

WTCA Standard Details

CONTENTS

1.0 INTRODUCTION	1
2.0 NOTICE	1
3.0 WARNINGS	1
4.0 STRUCTURAL DETAILS	1



Wood Truss Council of America

One WTCA Center
6300 Enterprise Lane • Madison, WI 53719
608/274-4849 • 608/274-3329 fax
www.woodtruss.com • wtca@woodtruss.com

1.0 INTRODUCTION

The Wood Truss Council of America makes these Structural Details available to architects, engineers, contractors, designers, code enforcement officials and others involved in construction applications using metal plate connected wood trusses (MPCWT). WTCA hopes that these details will be of value, save time in the design process, and educate those in the proper application of MPCWT. Users are also vreferred to WTCA's Metal Plate Connected Wood Truss Handbook for additional information on the design and use of MPCWT in construction. If you have any comments or suggestions contact the WTCA staff.

2.0 Notice

The details contained in these files have been provided to the Wood Truss Council of America by sources believed to be reliable. However, neither the Wood Truss Council of America nor its members guarantees the accuracy or completeness of any information here, and neither the Wood Truss Council of America nor its members shall be responsible for any errors or omissions or for damages of any kind arising out of or related to the use of the information contained herein.

These Standard Details are distributed with the understanding that the Wood Truss Council of America is supplying information, but not attempting to render engineering or other professional services. If such services are required, the assistance of an appropriate professional should be sought.

All Rights Reserved. Users are free to incorporate these details into their own designs, yet the Wood Truss Council of America expressly forbids the reselling of these drawings in their original state. These drawings may be distributed freely, as long as they are distributed in their original form, with the readme file included intact.

3.0 WARNINGS

The details contained in these files may not be applicable for every application. The user is responsible for determining the suitability of a particular detail for the specific application. Each individual truss design drawing indicates the minimum required bearing for the truss based on the design conditions indicated on the drawing. The adequacy of the support member to support the truss is the responsibility of others. Roof and Floor bearing details do not show connection for anchorage, which may be required. Review each truss design drawing for additional notes and warnings.

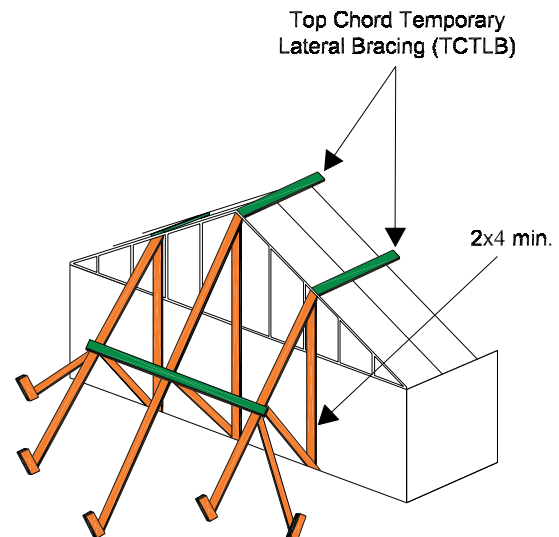
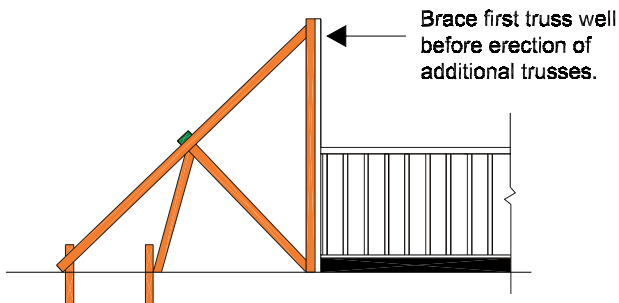
4.0 Structural Details

Ground Bracing Detail

from the BCSI 1-03 booklet and BCSI-B1 Summary Sheet.

Ground Bracing

Locate ground braces for first truss directly in line with all rows of top chord temporary lateral bracing.

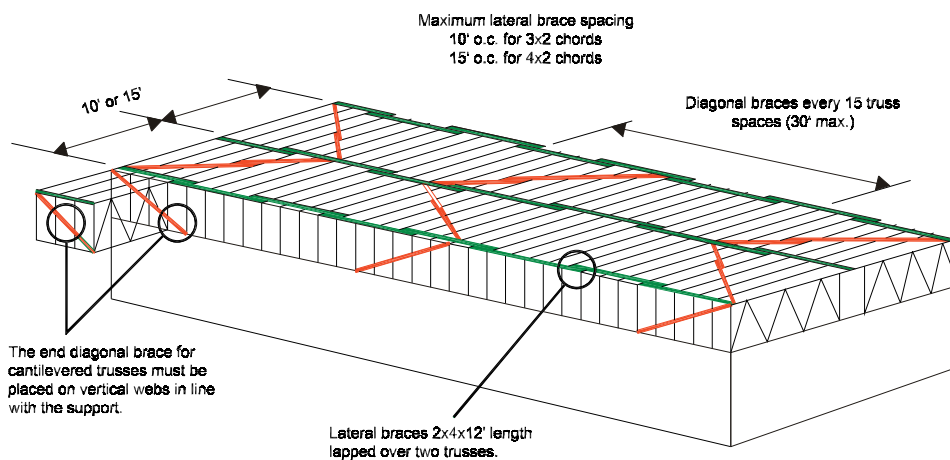


For information on safe handling, installing and temporary bracing refer to the guidelines provided by the Truss Manufacturer or contact the Wood Truss Council of America (WTCA) 608/274-4849 or www.woodtruss.com.

Temporary Bracing for Parallel Chord Trusses

shows bracing recommendations for trusses built in the 4x2 orientation. From the BCSI booklet and B1 Summary Sheet

Temporary Bracing For 3x2 And 4x2 Parallel Chord Trusses



For information on safe handling, installing and temporary bracing refer to the guidelines provided by the Truss Manufacturer or contact the Wood Truss Council of America (WTCA) 608/274-4849 or www.woodtruss.com.

Temporary Bracing for Pitched Trusses

shows the three bracing planes and lateral bracing options. From the BCSI booklet and B1 Summary Sheet.

Temporary Bracing For Three Planes of Roof

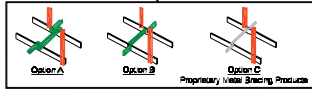
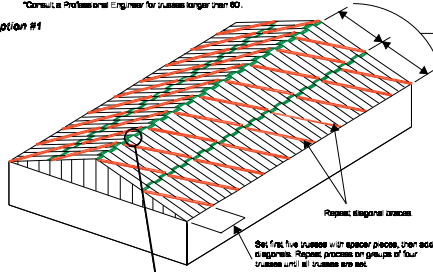
Note: This bracing method is for all trusses except 3x2 and 4x2 parallel chord trusses.

1) Top Chord

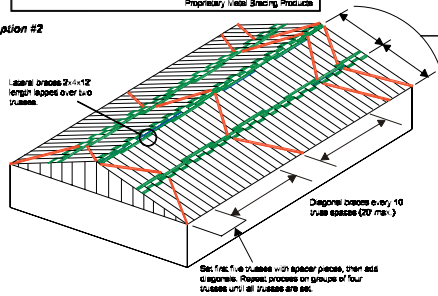
Truss Span	Top Chord Temporary Lateral Brace (TCLB) Spacing
Up to 30'	10' o.c. max.
30' to 45'	8' o.c. max.
45' to 60'	6' o.c. max.
60' to 80'	4' o.c. max.

*Consult a Professional Engineer for trusses larger than 80'.

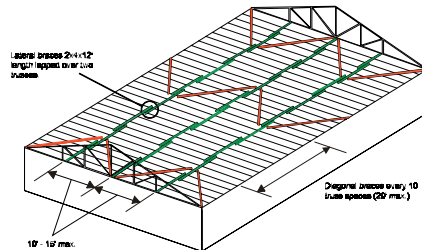
Option #1



Option #2

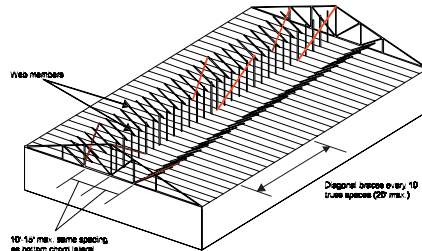


2) Bottom Chord



Some chord and web members not shown for clarity.

3) Web Member Plane



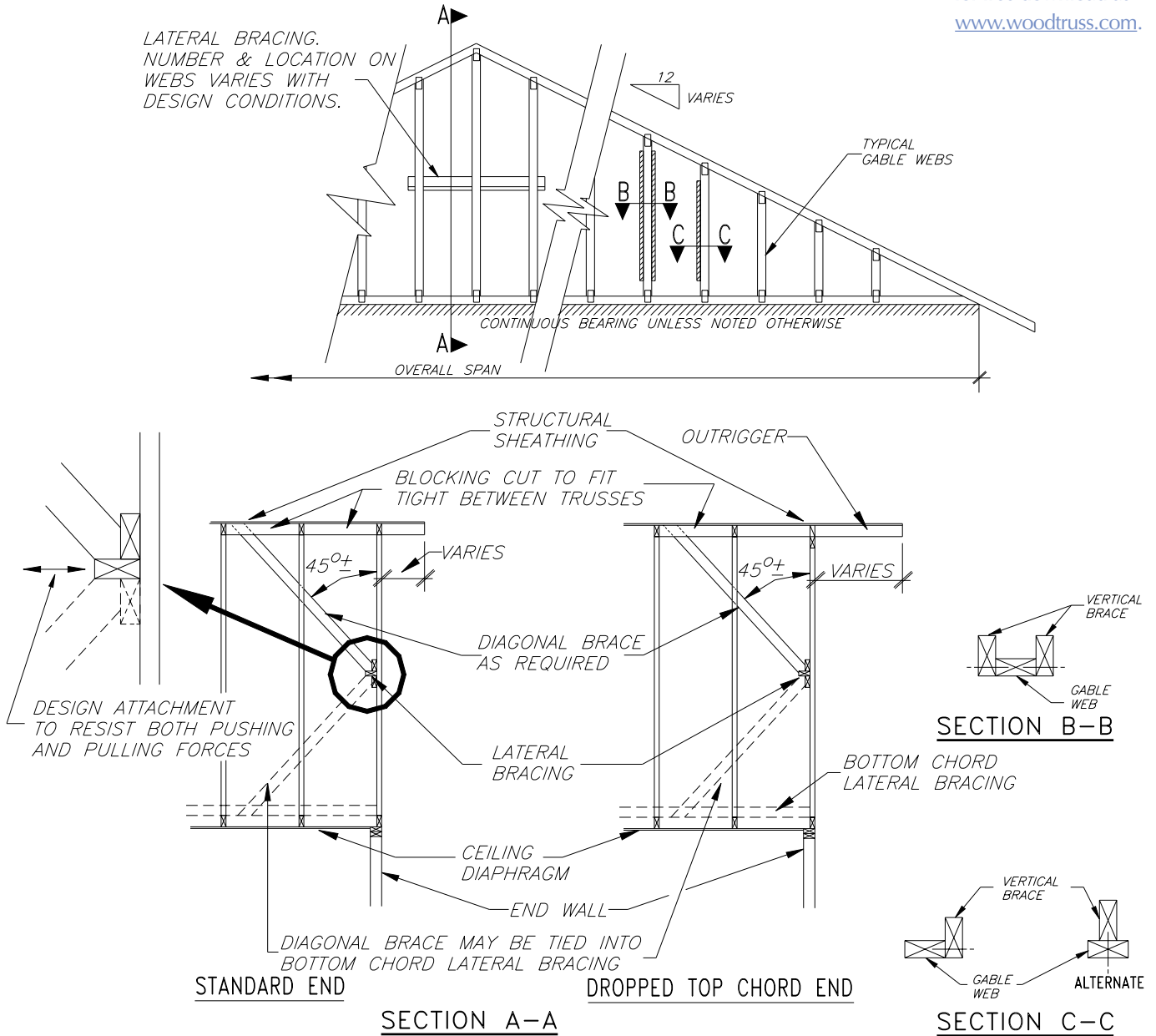
Some chord and web members not shown for clarity.

For information on safe handling, installing and temporary bracing refer to the guidelines provided by the Truss Manufacturer or contact the Wood Truss Council of America (WTCA) 808/274-4849 or www.woodtruss.com

WTCA STANDARD DETAILS

Gable End Bracing

Figure 16.8.23 WTCA standard industry detail for gable end bracing. Available for free download at www.woodtruss.com.



NOTES:

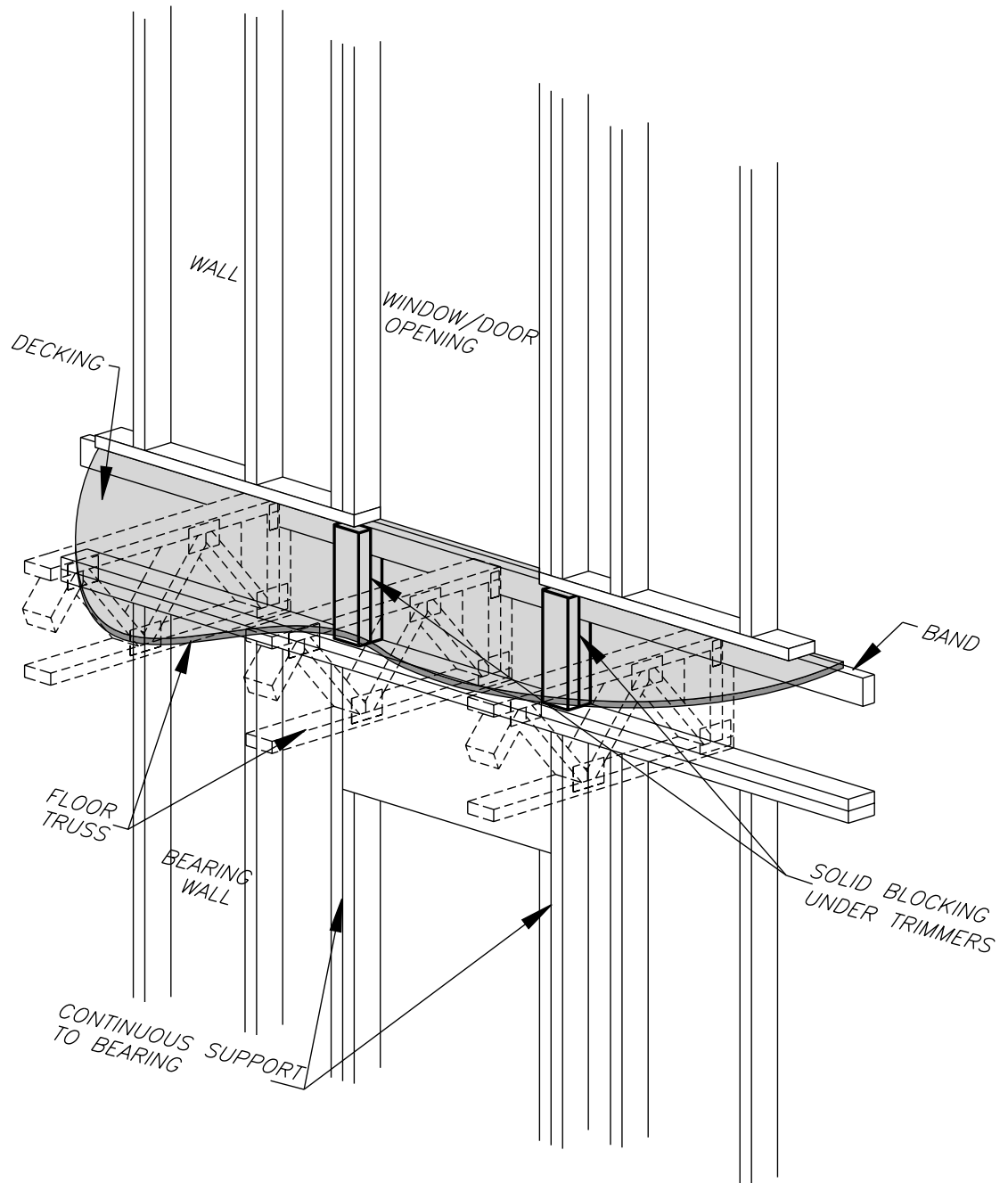
- 1) ACTUAL BRACING REQUIREMENTS WILL VARY DUE TO WIND LOAD, CODE CRITERIA, BUILDING HEIGHT, TRUSS SPAN, WEB LUMBER GRADE/SPECIES/ON CENTER SPACING AND OTHER VARIABLES. BRACING (AND ATTACHMENT) REQUIREMENTS SHOULD BE DESIGNED FOR EACH SPECIFIC JOB.
- 2) CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL, AS WELL AS THE DESIGN AND SPECIFICATION OF TEMPORARY AND PERMANENT BRACING OF THE ROOF SYSTEM IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

Figure 16.8.23

WTCA STANDARD DETAILS

Blocking at Wall Type "A"

Figure 16.8.24 WTCA standard industry detail: Blocking at Wall Type "A". Available for free download at www.woodtruss.com.



BLOCKING IN FLOOR SPACE @
END BEARING TRUSS w/ BAND

Figure 16.8.24

WTCA STANDARD DETAILS

Blocking at Wall Type "B"

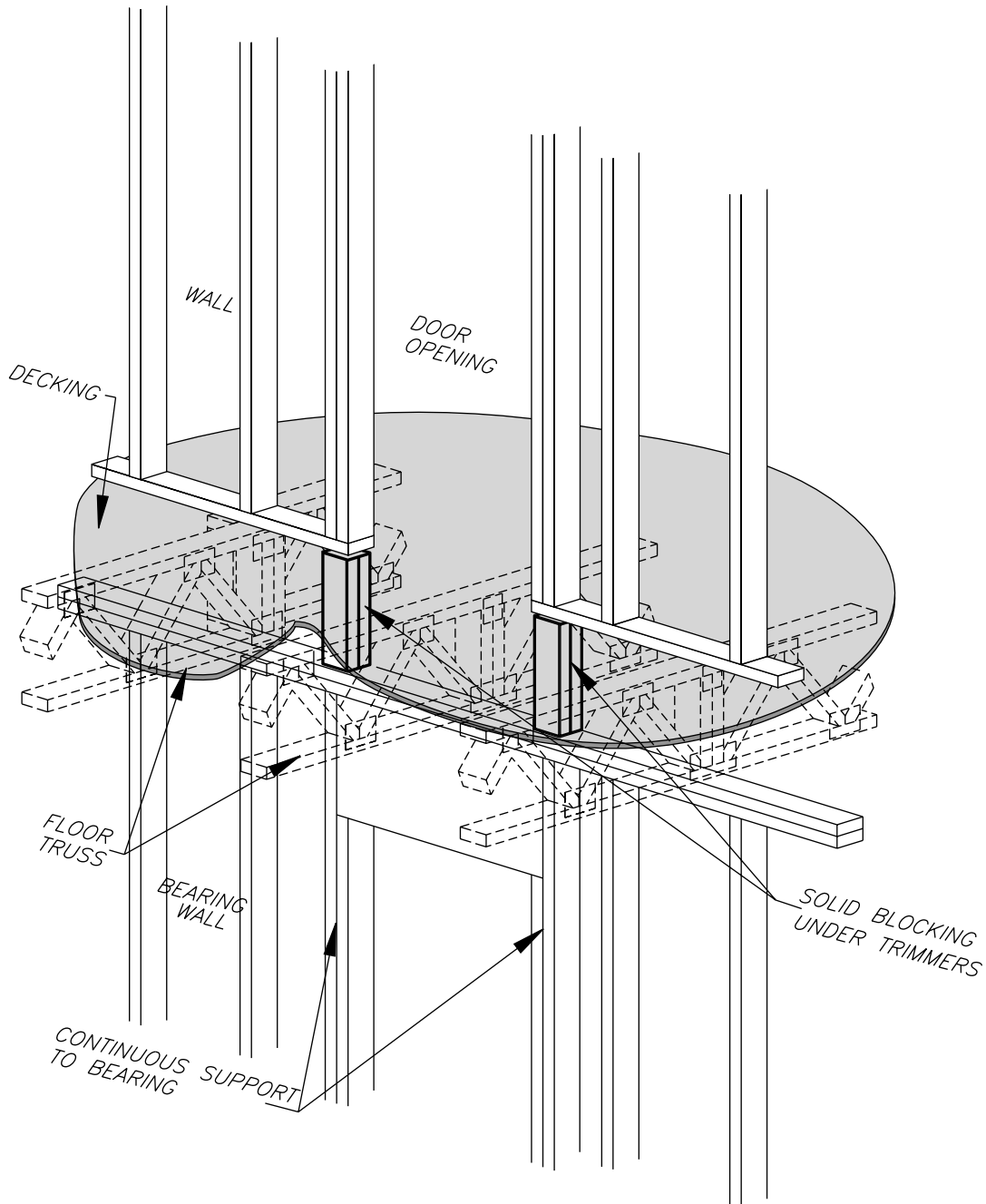


Figure 16.8.25 WTCA standard industry detail: Blocking at Wall Type "B". Available for free download at www.woodtruss.com.

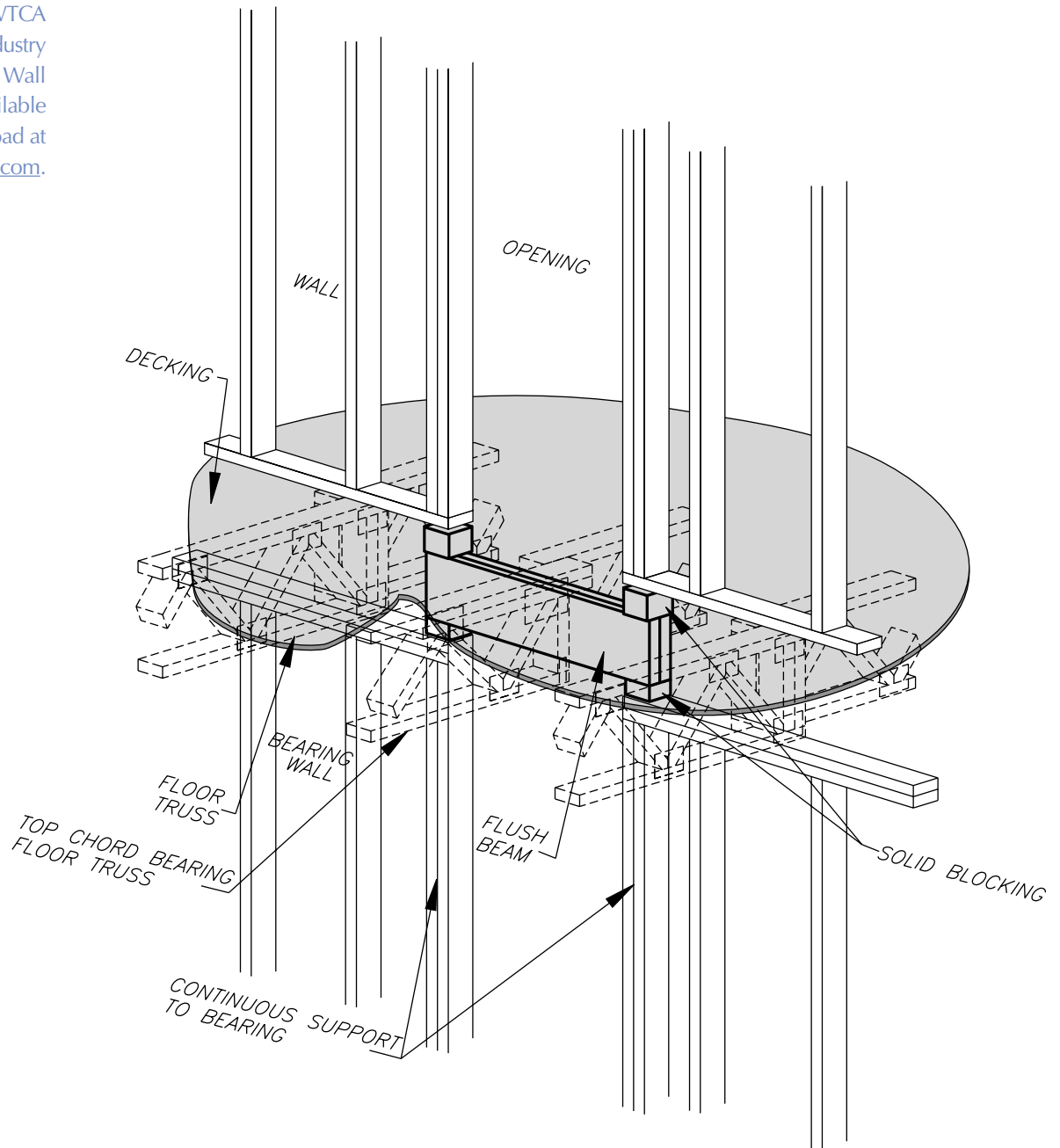
BLOCKING IN FLOOR SPACE @ INTERIOR BEARING CONDITION

Figure 16.8.25

WTCA STANDARD DETAILS

Blocking at Wall Type "C"

Figure 16.8.26 WTCA standard industry detail: Blocking at Wall Type "C". Available for free download at www.woodtruss.com.



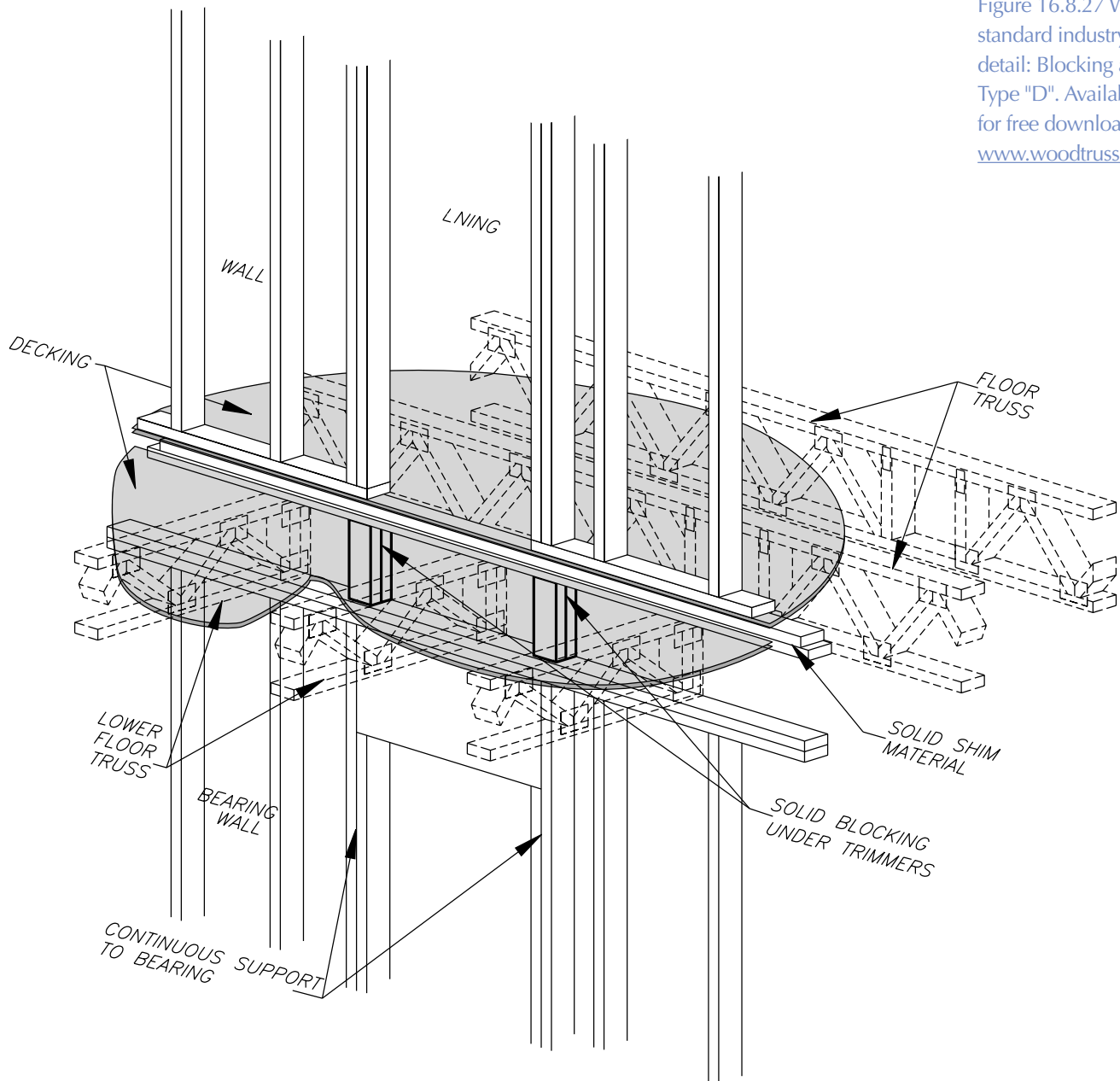
BLOCKING IN FLOOR SPACE @ INTERIOR BEARING CONDITION

Figure 16.8.26

WTCA STANDARD DETAILS

Blocking at Wall Type "D"

Figure 16.8.27 WTCA standard industry detail: Blocking at Wall Type "D". Available for free download at www.woodtruss.com.



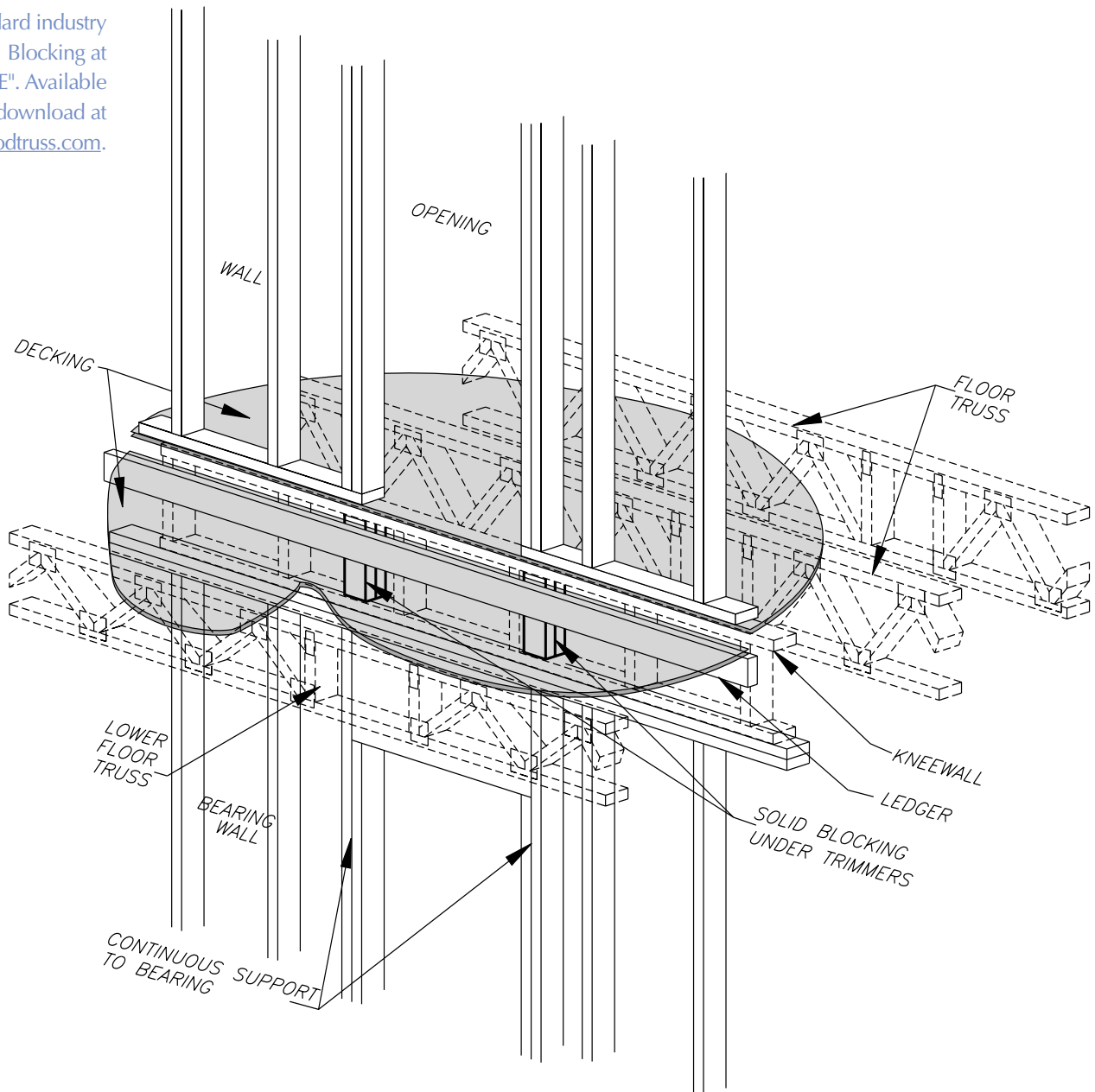
BLOCKING IN FLOOR SPACE @ FLOOR ELEVATION CHANGE

Figure 16.8.27

WTCA STANDARD DETAILS

Blocking at Wall Type "E"

Figure 16.8.28 WTCA standard industry detail: Blocking at Wall Type "E". Available for free download at www.woodtruss.com.



**BLOCKING IN FLOOR SPACE @
FLOOR ELEVATION CHANGE**

Figure 16.8.28

WTCA STANDARD DETAILS

Roof

Figure 16.8.29 WTCA standard industry details: Roof. Available for free download at www.woodtruss.com.

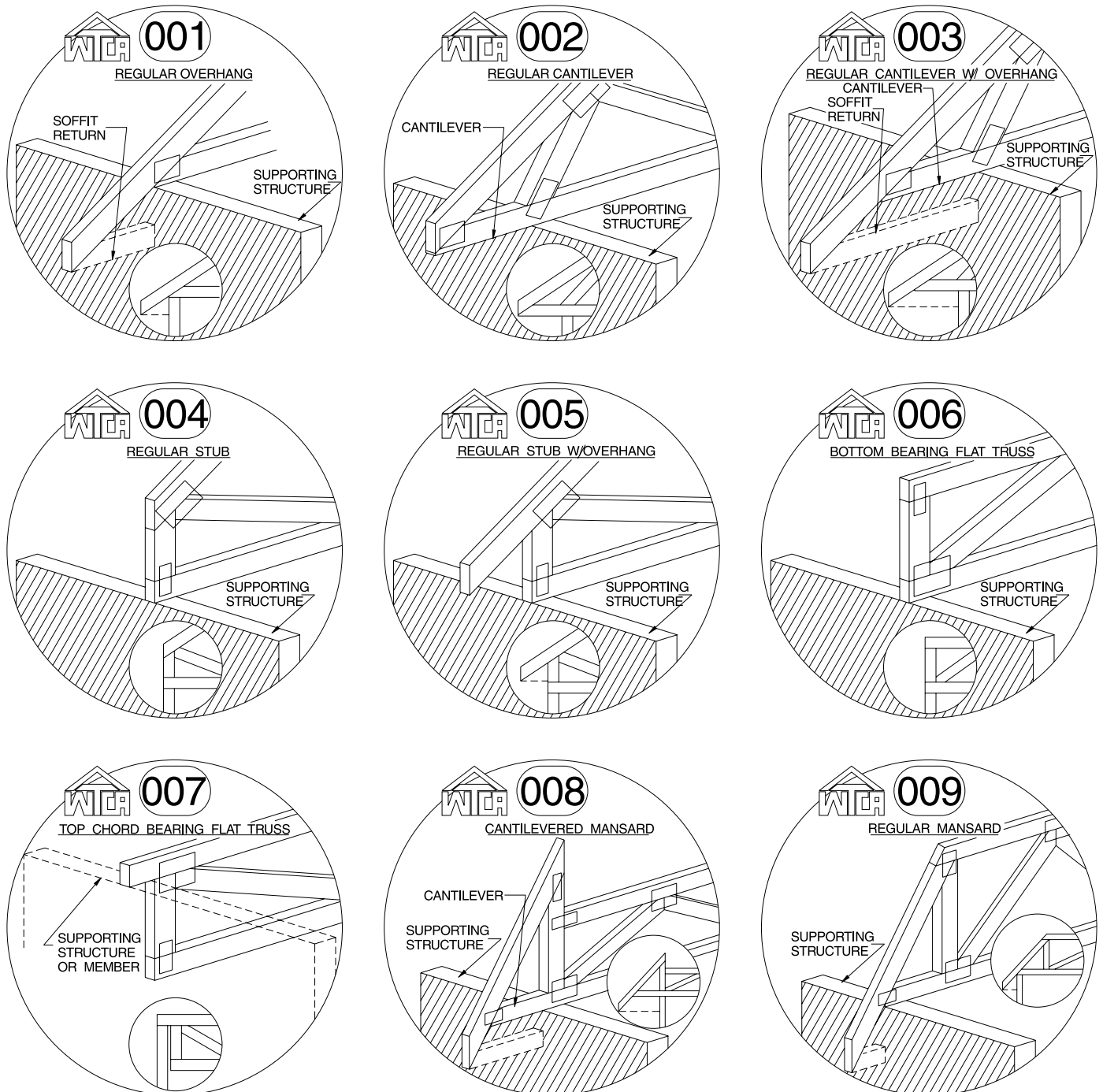
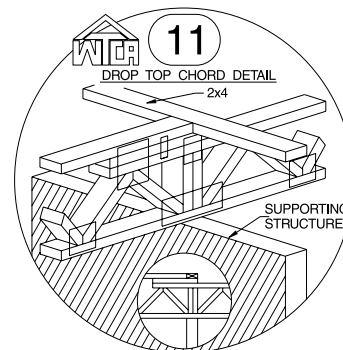
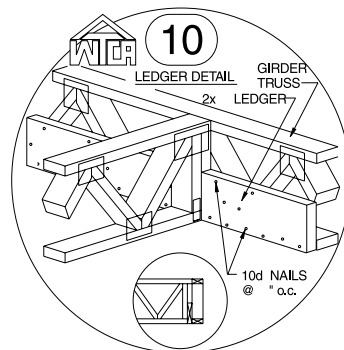
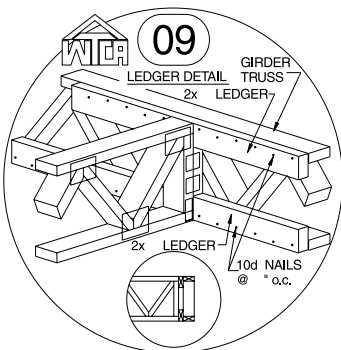
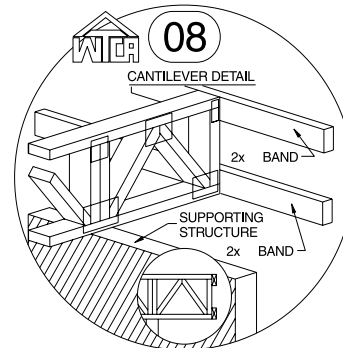
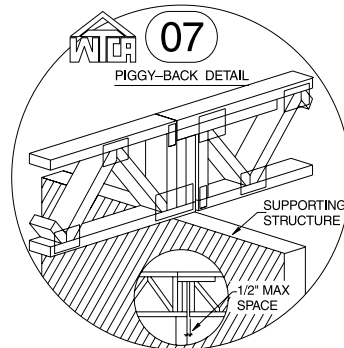
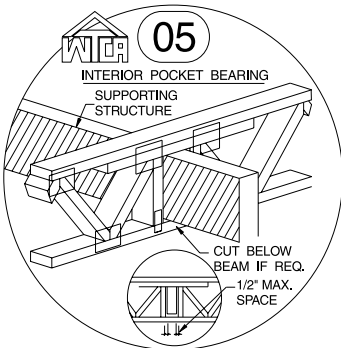
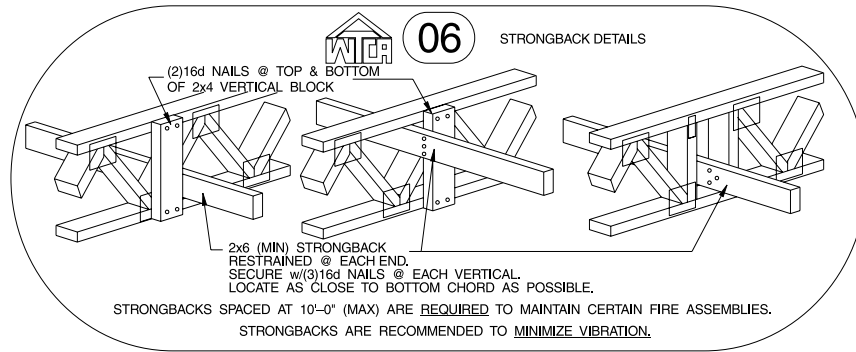
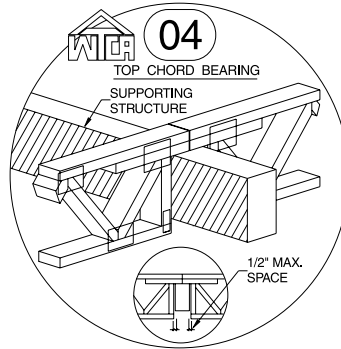
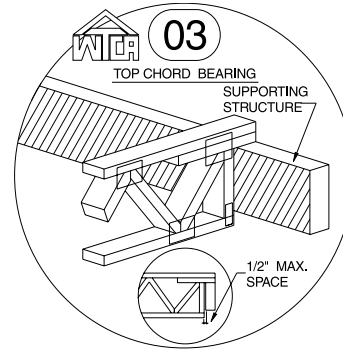
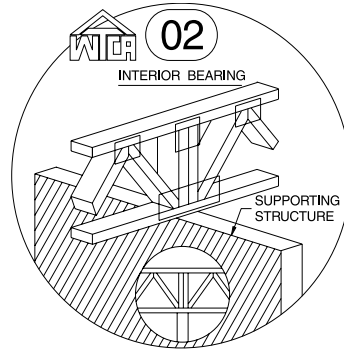
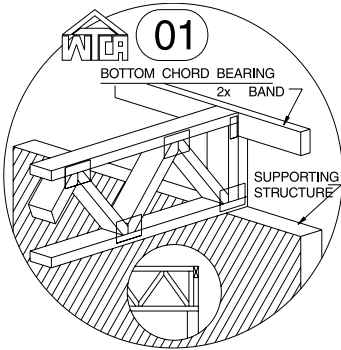
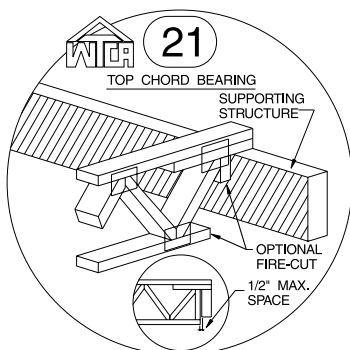
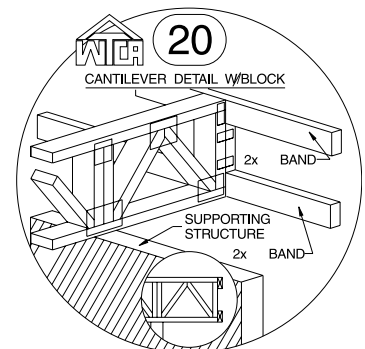
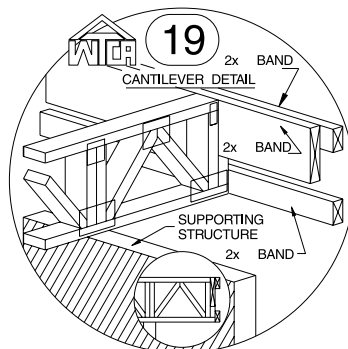
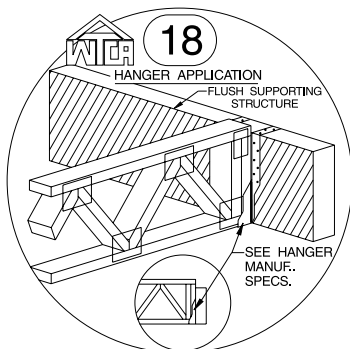
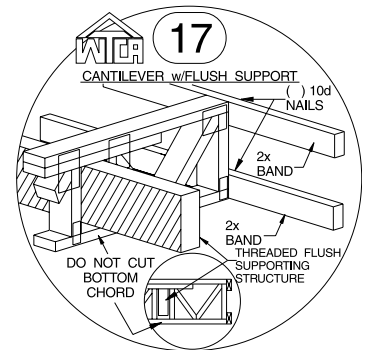
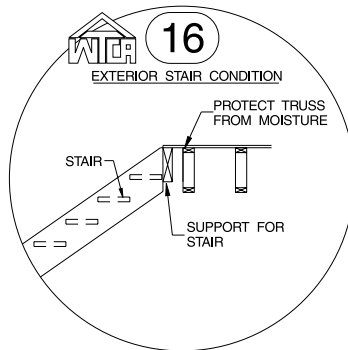
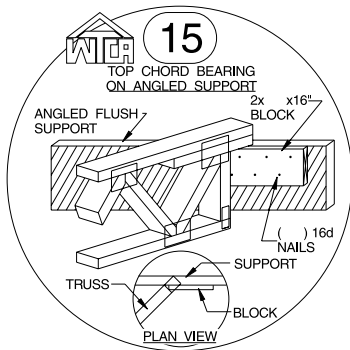
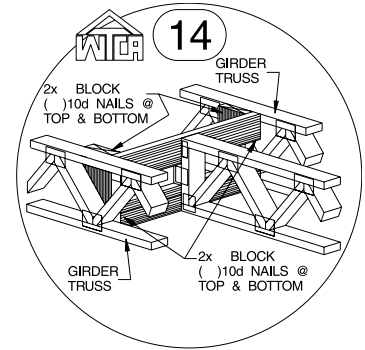
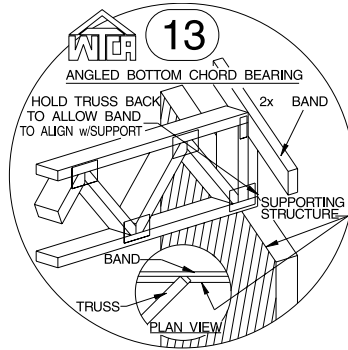
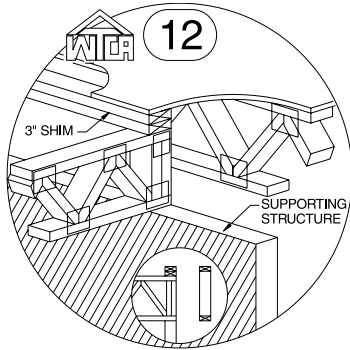


Figure 16.8.29

WTCA STANDARD DETAILS Floor



WTCA STANDARD DETAILS Floor



WTCA STANDARD DETAILS

Hanger Hardware

Figure 16.8.33 WTCA standard industry details: Hanger Hardware. Available for free download at www.woodtruss.com.

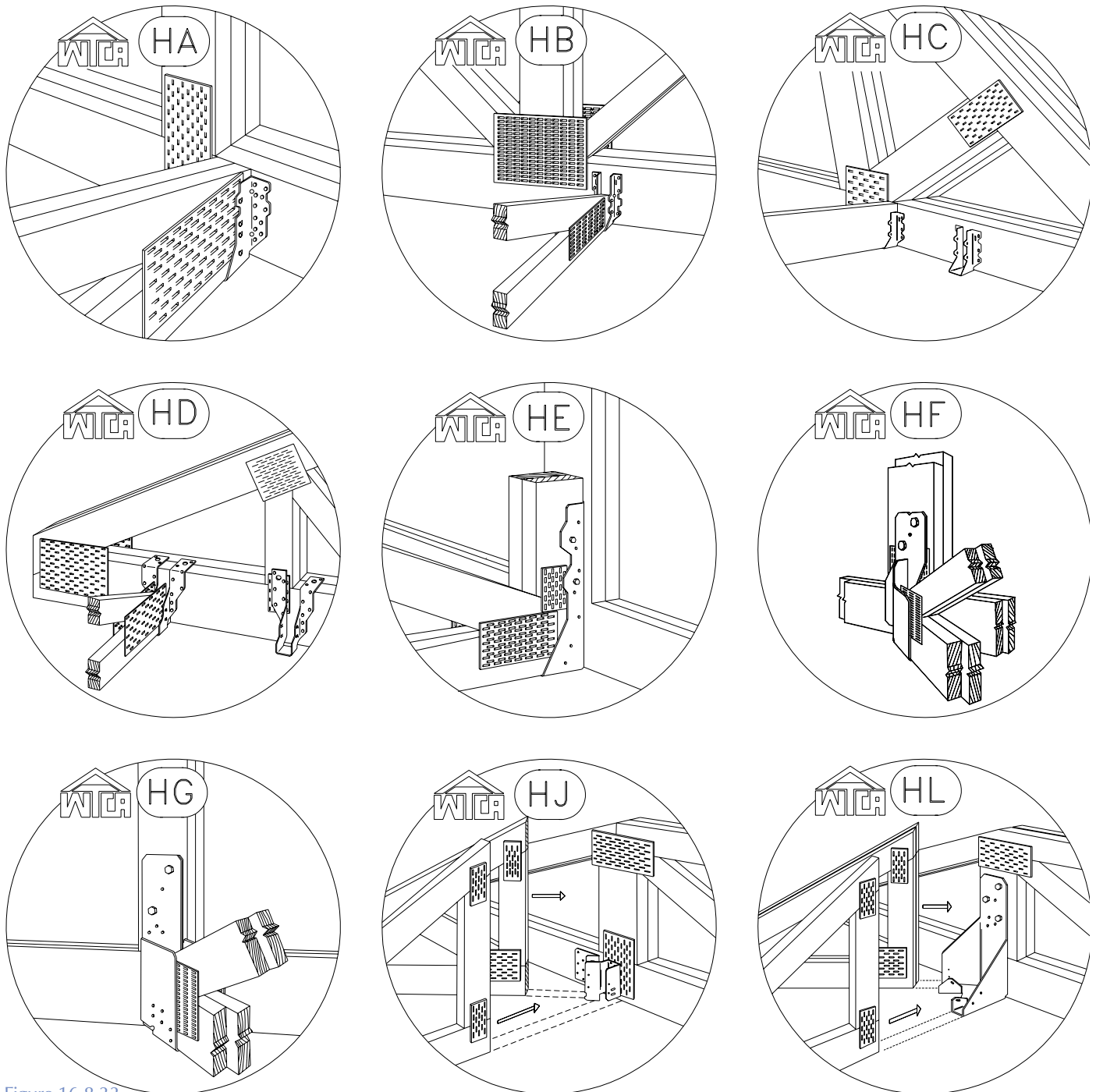


Figure 16.8.33

WTCA STANDARD DETAILS

Hanger Hardware (cont.)

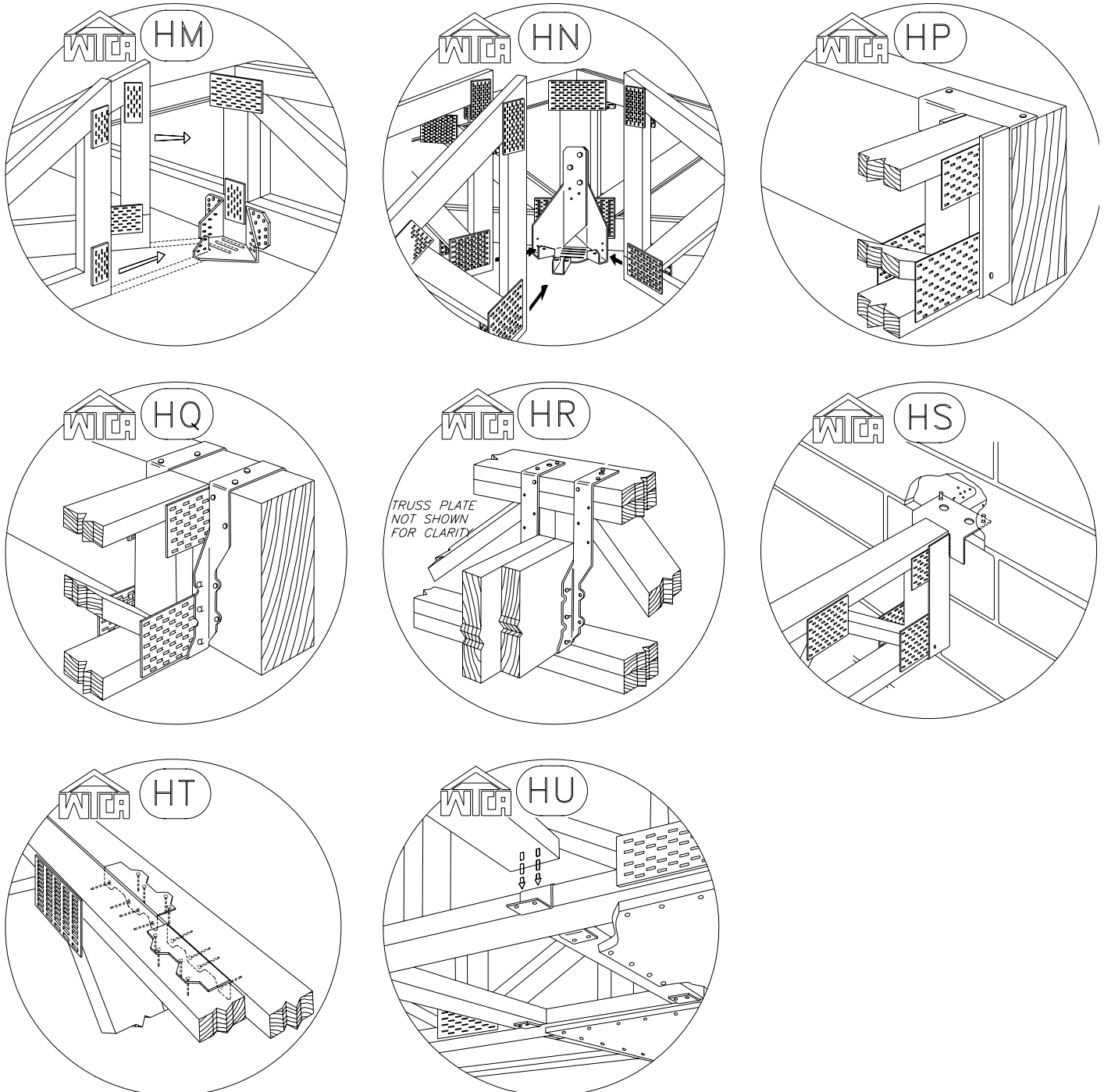


Figure 16.8.33 (cont.)

WTCA STANDARD DETAILS

Masonry Hold-Down Hardware

Figure 16.8.34 WTCA standard industry details: Masonry Hold-Down Hardware. Available for free download at www.woodtruss.com.

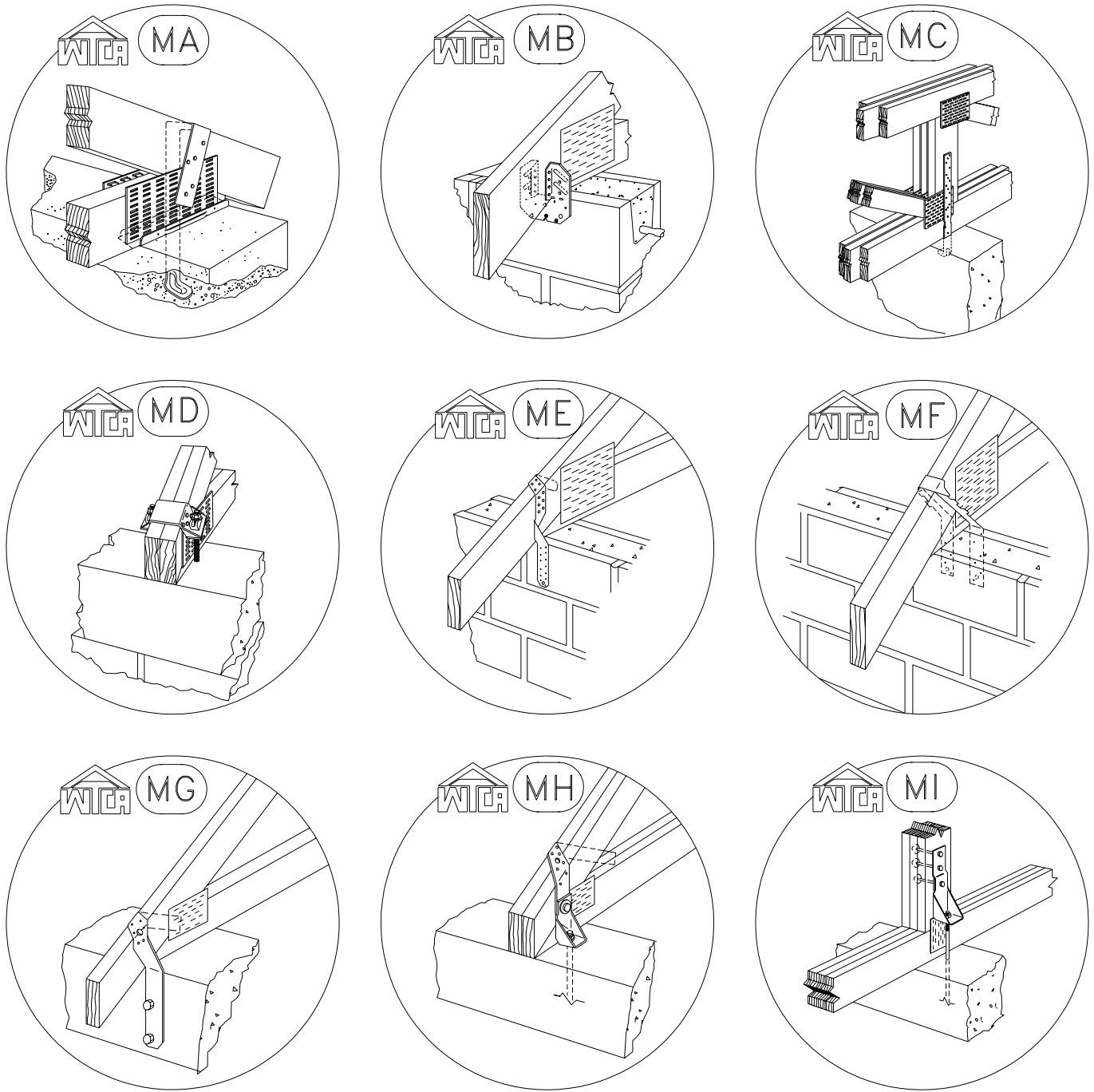
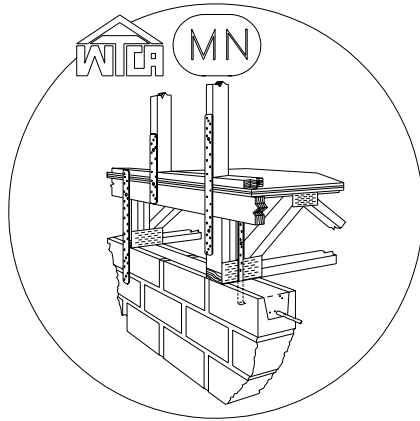
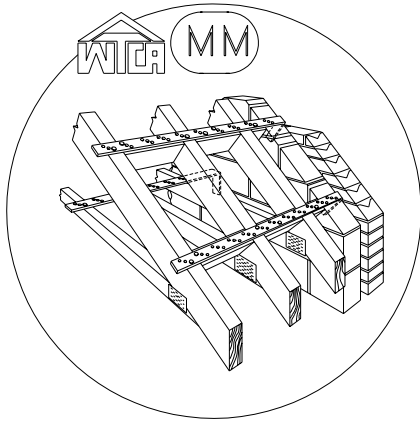
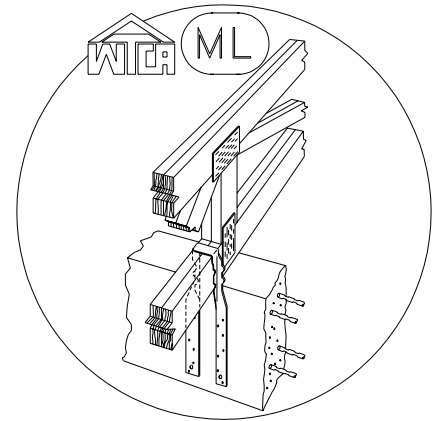
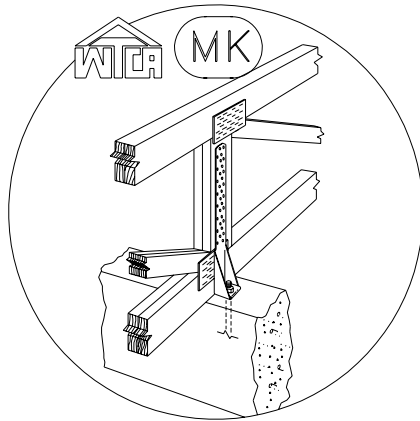
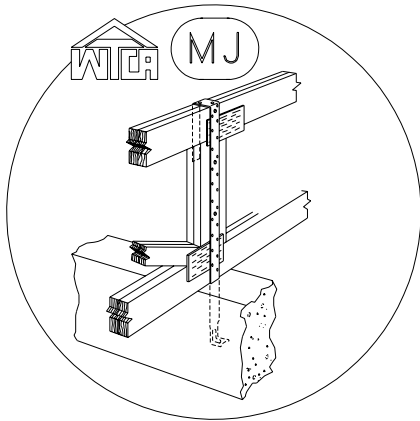


Figure 16.8.34

WTCA STANDARD DETAILS

Masonry Hold-Down Hardware (cont.)



WTCA STANDARD DETAILS Wood Hold-Down Hardware

Figure 16.8.36 WTCA standard industry details: Wood Hold-Down Hardware. Available for free download at www.woodtruss.com.

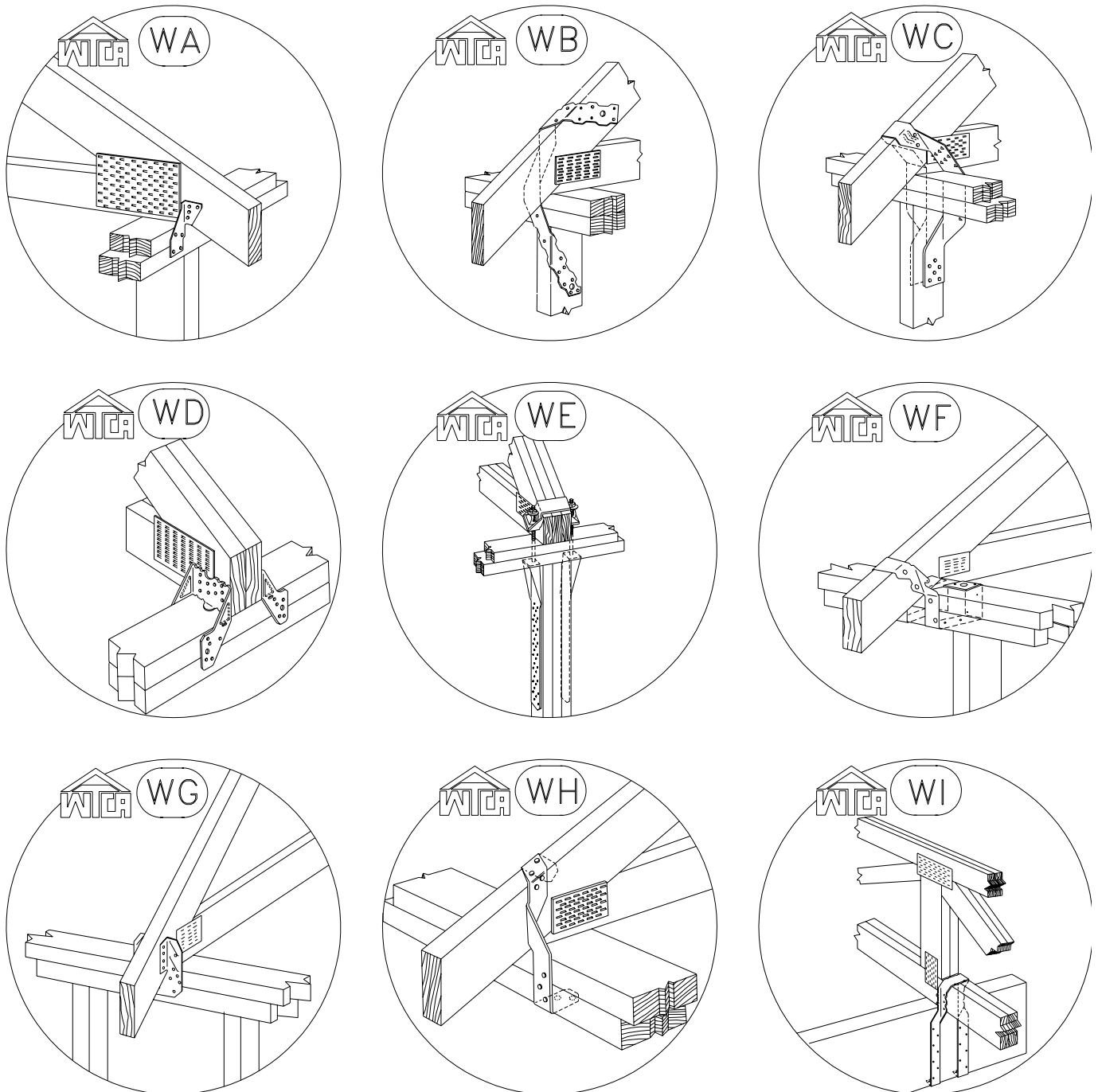


Figure 16.8.36

WTCA STANDARD DETAILS

Wood Hold-Down Hardware (cont.)

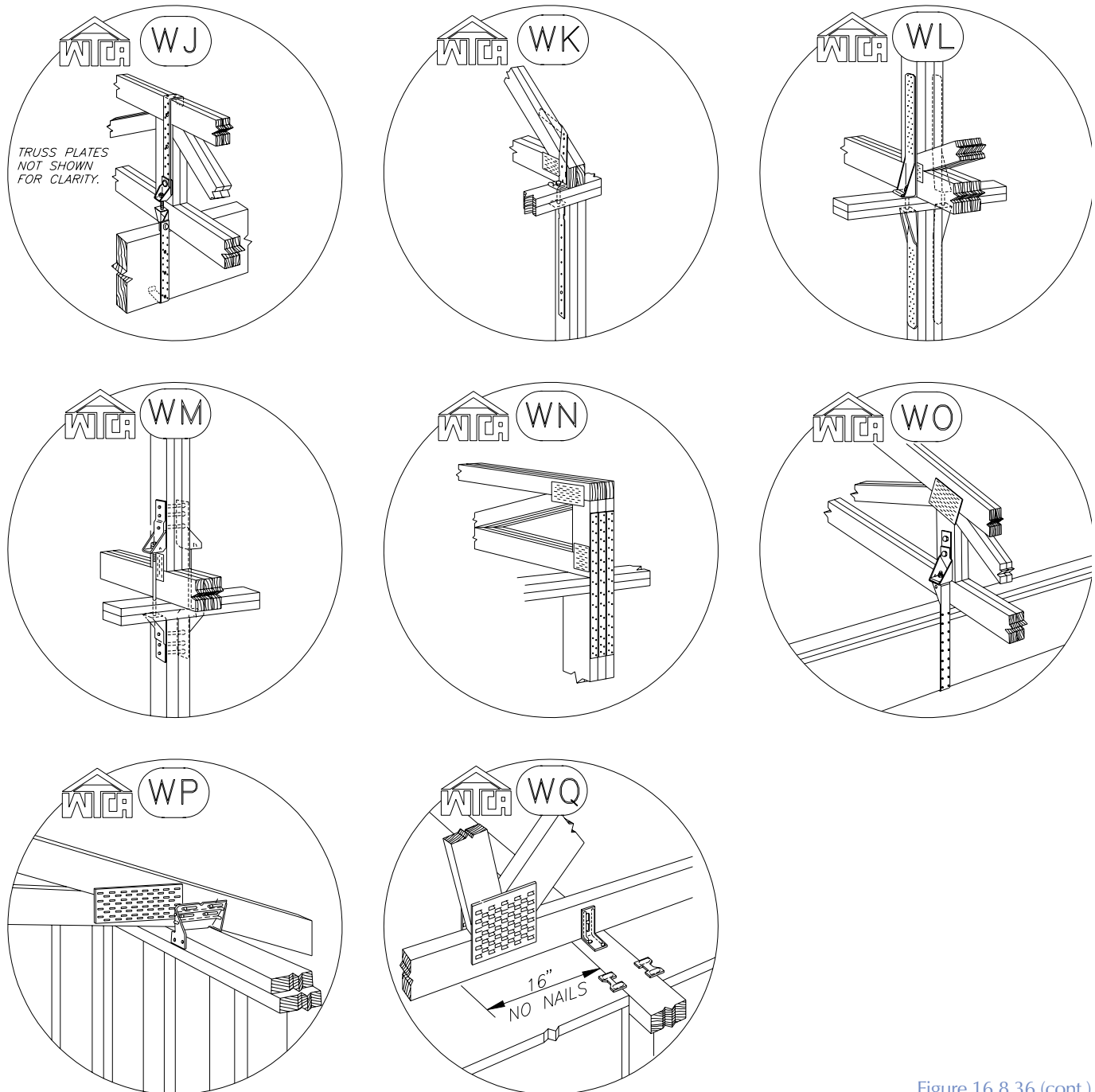


Figure 16.8.36 (cont.)