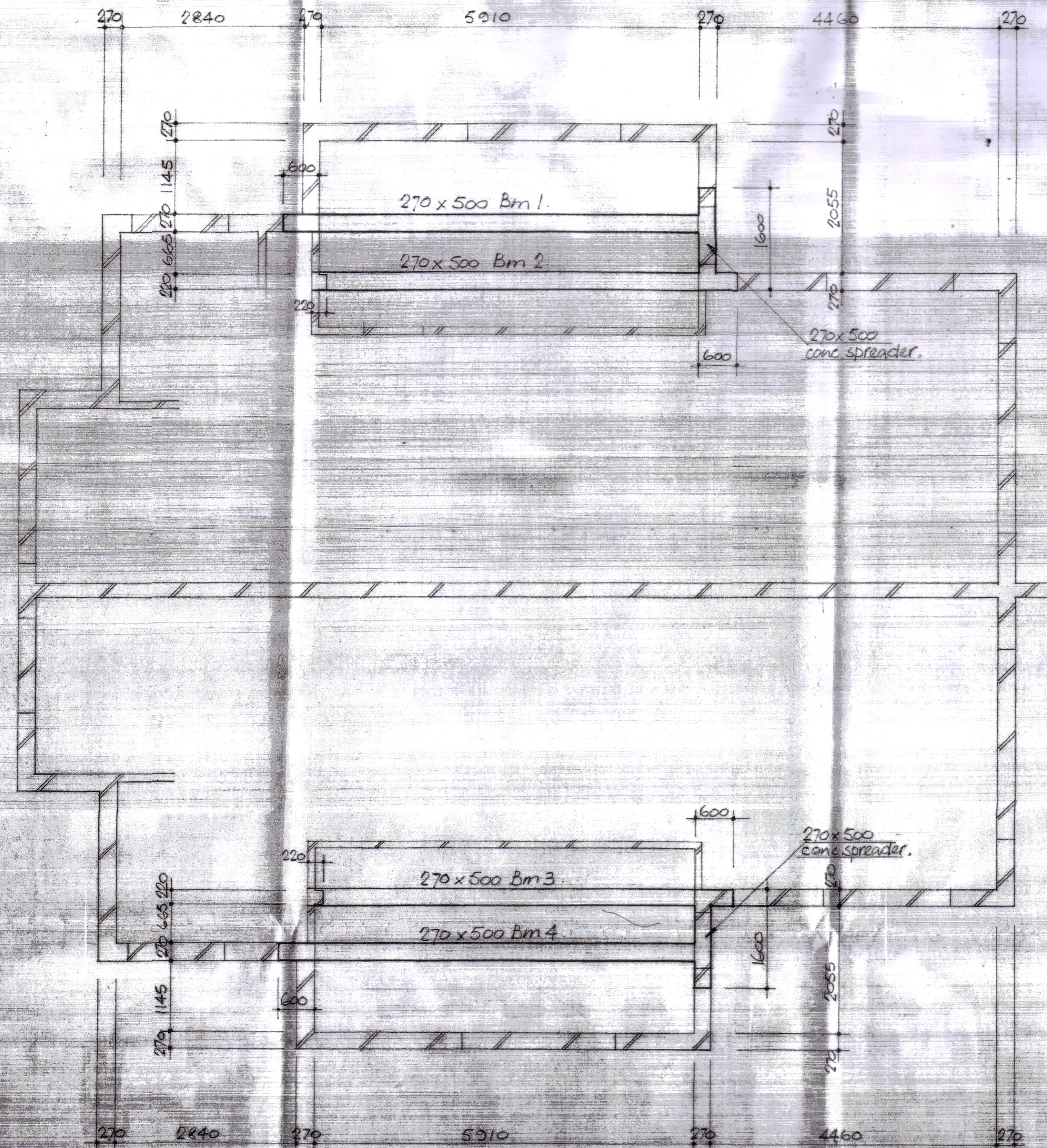


IF IN DOUBT ASK



1.50 Eaves Plan

MUNICIPALITY JEFFREYSBAY
MUNICIPALITY JEFFREYS BAY
GOEDGEKUR APPROVED

14/5/88
BODILAND
BODILAND
1987.08.14
DATE

SENIOR TECHNICAL OFFICER
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GENERAL NOTES

CEMENT: All cement used shall comply in all respects with S.A.S. 471 (Latest amendment). Rapid hardening cement and blast furnace cement shall NOT be used without the Engineer's permission. Cement shall be stored in a warehouse and shall be used in the order in which it is stored. Any pockets containing hardened lumps or cakes of cement shall be rejected.

AGGREGATES: All aggregates, both fine and coarse, shall comply in all respects with S.A.S. 718 (Latest amendment).

WATER: Water used for making cement shall be clean and free from clay, silt and such amounts of oil, acid, alkali or organic materials as would be deleterious to the quality of the concrete.

CONCRETE MIXES: The Contractor shall, at the commencement of the project, submit samples of the concrete materials he proposes using for concrete manufacture, to the Portland Cement Institute or other approved laboratory for analysis and design of suitable concrete mixes to attain strengths specified below. The results of such analysis and the proposed mixes shall be submitted to the Engineer for approval before ANY concrete is manufactured on site. Before any change is made to the approved mixes the Engineer shall be notified and his approval obtained. Should the Contractor change his source of supply of aggregates during the course of construction he shall repeat the above process. As far as is practicable all batching of materials shall be by weight.

FORMWORK: The General Contractor shall be responsible for the adequacy of all formwork. This should be so arranged as to permit of easing and removal without jarring the concrete. Wedges, clamps and bolts should be used wherever possible. Unless otherwise specified, all moulds for rectangular columns should be constructed with one side open to permit filling in layers. The responsibility for the safe removal of the whole or any part of the formwork shall rest entirely with the General Contractor.

MAINTAINING REINFORCEMENT IN POSITION: The General Contractor shall ensure that the correct concrete cover is maintained during the casting of concrete. In order to do this he shall provide suitable concrete or plastic cover blocks. No other method is acceptable. Unless otherwise specified the clear concrete cover to all reinforcement shall be as follows:

Slabs	20mm or max. bar diameter whichever is the greater, but external slabs 40mm
Beams	40mm on all faces
Columns	40mm on all faces
Base	75mm

CONCRETING: All dirt, shavings, sawdust, etc., shall be removed from the formwork before concreting. Formwork and bottom slab shall be wetted immediately prior to concreting. The concrete shall be thoroughly consolidated by means of tapping or vibration. Concrete shall be dumped in its final position and shall not be moved along the formwork by means of vibration. The ribs of T and L beams, whether cast above or below the slab shall be poured simultaneously with the slabs unless otherwise agreed with the Engineer. Care shall be taken to ensure that the concrete is not disturbed or subjected to vibration during the setting period.

CONSTRUCTION JOINTS: Concreting, once begun, shall continue without break. When this is impractical the plane and method of closure shall be as directed by the Engineer, who should always be consulted in connection with these.

BONDING TO HARDENED CONCRETE: Before depositing fresh concrete against any concrete which has already hardened the surface of the hardened concrete shall be hosed to expose the aggregate and wire brushed to remove all laitance, and thoroughly washed with water. The hardened surface should be covered with a 10mm layer of mortar composed of sand and cement in the same proportions as contained in the fresh concrete. This mortar shall be placed immediately prior to concreting.

COLD WEATHER CONCRETING: No concrete shall be poured when the air temperature is below 2 °C on a falling thermometer or below 4 °C on a falling thermometer. All new concrete shall be properly protected during cold weather.

CURING: All new concrete shall be properly cured by means of polythene covering. Any alternative method to be approved by the Engineer.

LOADING DURING CONSTRUCTION: The General Contractor shall not subject the structure to excessive loading and/or vibration during construction.

STRIPPING OF FORMWORK: The time required before stripping of formwork shall be agreed upon with the Engineer.

HOLES, DUCTS, PIPES, ETC.: No holes or chases shall be cut or formed in the concrete and no pipes, conduits, etc., be laid without reference to the Engineer.

FOUNDATIONS: All excavations for foundations are to be inspected and approved by the Engineer before any concrete is placed. Where suitable founding material is NOT encountered at the depth indicated on the foundation drawings the excavations shall proceed to a depth where suitable material is encountered and the excavations filled to the required level with mass concrete of strength as specified below. The bottoms of ALL foundations shall, after approval by the Engineer, be sealed with a minimum of 75mm of "blinding".

DIMENSIONS: All dimensions are to be checked on site and to architects drawings. Beam sizes are given breadth x height.

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CONCRETE CLASSES					
CLASS	MINIMUM 28 DAY WORKS CUBE STRENGTH N/mm ²	MAX. AGGREGATE SIZE mm	CLASS	MINIMUM 28 DAY WORKS CUBE STRENGTH N/mm ²	MAX. AGGREGATE SIZE mm
A	45	20	E	15	20
B	35	20	F	10	20
C	30	20			
D	25	20			

CONTROLLED CONCRETE STRENGTHS			
All concrete used in the construction shown on this drawing shall be of the classes as follows:-			
MASS CONCRETE	BEAM AND SLABS		D
FOUNDATIONS	WALLS		
COLUMNS UP TO FLOOR	FLOOR		
COLUMNS FLOOR TO FLOOR	FLOOR		

FOUNDATIONS
Foundations on this drawing are based on a safe allowable ground pressure of 100 kN/m².
IMPORTANT - This pressure is based on a reasonable assessment of ground conditions on site from Trial Holes, Soil Reports and/or any other means, but, notwithstanding the foregoing, these Foundations may have to be completely revised after excavations have been fully opened up and inspected by our Engineers.

CANTILEVERS
IMPORTANT - Contractors must make sure that cantilever steel is kept in top of slab and not pushed down during concreting. Steel reinforcement in cantilever slabs must have mm. minimum concrete cover or diameter of bar, whichever is greater, thus:-

mm COVER

DESIGN LOADING
The superstructure beams & slabs have been designed to support the following loads in addition to their own weight plus brick and/or lightweight walling as shown on the Architects drawing -
FINISHED - KN/m²
PARTITIONS - KN/m²
SUPERIMPOSED - 1.5 KN/m²
The total of these loads must never be exceeded.

RDS
CONCRETE ENGINEERS

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PHONE 432860
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GENERAL ADMIN 432860
FAX 432865

Project Res Mrs A E Stone
44, Dias Rd, Erf 105 Jeffreys Bay

Architect
Details of RC construction to Eaves

Designed by JEM
Scale 1:50

Drawn by JEM
Date 24.7.87

Checked by JEM P.T. J
Contract 4357
Drawing 2

DRAWING NO. 4357

REV.	DATE	DESCRIPTION