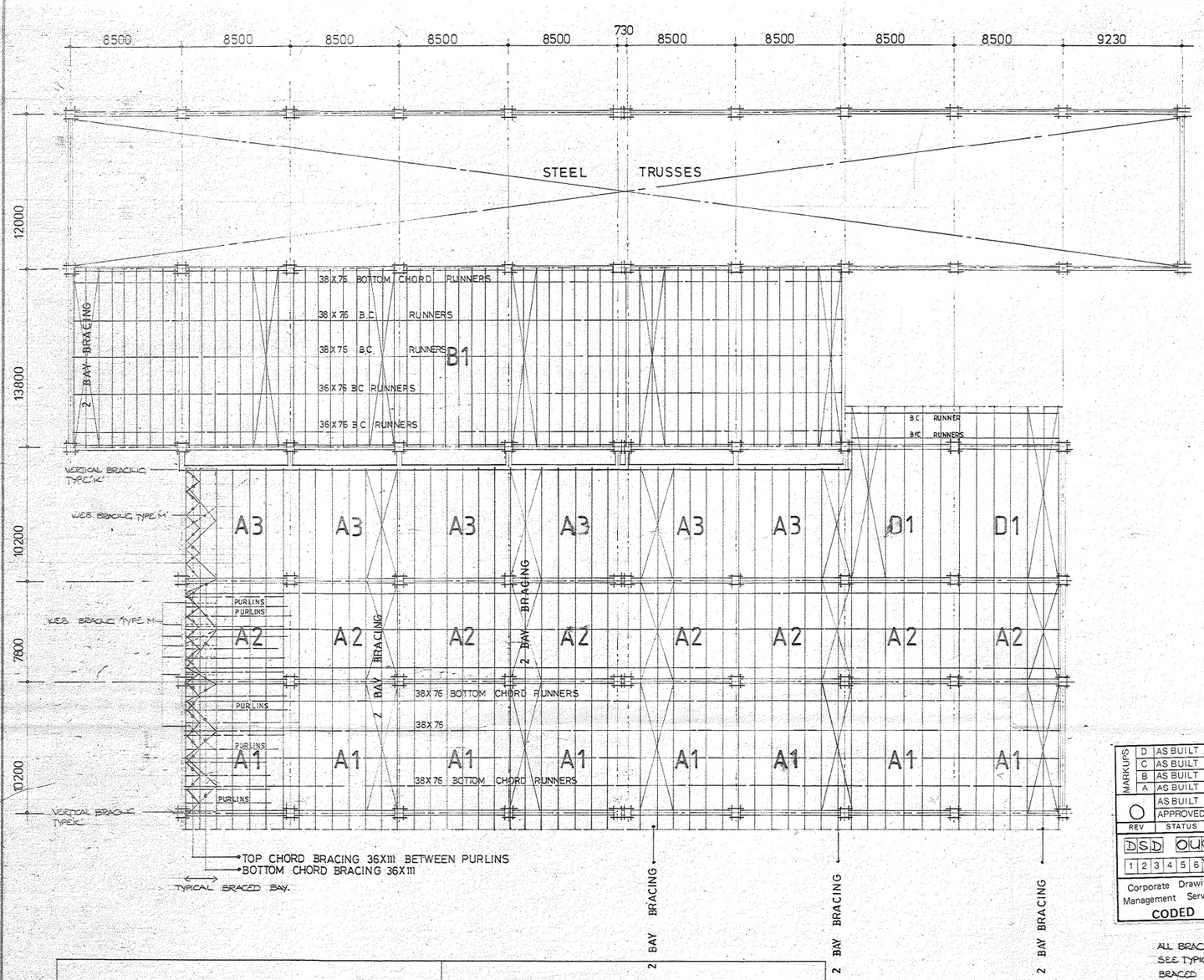
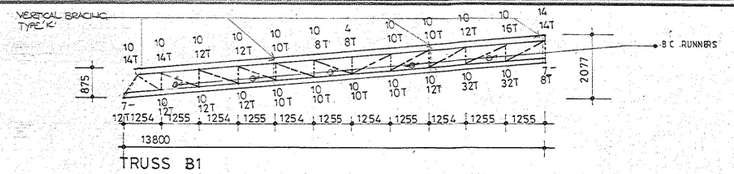
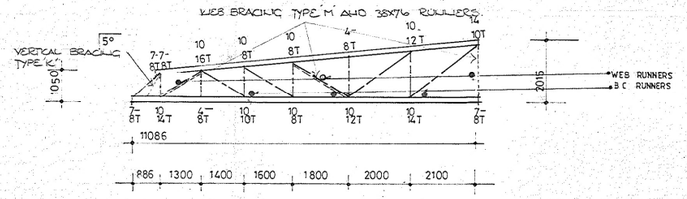




TRUSS B1

61 TRUSSES AT 1000 C.C.
PURLINS AT 1000 C.C.

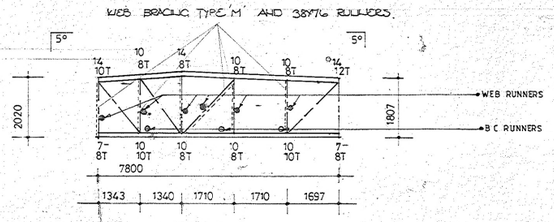
TC 36X149 8
BC 36X149 8



TRUSS A1

54 TRUSSES AT 1310 C.C.
PURLINS AT 1052 C.C.

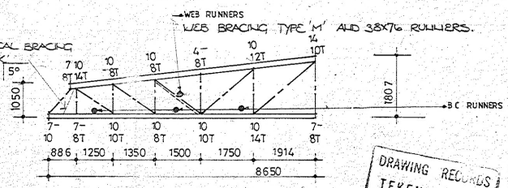
TC 36X149 4
BC 36X111 4



TRUSS A2

54 TRUSSES AT 1310 C.C.
PURLINS AT 898 C.C.

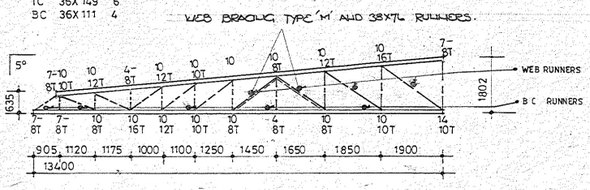
TC 36X111 4
BC 36X111 4



TRUSS A3

41 TRUSSES AT 1310 C.C.
PURLINS AT 1010 C.C.

TC 36X149 6
BC 36X111 4



TRUSS D1

13 TRUSSES AT 1310 C.C.
PURLINS AT 1090 C.C.

TC 36X111 6
BC 36X111 6

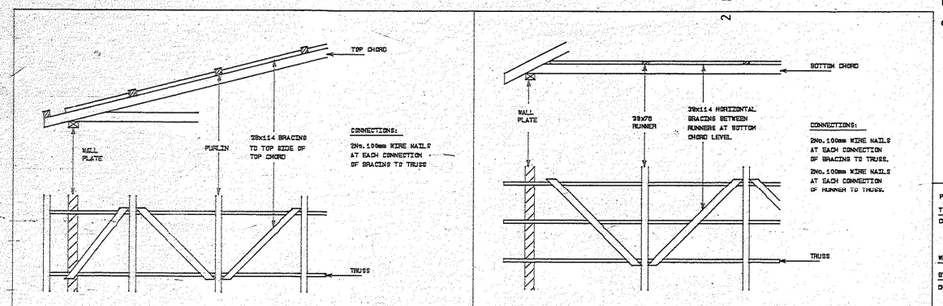
MARK	REV	STATUS	NAME	SIGNED	DATE
D		AS BUILT			
C		AS BUILT			
B		AS BUILT			
A		AS BUILT			
○		APPROVED	R.L. HART		92/12/23

DSD | OUG | 012

1 2 3 4 5 6 X | X B | SHT NO | HOLDER

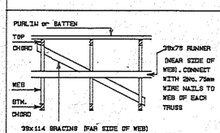
Corporate Drawing Management Services
CODED

ALL BRACING BAYS SHOWN:-
SEE TYPICAL LAYOUT ON DETAIL
BRACED BAY.

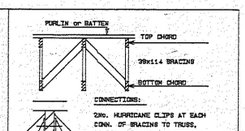


TOP CHORD BRACING TYPE A

BOTTOM CHORD BRACING TYPE D



WEB BRACING TYPE M



VERTICAL BRACING TYPE K

CONTR. Nº OPF 11982

0.66/19512 Rv 0

UNLESS OTHERWISE SHOWN, THE FOLLOWING NOTES APPLY TO THIS JOB

1. TIMBER SIZING
   (a) Timber may only be sized within the SABS tolerances.
   (b) Timber cross-section sizes shown are the minimum acceptable dimensions.
2. PURLINS
   For sheeted trusses at maximum 1 500 mm c/c use 50 x 75 purlins on edge. Each connection purlin to truss:
   (a) 1 No. 4mm dia. 125mm wire nail and tie each purlin to rafter connection with 2,5mm dia. double-strand galvanised wire.
   OR
   (b) 2 No. Hurricane Clips.
3. For all Hurricane clips on this drawing use 6 No. 2,8mm, 40mm long Galvanised Clout nails.
4. Purlins, runners and battens must be continuous over a minimum of two spans. Adjacent purlins and battens may not be spliced on the same rafter.
5. RUNNERS
   For trusses at maximum 1 500 mm c/c, provide 38 x 76mm longitudinal runners at bottom chord level at 2 880mm maximum c/c as shown. At each connection of runner to truss use 2 No. 4mm dia. 100mm wire nails. These runners are to be fixed and braced before fixing the roof cladding.
   Where the ceiling brandering is fixed directly to the tie beam, the required runners may be removed after the brandering is fixed.
6. BATTENS
   Battens are to be fixed along the rafter at maximum 540mm centres or at such smaller centres as required by the roofing material. These runners are to be fixed and braced before fixing the roof cladding.
   Where the ceiling brandering is fixed directly to the tie beam, the required runners may be removed after the brandering is fixed.
7. Ceiling Brandering.
   Brandering shall be nailed directly to the underside of the bottom chord using 75mm wire nails, one per joint.
8. Temporary Bracing of Sheeted Roofs.
   If the roofing material is to be fixed before the ceiling brandering is in position, then it is essential that temporary runners and bracing be fixed in position. See Note 5.
9. Recommended splicing of purlins, runners and battens.
   For 38 x 38mm battens use 2 No. 32 x 143 Gang-Nails.
   For 38 x 50mm battens use 2 No. 50 x 171 Gang-Nails.
   For 50 x 50mm battens use 2 No. 50 x 200 Gang-Nails.
   For 50 x 76mm purlins use 2 No. 71 x 203 Grypbite plates or 2 No. 70 x 200 Gang-Nails.
   OR
   as detailed on drawing.
10. Permanent Bracing.
    All purlins, battens and runners shall be braced. See details.
11. Each truss must be held down at each support with 1,2mm, 38mm, wide Galvanised Hoop Iron tie, embedded 7 courses into BWK or wrapped around the bottom layer of reinforcing in a R.C. beam or firmly embedded into a mass concrete beam, wrapped over the truss, and fixed with 4 No. 2,8mm, 40mm Galvanised Clout Nails or as detailed on drawing.
12. HURRICANE CLIPS AND U-TYPE HANGERS.
    These shall be those manufactured by Gang-Nail South Africa (Pty) Ltd. Unless otherwise specified, hangers and Hurricane clips are to be fully nailed using 2,8mm, 40mm long galvanised clout nails.
13. TIMBER: Sawn timber shall be stress graded to the grade specified unless otherwise stated.
    (a) Timber designated as grade (4) shall be graded either visually or mechanically in accordance with SABS 563.
    (b) Timber designated as grades (6), (8) or (10) shall be graded either visually or mechanically in accordance with SABS 1245 except that (8) or (10) must be mechanically graded.
    (c) Laminated timber shall be in accordance with SABS specification 876 for structural Glued Laminated Timber. Designated (Saligna GL) and (Pine GL) according to the species.
    SABS specification 1089 for Stock Glulam designated (Stock GL).
14. This data sheet and the information hereon, is the property of the truss fabricator, and is not to be copied in whole or in part, or used for unauthorised exploitation of items disclosed herein, or in any way disclosed or used for furnishing information to others. The structural timber design and fabrication details shown on this drawing are in accordance with SABS 0163 – Code of Practice for the Design of Timber Structures and the latest recommendations of the NATIONAL TIMBER RESEARCH INSTITUTE of the CSIR.

STORAGE, ERECTION & BRACING

a. Trusses must be stored on level, raised-bearers off the ground and covered.
b. Trusses must be carried vertically, avoiding rough handling, or distortion.
c. Do not cut trusses or use damaged trusses. Trusses should not be repaired or altered without reference to the fabricator.
d. The erector must provide sufficient temporary bracing to prevent "pack-of-cards" collapse during erection. Bracing shown on this drawing is the required permanent bracing and must be installed before the roof cover or any other loads are applied.
e. Trusses must be erected plumb and supported at the specified positions only.
f. Erection and bracing shall be strictly in accordance with the C.S.I.R./T.P.A.S.A. manual entitled "The Erection & Bracing of Timber Roof Trusses".
g. The truss fabricator cannot accept responsibility for any deviations from these specifications which occur during erection.
h. **IF IN DOUBT, ASK!**

LOADS
Any deviation from the loads specified must be approved by the truss fabricator.

	DESCRIPTION	kN/m²
TOP CHORD LIVE LOAD		=0,500
TOP CHORD DEAD LOAD	METAL	=0,096
	SHEETING	
BOTTOM CHORD LIVE LOAD		=
BOTTOM CHORD DEAD LOAD	6MM CVP	=0,089
	CEILING	
TRUSS CENTRES	A3 SHOWN.	

All loads are in accordance with the SABS Building Regulations.

N.B: MAXIMUM PURLIN SPACING=

MARK	DATE	DESCRIPTION
		REVISIONS

FEDERATED TIMBERS WITBANK

MAJUBA POWER STATION
CMGM WATER TREATMENT PLANT

SIGNED

PR. ENG.

FOR GANG NAIL SA(PTY) LTD.

DRAWN	CHECKED
S.P.	

SCALE	DRG. NO.	REV
1:200 1:100	N2024 OF 1	B

TauroGraphic