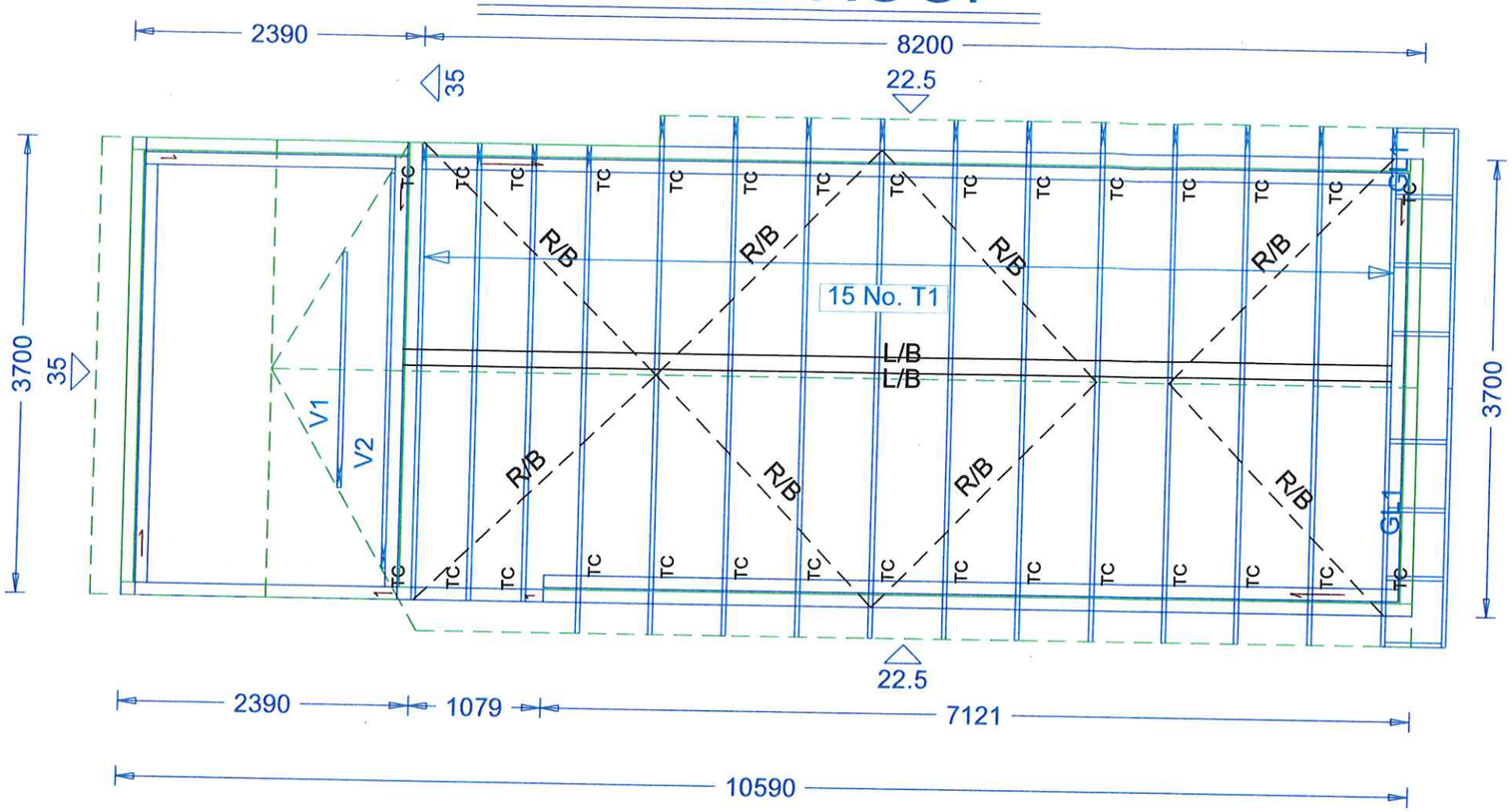
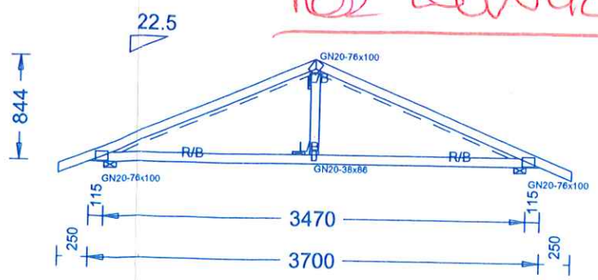
NEW RE-ROOF

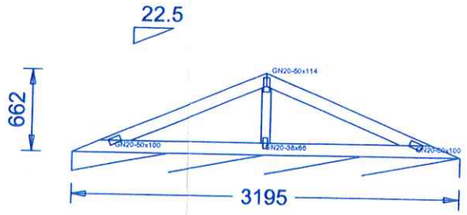


CALCULATIONS FOR GUNCL



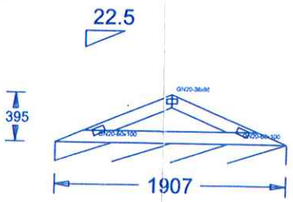
TC 35x72
BC 35x72
Web 35x72

15 No. T1 1 Ply - 13 kg



TC 35x97
BC 35x97
Web 35x72

1 No. V2 1 Ply - 12 kg



TC 35x97
BC 35x97

1 No. V1 1 Ply - 6 kg

Metalwork

30 No. TC-38
4 No. Gable Strap - PFS 1500/100
4 No. Gable Strap Noggins (35x75 TR26 - 1.5m)

Truss Loading:

TC Permanent 0.685 kN/m2
TC Imposed 0.600 kN/m2
BC Permanent 0.250 kN/m2
BC Imposed 0.250 kN/m2

Carcassing

1 No. 60.00m 25 x 100
4 No. 4.20m 47 x 100 TR26 (Treated) Wall/Gutter Plate

Scale: 1:49 Do not scale - if in doubt ask.

Walker Nene Truss Co. is not the Building designer. All dimensions , pitches and loadings must be checked prior to manufacture.

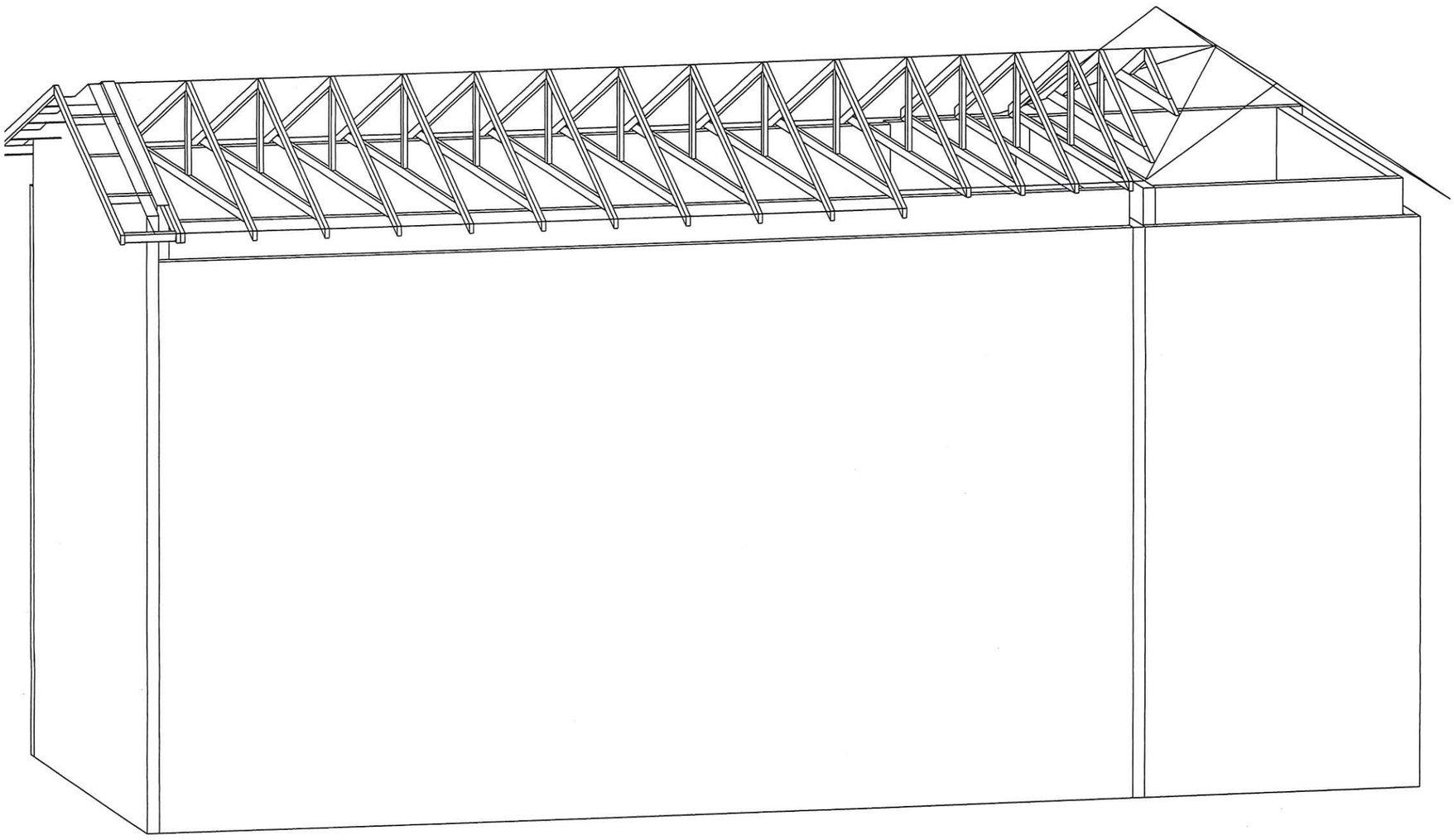
TWALPINE

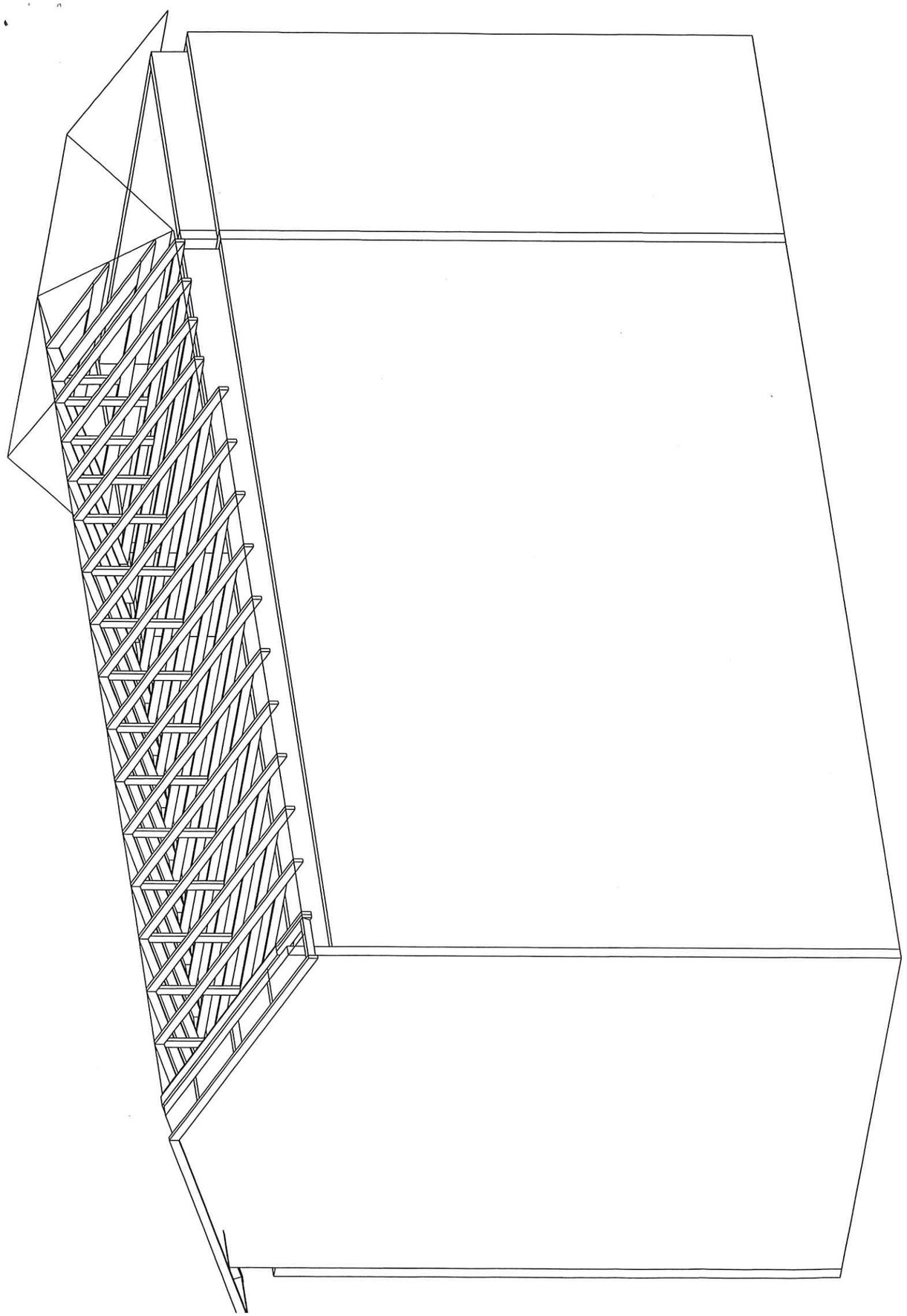
WALKER NENE TRUSS COMPANY
A Division of Swithland Estates Ltd.
Osborne Road, Wisbech,
Cambridgeshire, PE13 3JS
Tel. 01945 582215

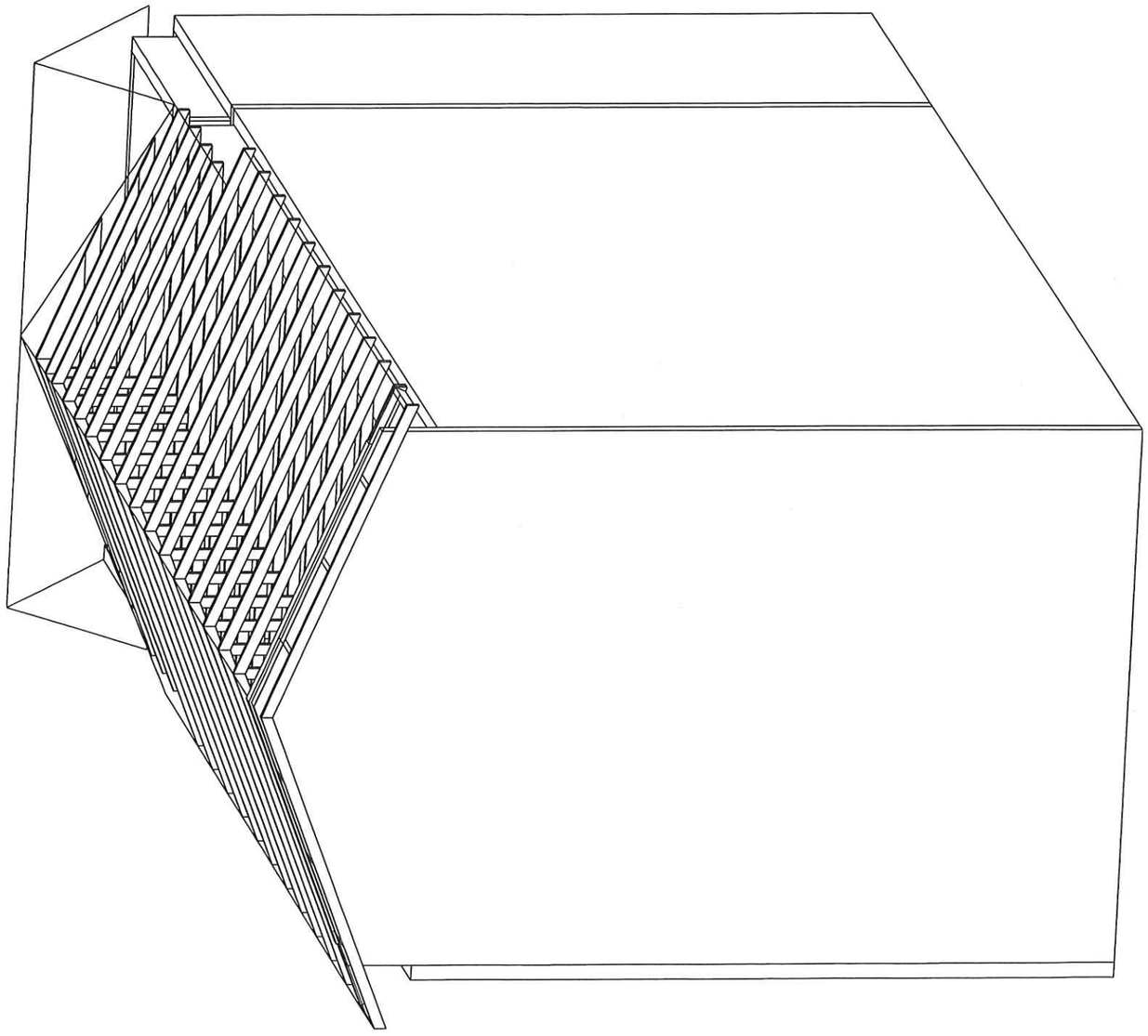
Robert Chapman
Site: New Re-Roof
Address: 154, Bridge Road, Sutton Bridge, Spalding PE12 9SF

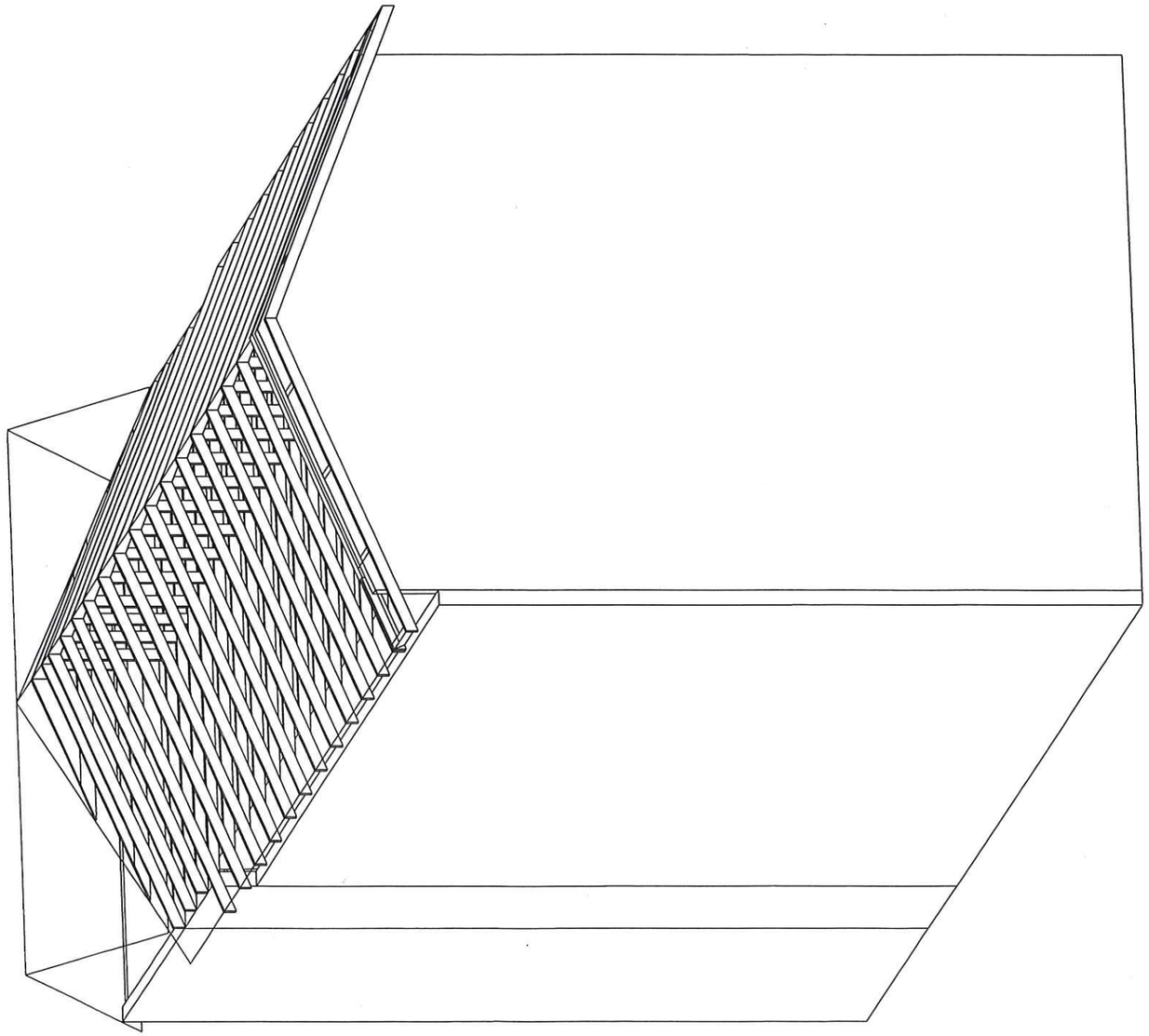
Truss centres: 600
Date: 13/11/2017

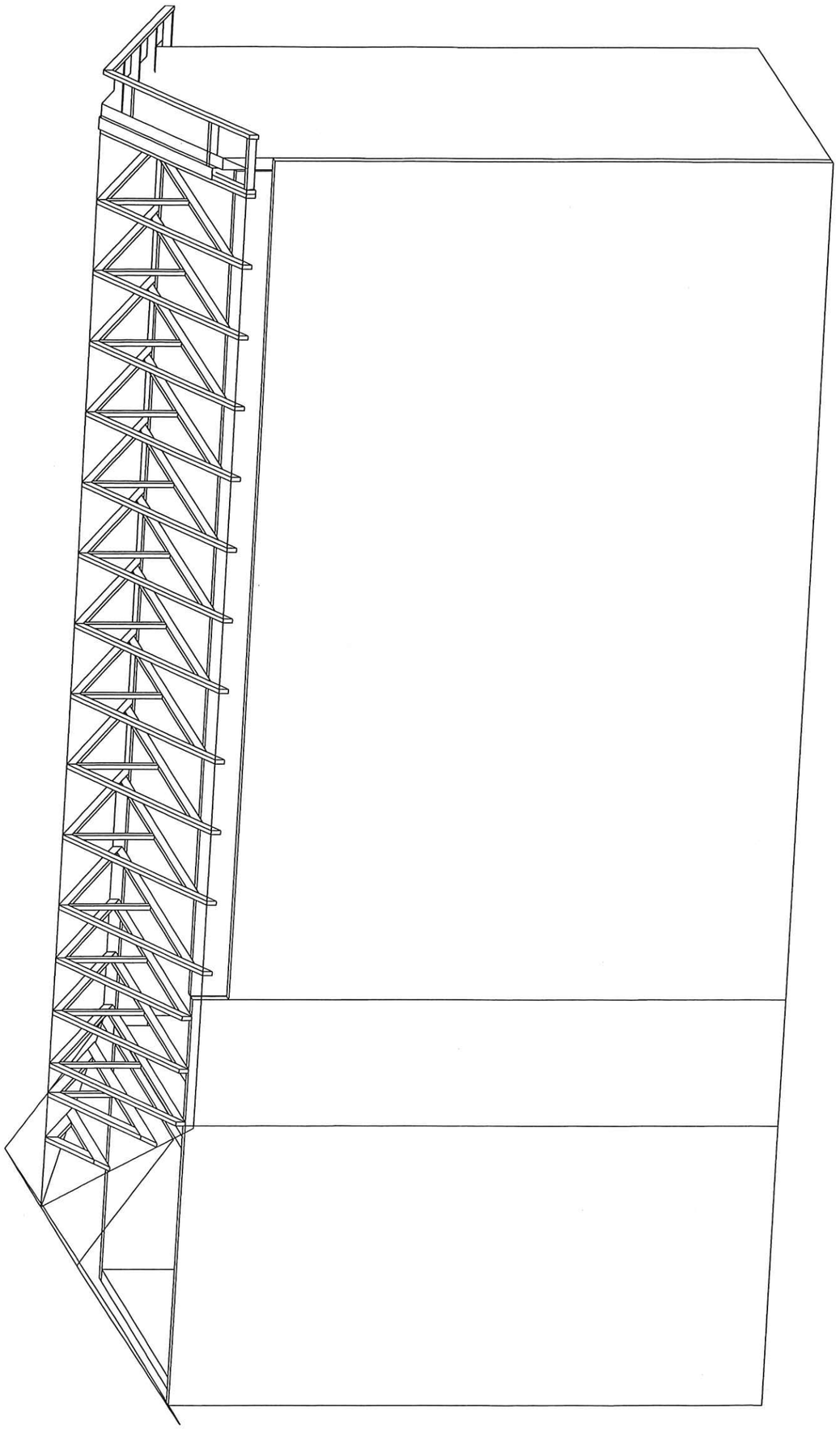
Project No. E23715
Job Title: New Re-Roof

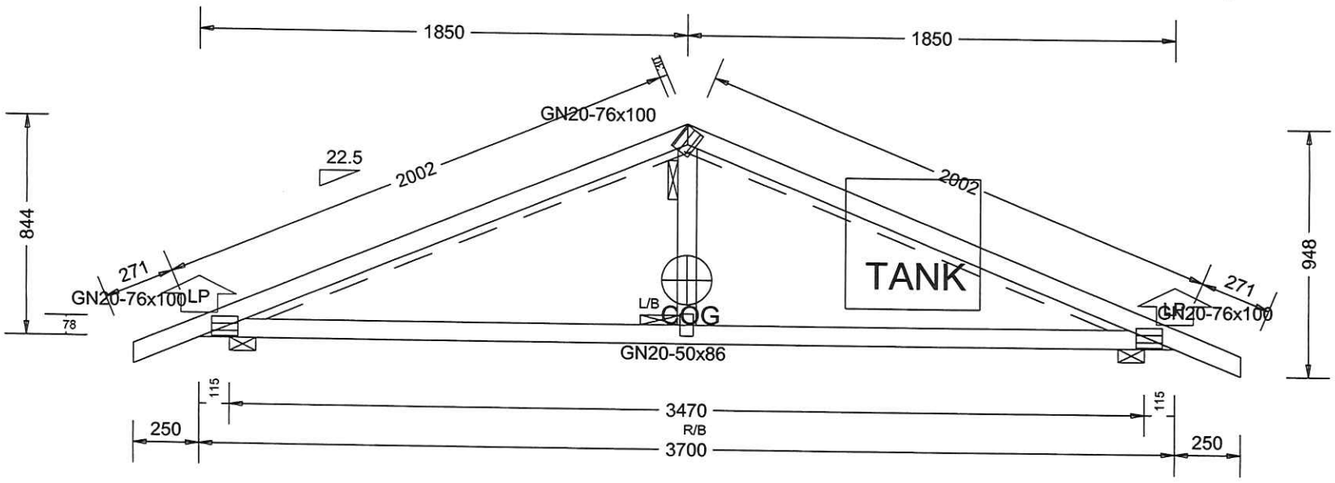












LEFT RAKE = 271
LEFT JIG = 2034
DESC. = T1

15 No. T1

LP Indicates a lifting point.

RIGHT RAKE = 271
RIGHT JIG = 2034
LABOUR UNITS = 84

ITW ALPINE

Ver No. 9.22

TIMBER DETAILS		TRUSS DETAILS	
RAFTERS	35x72 TR26	QUANTITY	15 L/B
		PLY	1
JOISTS	35x72 TR26	WIDTH	35mm
		SPACING	600mm
WEBS	35x72 TR26	TYPE	COMN
		SCALE	1:22.8
		WEIGHT	13.0 kg
		DEAD LOAD	0.685kN/m2
		TREATMENT	NO

WALKER NENE TRUSS COMPANY
A Division of Swithland Estates Ltd.
Osborne Road, Wisbech,
Cambridgeshire, PE13 3JS
Tel. 01945 582215

JOB KEY	E23715 / 24818, Del No:24818
CUSTOMER	Robert Chapman
JOB NAME	New Re-Roof
SITE	New Re-Roof,154, Bridge Road, Sutton Bridge, Spalding PE
TRUSS REF	**T1**
Prepared by:	Rick Fitch
DATE	13-11-2017

ITW ALPINE SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN OR THE SPECIFICATIONS OR ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH BS 5268 & BSEN 14250

ITW ALPINE

Version:9.22

Job Key: 24818

Walker Nene Truss Co.
wisbech

Date:24/02/2015 14:06 | 1
Prepared by: Rick Fitch
Approved by:.....
Order: 24818

Ref: T1 | **Customer:** Robert Chapman

SPAN	LEFT PITCH	RIGHT PITCH	THICKNESS	PLY	CENTRES
3700	22.5	22.5	35	1	600

L HEEL HT	R HEEL HT	WEIGHT / PLY	HT TRANSPORT	HT CEIL/PEAK	QUANTITY	LEFT O/H	RIGHT O/H
78	78	13 kg	947	844	15	0	0

Designed to BS5268:Pt's 2,3 & BS6399:Pt's 1,2,3 for Load cases Long Medium Short with load sharing
Plate positioning tolerance 5 mm

Loading

UNTREATED

	Top Chord	*Bottom Chord*
Dead Load (kN/m²)	0.685 (Slope) 0.741 (Plan)	0.250
Basic Snow (kN/m²)	0.600 Applied (kN/m²) 0.600	0.250
Tank Load (kN)		0.90

Site Altitude 80.0m Wind Criteria: Normal Topography Country Terrain
Eaves Height 5.000m Vb=25m/s Outline=Duo Pitch Roof Applied Pressure Qs=1.173 KN/m²

Summary of Timber Sections

Member	*T/C Restraint : Battens*
Top Chords	72-TR26
Bottom Chords	72-TR26
Webs	72-TR26

Permissible Stresses

TR26 Grade Eused=11000.00 Fb=10.00 Ft= 6.00 Fc= 8.20 Ts= 1.10 Fcp= 2.50 Emin= 7400.00 (N/mm²)

Governing CSI Values

	Member	*Size(mm)*	*CSI(max)*	*@ Location(mm)*	*Axial(kN)*	*Bending(kNm)*	*Load Duration*
Top	T2	72	0.915	2725	-2.929	0.388	Short Term on Roof
Bottom	B1	72	0.656	975	3.362	0.287	Short Term Ceiling
Web	W1	72	0.057	1850	1.101	0.000	Long Term Loading

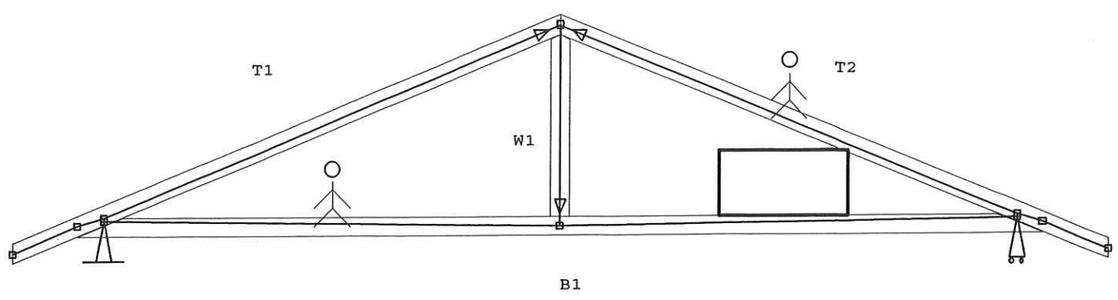
Deflections

Overall Ceiling	(Med Term) =	3.41mm @ 2871mm	Allowable = 0.003 x 3700mm =	11.1mm
Max Node	(Long Term) =	0.83mm @ 1850mm	Allowable =	12.0mm
Max Bay (T/C)	(Long Term) =	4.11mm @ 2658mm	Allowable = 0.004 x 1898mm =	7.6mm
Max Horizontal	(Med Term) =	0.34mm	Allowable =	12.0mm

Bearing Details & Reactions

Loc(mm)	*Min(mm)*	*Long*	*Medium*	*Wind(kN)*	*Loc(mm)*	*Min(mm)*	*Long*	*Medium*	*Wind(kN)*
165	21	1.719	2.475	No Uplift	3535	24	2.159	2.915	No Uplift

LEFT CANT	RIGHT CANT
115	115



Project No: E23715, Job: New Re-Roof, Plot: Roof