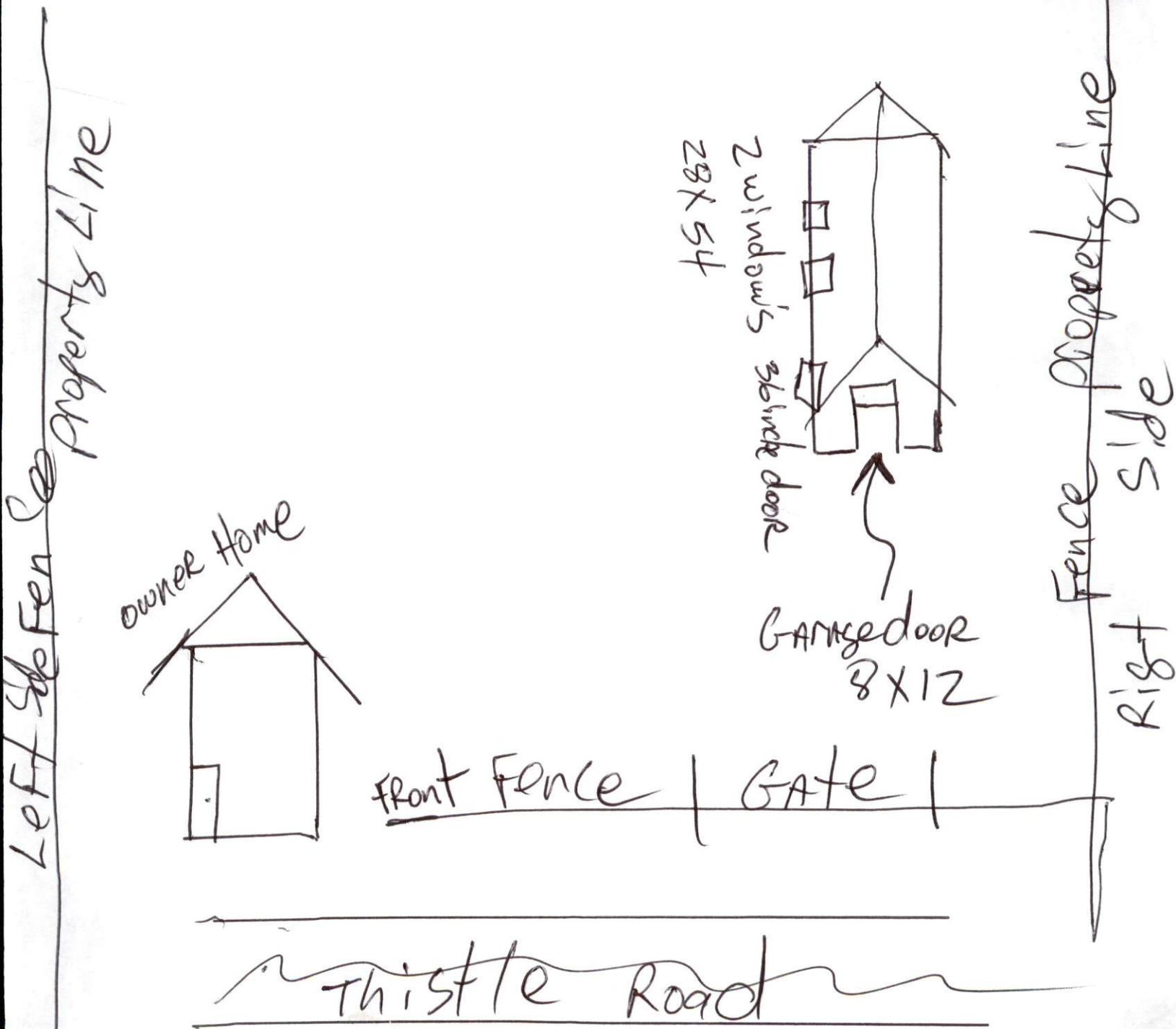


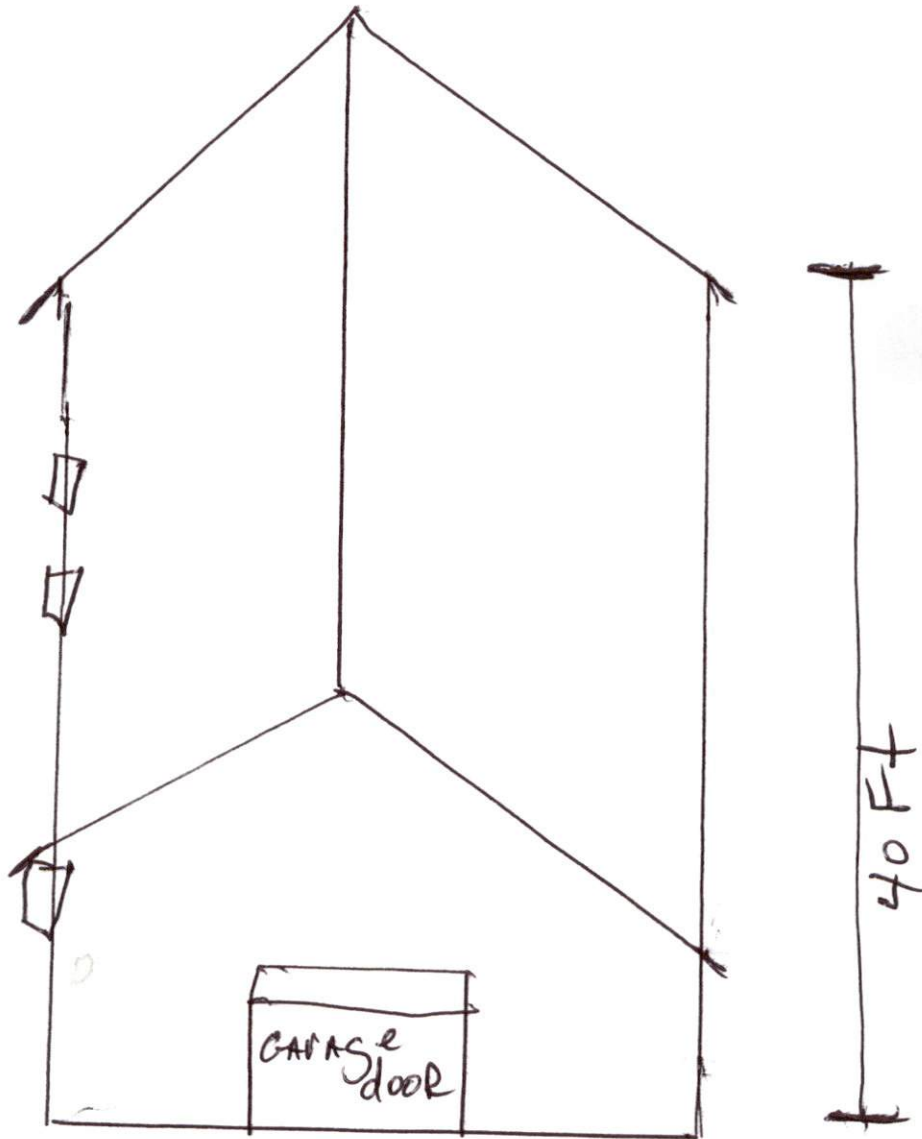
24X40

# Plans for Proposed Garage

BACK Fence Property Line



# PLANS FOR PROPOSED GARAGE 24 X 40



- 2x10 header for entry door & window's
- OSB 7/16 plywood for wall's & roof
- type K with typed joints

- 4/12 engaged TRUSS's 16<sup>inches</sup> o/c
- 2x4x96 stud's for wall's 16<sup>inches</sup> o/c
- 2x8 treated bottom plate's with bolts & nut's, washers
- LVL for garage header
- GALVAnized

167 thistle Ct.

## Plan's For Proposed Garage

- monolithic slab, 24x40 24ft wide + 40ft Long
- app. 24 inches total around edges for wall's 12 inches wide, 12 inches below + 12 inches above the ground
- At least 4 inches in center with wire mesh, bolt's spaced out equally around edges for wall's
- treated plate 2x8x16's under wall's
- 2x4x16 TOP + Bottom plate's
- 2x4x8ft for wall's 16 inches apart o/c
- OSB plywood 7/16 wall's + Roof
- Tyvek on wall's + Gables
- 12 inch overhang
- vinyl siding + soffit
- ~~tar~~ tarpaper, Architecture (Black) Shingles on Roof drips + Aluminum Fascia metal
- 2x10 for header's for ~~door~~ entry door 36x80 + window's
- 2x10x16 for Garage door header
- hurricane clips on every truss
- 3/8 plywood for ceiling one access door opening
- engineered TRUSS'S for Roof 16 inch o/c + ceiling with 4/12 pitch + 12 inch overhang



**Trenco**

818 Soundside Rd  
Edenton, NC 27932

Re: S230034-R  
STOCK 24' UPDATE 2024

Truss engineering Co  
(252) 482-7000

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Deals Metals.

Pages or sheets covered by this seal: 163508496 thru 163508496

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



February 8, 2024

Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

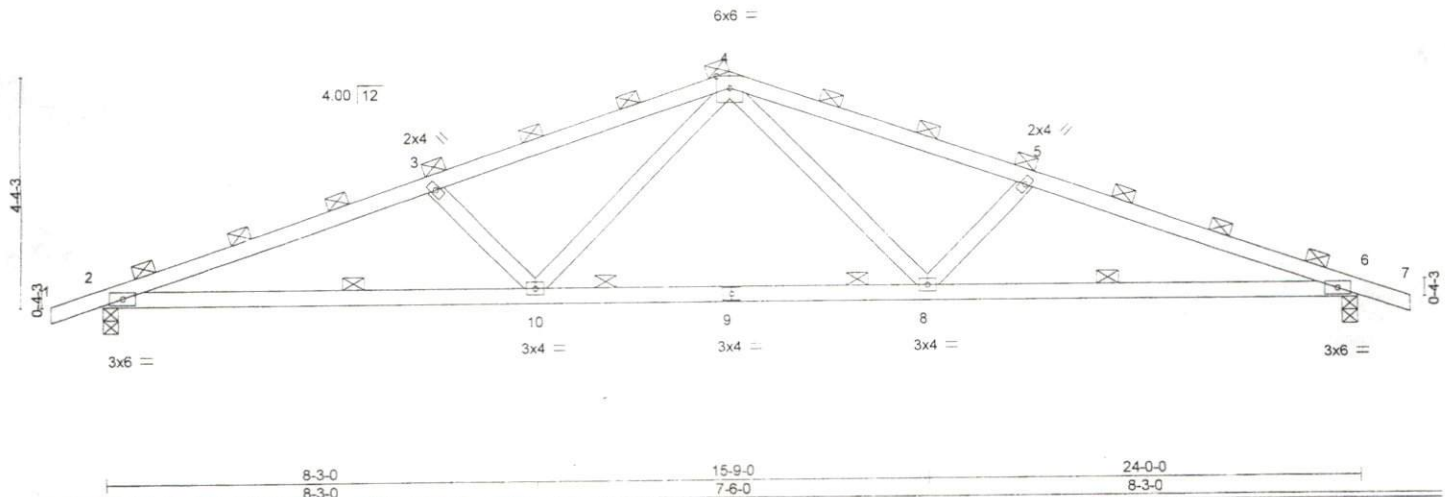
Job	Truss	Truss Type	Qty	Ply	STOCK 24" UPDATE 2024	163508496
S230034-R	T01	FINK	1	1	Job Reference (optional)	

Deals Metal, Statesville, NC - 28625,

8 430 s Jan 6 2022 MiTek Industries, Inc. Wed Feb 7 15:33:44 2024 Page 1  
ID\_cBVGHgesQrUn4aZea0bsEz64Hq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?i

-1-0-0	6-4-8	12-0-0	17-7-8	24-0-0	25-0-0
1-0-0	6-4-8	5-7-8	5-7-8	6-4-8	1-0-0

Scale = 1:41.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL) -0.20	8-16	>999	360	MT20	244/190
TCDL 5.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.34	8-16	>837	240		
BCLL 0.0	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.09	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-MR	Wind(LL) 0.14	10-13	>999	240		
							Weight: 101 lb	FT = 0%

#### LUMBER-

TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.1

#### BRACING-

TOP CHORD 2-0-0 oc purlins (2-7-13 max.).  
BOT CHORD 6-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=-113(LC 9)  
Max Uplift 2=-443(LC 4), 6=-443(LC 5)  
Max Grav 2=1540(LC 1), 6=1540(LC 1)

#### FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3433/880, 3-4=-3012/760, 4-5=-3012/760, 5-6=-3433/881  
BOT CHORD 2-10=-824/3205, 6-10=-436/2177, 6-8=-732/3205  
WEBS 3-10=-677/349, 4-10=-235/919, 4-8=-236/919, 5-8=-677/349

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=443, 6=443.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



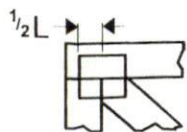
**WARNING -** Verify design parameters and READ NOTES ON THIS AND INCLUDED MITK REFERENCE PAGE MII-7473 rev. 1/2-2023 BEFORE USE  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacompoments.com)

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

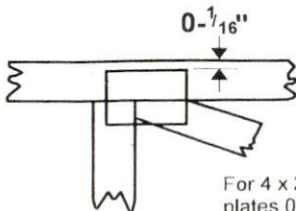


# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING

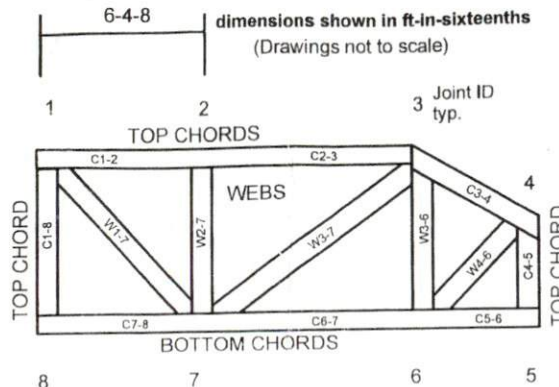


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

# Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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**MiTek**  
ENGINEERING BY  
**TRENCO**  
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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.