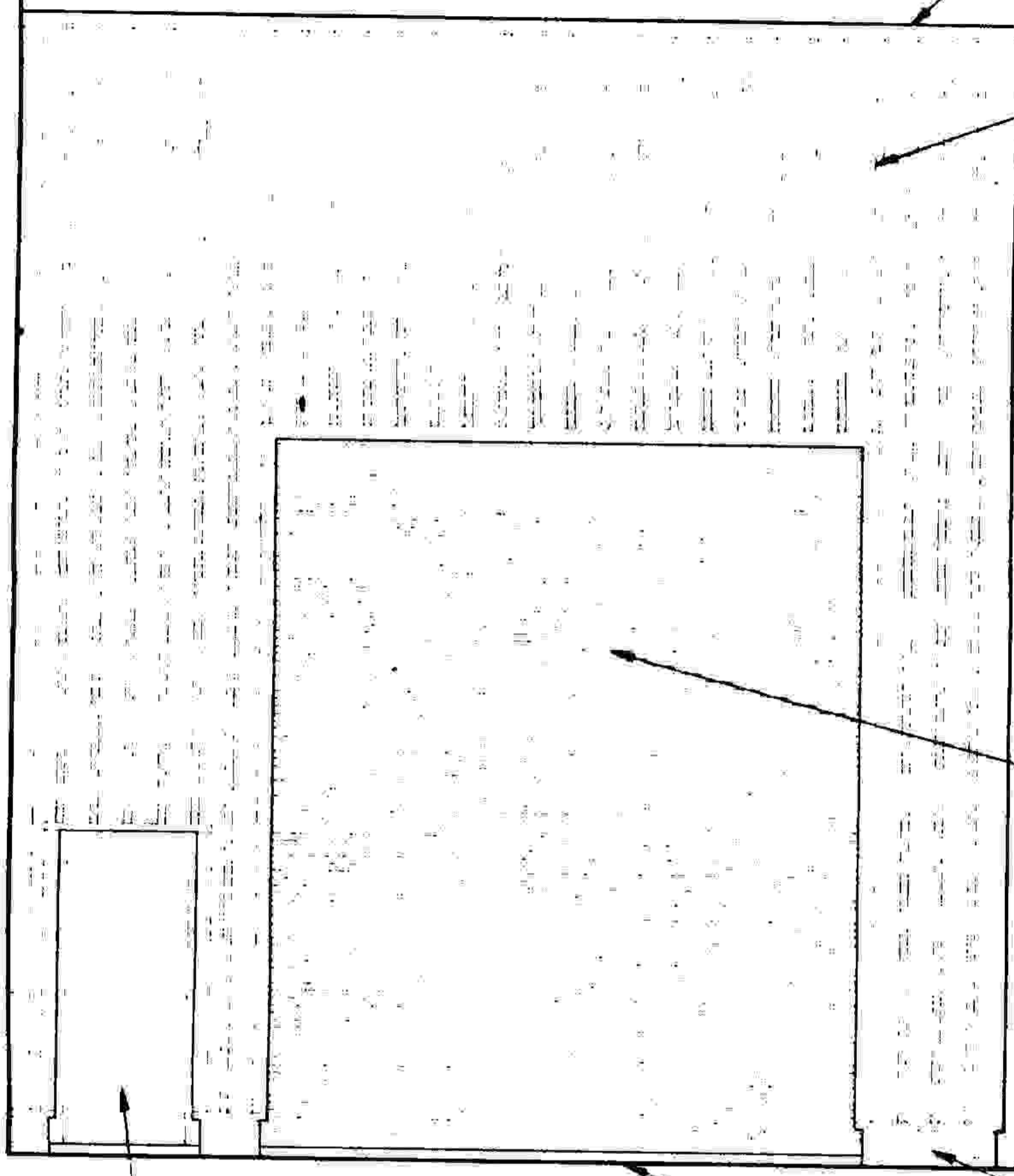
ROOF PLAN



TYPICAL CROSS SECTION



FOUNDATION PLAN



KINGSPAN CAPPING PIECE

NOTE:-
 CLADDING SHALL BE EITHER
 A. KINGSPAN 1000 SERIES
 WALL PANEL 50MM
 B. KINGSPAN 1000 SERIES
 INSULATED WALL PANEL
 COLOUR TO BE AGREED
 PRIOR TO ORDERING
 PANELS SHALL BE FIXED
 ACCORDANCE WITH MANUFACTURER'S
 INSTRUCTIONS AND DETAILS
 ACCORDANCE WITH ENGINEER'S DRAWINGS

NEW COLOURED GALVANIZED
 ROLLER SHUTTER DOOR
 OPE HEIGHT 4.75M

GROUND LEVEL

FIRE ESCAPE DOOR

SMOOTH PLASTER PLINTH

GABLE ELEVATION

RAMP UP ENTRANCE TO
 REQUIRED AND MAKE GOOD

ROOF PLAN

MAIN BUILDING

SOFFIT 93.81
(Cladding)

SOFFIT 93.84

88.69

17.2

450

6612

4000

900

6227

NEW COLOURED GALVANISED STEEL
ROLLER SHUTTER DOOR
OPE HEIGHT 4.75M

CONCRETE

LINE OF EXISTING GUTTER

SOFFIT LEVEL 93.81
(Cladding)

FALL

NOTE -
PROVIDE EXPANSION JOINTS TO OUTER
LEAF AS SHOWN ON ENGINEERS DETAILS

G

PROVIDE NEW GULLY TRAP
TO DRAIN TARMAC AND CONNECT
INTO EXISTING SURFACE WATER
DRAINAGE SYSTEM

RAMP UP ENTRANCE TO DOOR AS
REQUIRED AND MAKE GOOD

GROUND

NO
TA
PA
150
EN
100
SA
150

EX
KIN
FIX
ALL
AT
100
PLA
75
INN
AND

