OZCO Project #396 - Two Tier Pergola

this structure attaches to home with ledger board

The Eberle's Two Tier Pergola Project Plans - as seen on a popular national home improvement show filmed right here in OZCO's home state of Texas!

OWT Ornamental Wood Ties

OZCO BUILDING PRODUCTS

OZCO Project #396 - Two Tier Pergola

Front Dimetric View

OW | Ornamental Wood Ties

OZCO BUILDING PRODUCTS

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

V2.00 - Installation Instructions, Specifications and Project Plans are effective 2/15/2017 . This information is updated periodically and should not be relied upon after 2 years from 2/15/2017 . Please visit OZCOBP.com to get current information. 3
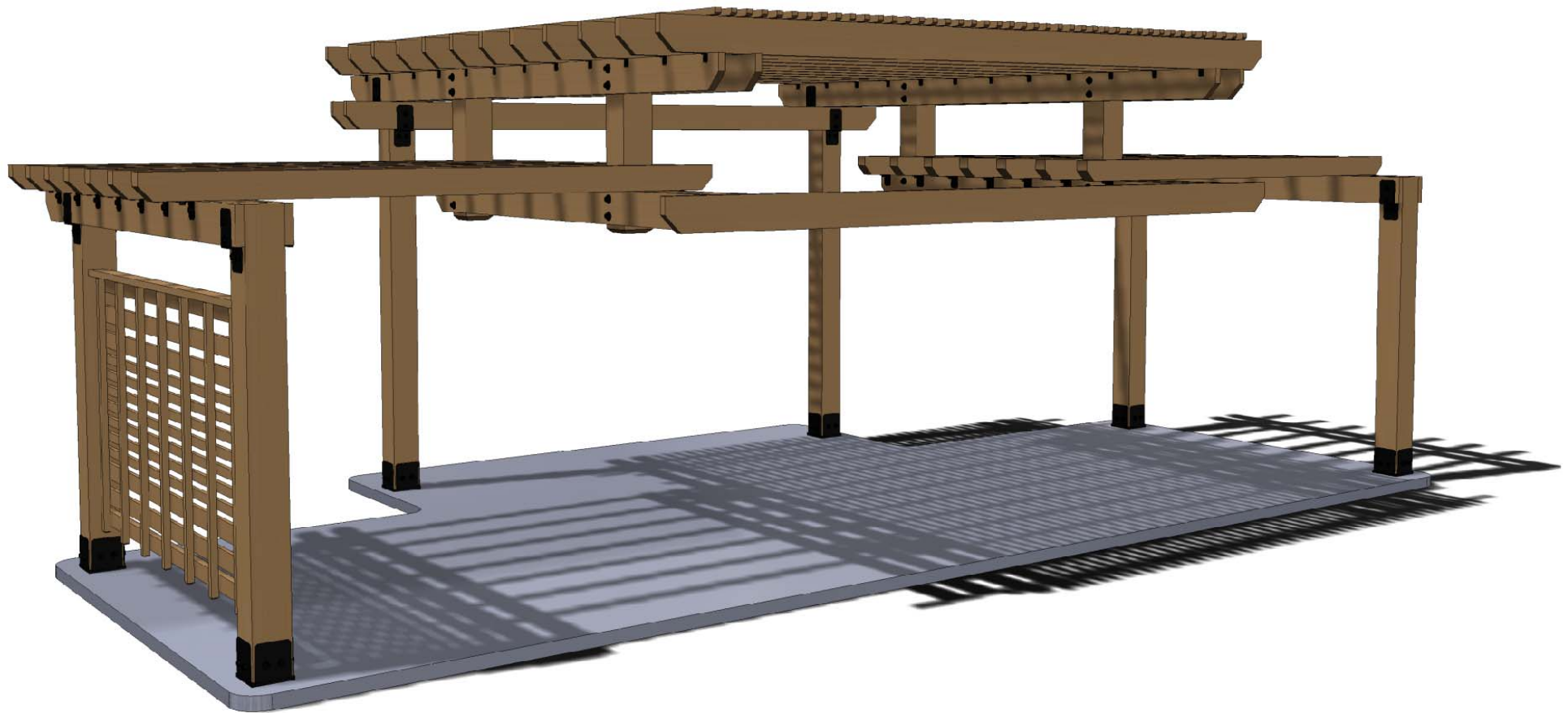
OZCO Project #396 - Two Tier Pergola

Rear Dimetric View

OWT Ornamental Wood Ties

OZCO BUILDING PRODUCTS

OZCO Project #396 - Two Tier Pergola

Front Dimetric View-Single Wing Layout

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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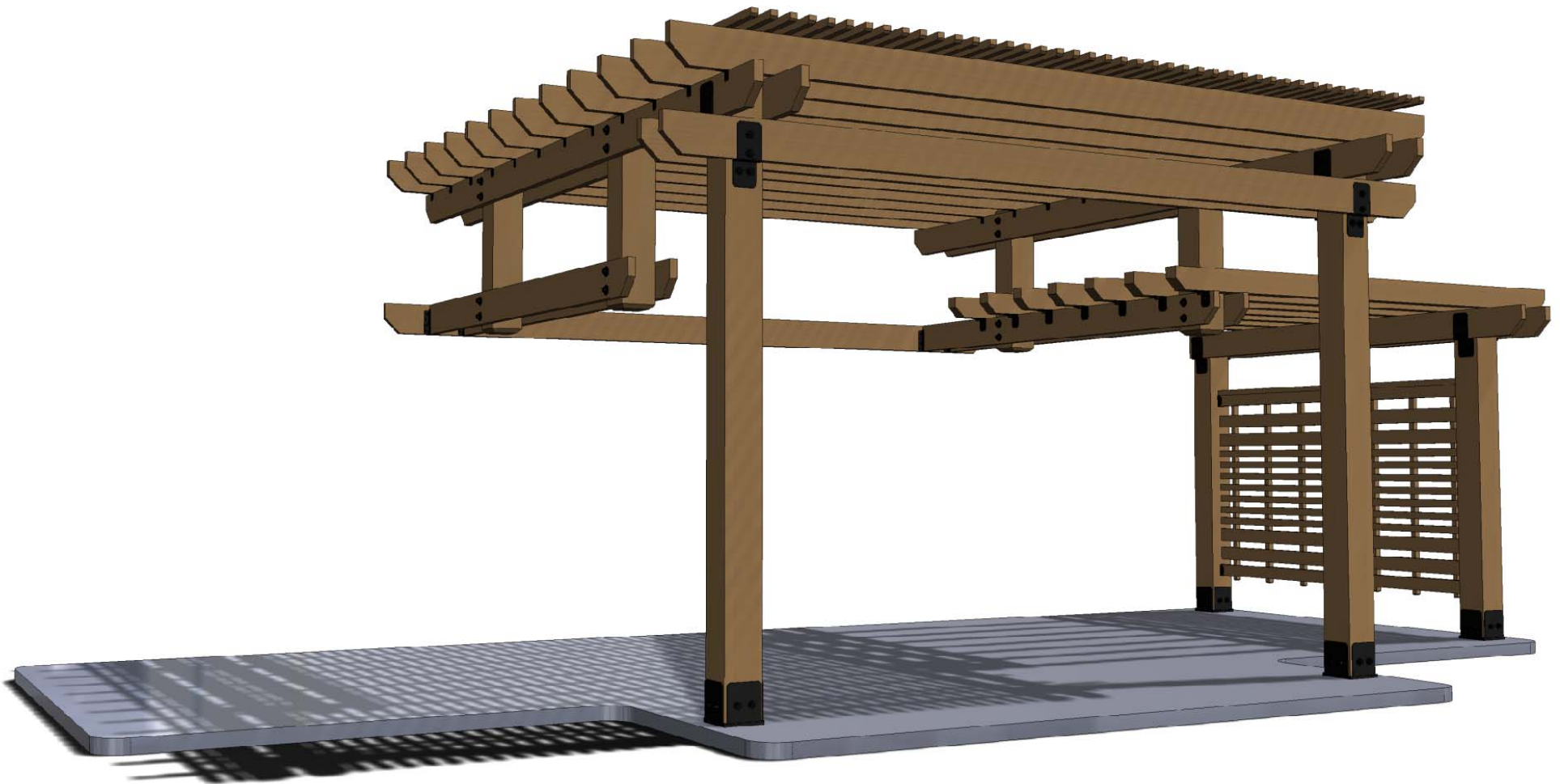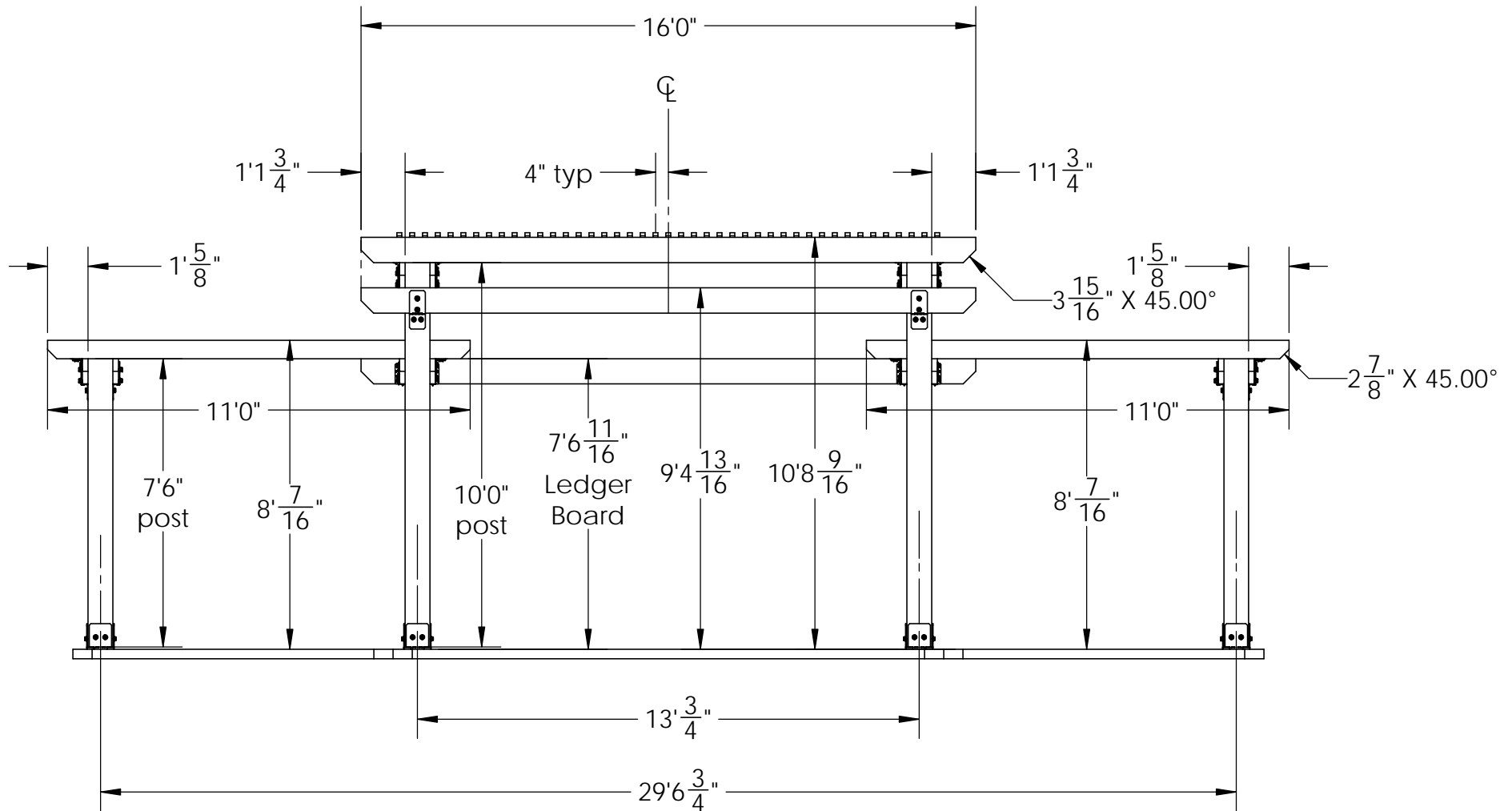
5

Ornamental **Wood Ties**

OZCO BUILDING PRODUCTS

16'0"

1'1$\frac{3}{4}$"

4" typ

1'1$\frac{3}{4}$"

1'$\frac{5}{8}$"

1'$\frac{5}{8}$"

3$\frac{15}{16}$" X 45.00°

2$\frac{7}{8}$" X 45.00°

11'0"

11'0"

7'6$\frac{11}{16}$"
Ledger
Board

9'4$\frac{13}{16}$"

10'8$\frac{9}{16}$"

7'6"
post

8'$\frac{7}{16}$"

10'0"
post

8'$\frac{7}{16}$"

13'$\frac{3}{4}$"

29'6$\frac{3}{4}$"

adjustments may be required due to differences in roof pitch and soffit dimensions

Overview-Front

shown with deck

16'0"

1'4"
typ

adjustments may be required due to differences in roof pitch and soffit dimensions

Overview-Top

shown with deck

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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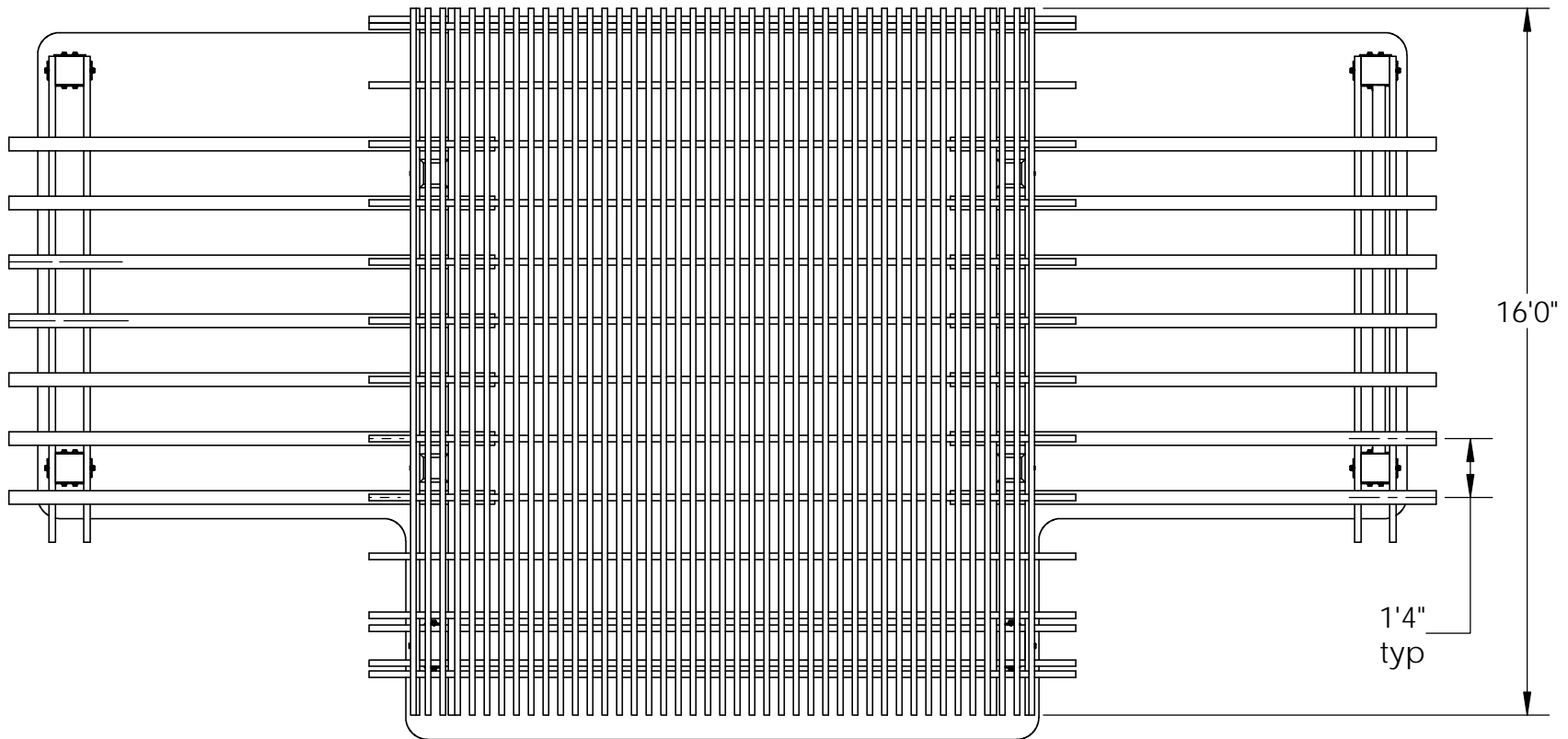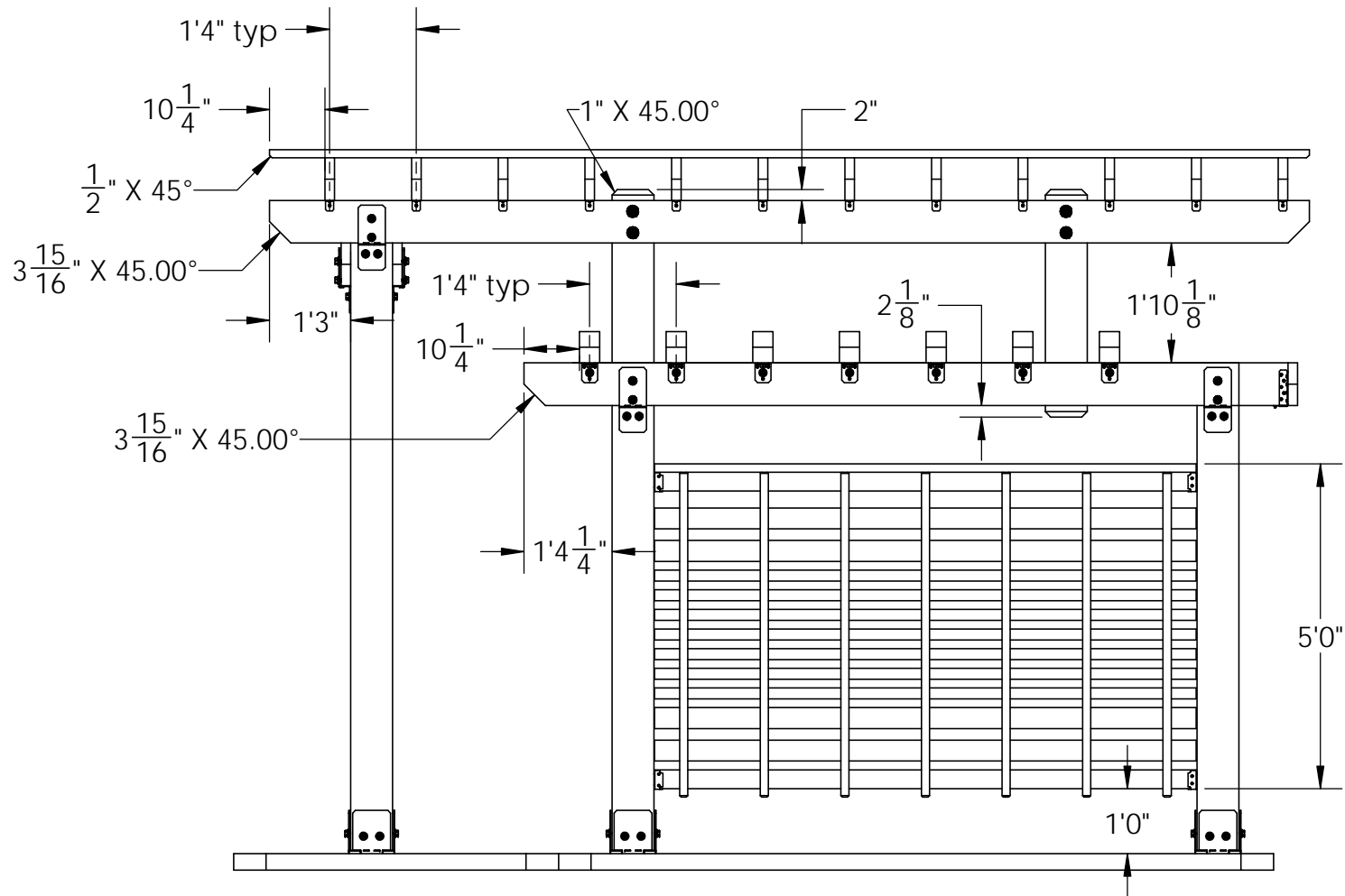
7

1'4" typ

10$\frac{1}{4}$"

$\frac{1}{2}$" X 45°

1" X 45.00°

2"

3$\frac{15}{16}$" X 45.00°

1'3"

1'4" typ

10$\frac{1}{4}$"

2$\frac{1}{8}$"

1'10$\frac{1}{8}$"

3$\frac{15}{16}$" X 45.00°

1'4$\frac{1}{4}$"

5'0"

1'0"

adjustments may be required due to differences in roof pitch and soffit dimensions

Overview-Right

shown with deck

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

Suggested Tools
(others may be required)

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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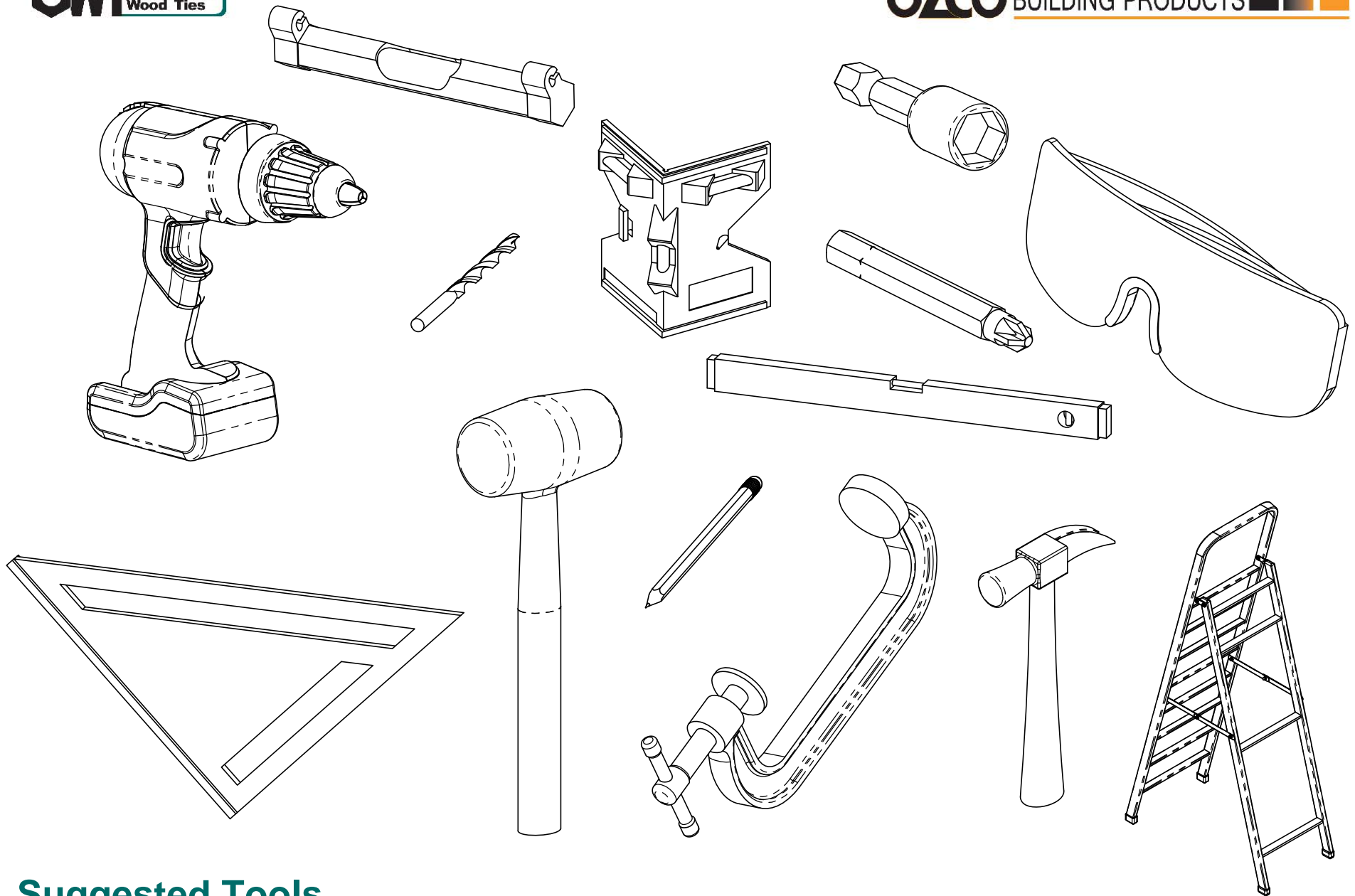
9

QTY.	PART NUMBER	DESCRIPTION
6	51709	8x8 Post Base (8x8-PB-IW)
4	51717	2" Standard Rafter Clip (RC-IW-2)
3	51718	4" Standard Rafter Clip (RC-IW-4)
8	51737	Bolt Inline (P2B-BI-IW)
1	51770	8-10" Joist Hanger Flush (JHF-810-IW)
2	56641	2x4 Top Rail Saddle (2x4-TR)
16	56652	OWT Timber Bolt 10-12"
8	56680	2" Timber Bolt Heavy Duty Washer (OWT-TBW-2)
2	8x8X10L	8x8x10
6	8x8X8L	8x8x8
14	4x6X12L	4x6x12
19	2x8X16L	2X8x16
8	2x8X12L	2x8x12
3	2x4X10L	2x4x10
43	2x2X16L	2x2x16
7	2x2X6L	2x2x6
4	1x4X10L	1x4x10
7	1x2X10L	1x2x10

Material List

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'
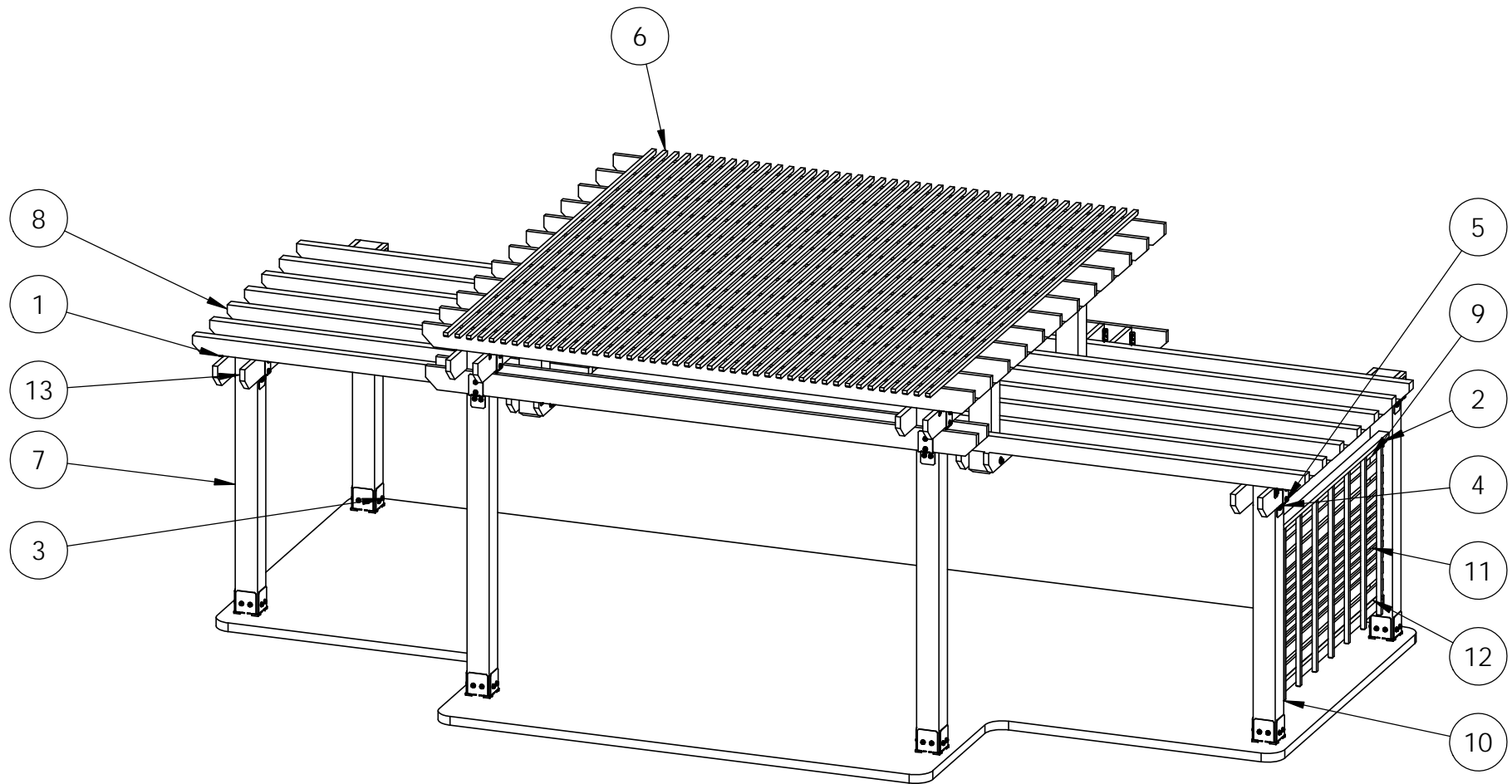
Bill of Material

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	51718	4" Standard Rafter Clips (RC-IW-4)
2	2	56641	2x4 Top Rail Saddle (2x4-TR)
3	4	51709	8x8 Post Base (8x8-PB-IW)
4	4	51737	Bolt Inline (P2B-BI-IW)
5	4	56652	OWT Timber Bolt 10-12"
6	1	OZCO Project #396 - Two Tier Pergola 30' x 16' x 11' Center Section	
7	4	8x8 Cedar Post	8x8x7'6"
8	14	4x6 Cedar Board	4x6x11'0"
9	3	2x4 Cedar Board	2x4x8'4"
10	7	2x2 Cedar Board	2x2x5'0"
11	7	1x2 Cedar Board	1x2x8'4"
12	4	1x4 Cedar Board	1x4x8'4"
13	4	2x8 Cedar Board	2x8x11'0"

Bill of Material

Bill of Material-Upper Center Section

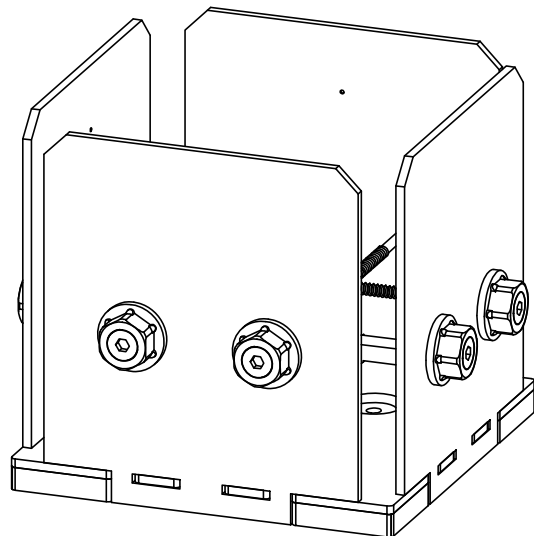**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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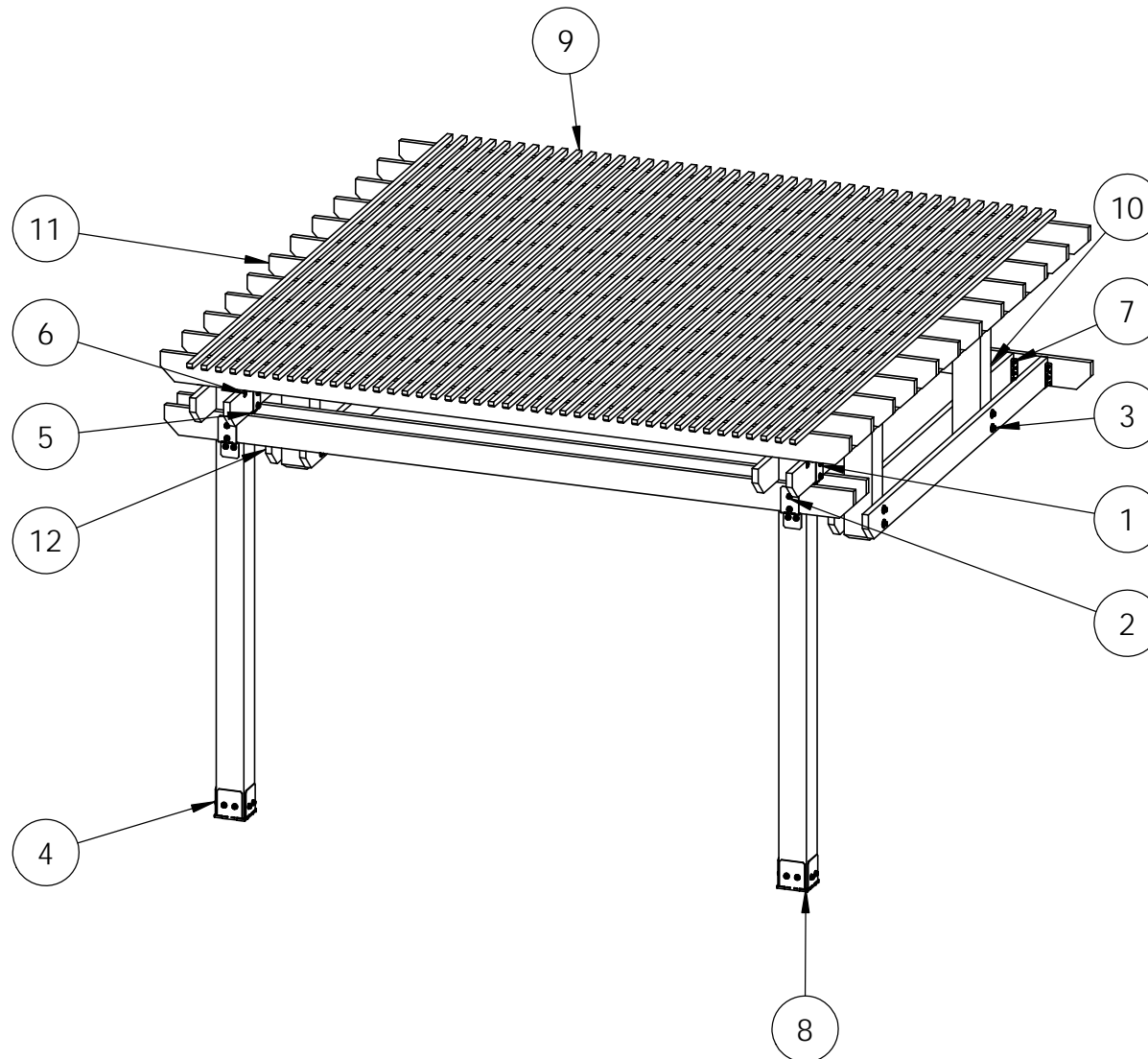
| ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	4	56652	OWT Timber Bolt 10-12"
2	2	56652	OWT Timber Bolt 10-12"
3	8	56652	OWT Timber Bolt 10-12"
	8	56680	2" Timber Bolt Heavy Duty Washer (OWT-TBW-2)
4	2	51709	8x8 Post Base (8x8-PB-IW)
5	4	51737	Bolt Inline (P2B-BI-IW)
6	5	51717	2" Standard Rafter Clip (RC-IW-2)
7	1	51770	8-10" Joist Hanger Flush (JHF-810-IW)
8	2	8x8 Cedar Post	8x8x10'0"
9	43	2x2 Cedar Board	2x2x16'0"
10	4	8x8 Cedar Post	8x8x3'6"
11	19	2x8 Cedar Board	2x8x16'0"
12	4	2x8 Cedar Board	2x8x11'0"

Bill of Material-Upper Center Section

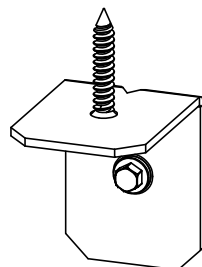**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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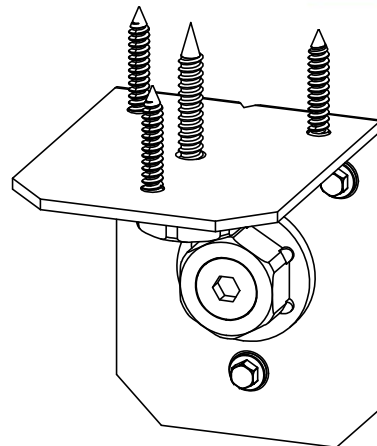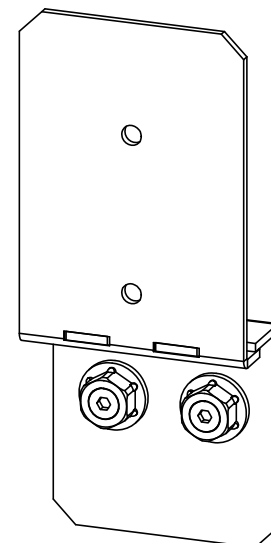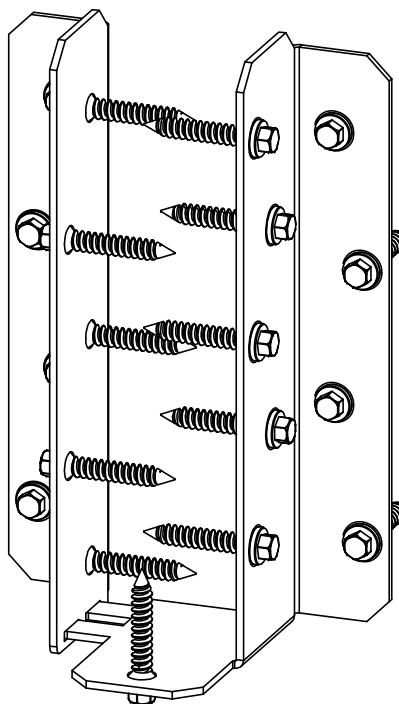
13

51717

51718
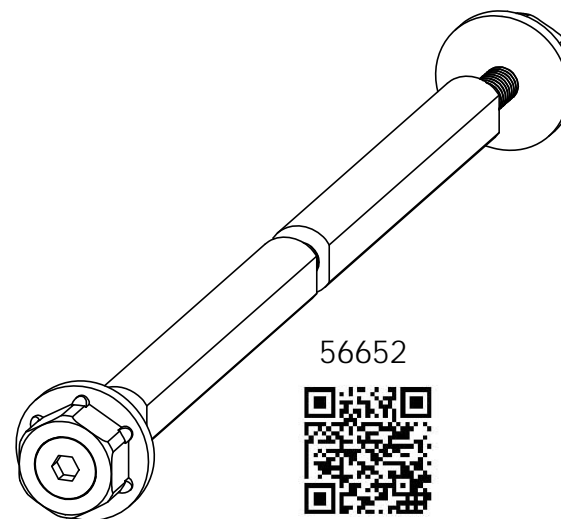
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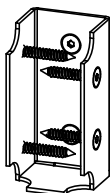
51737

56641

51770

56652
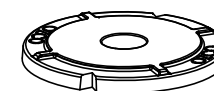
56680

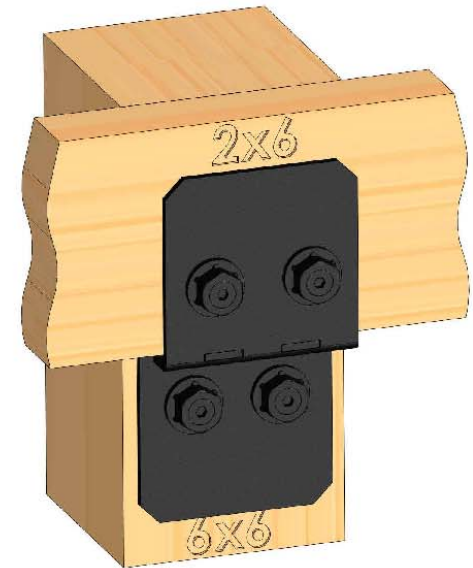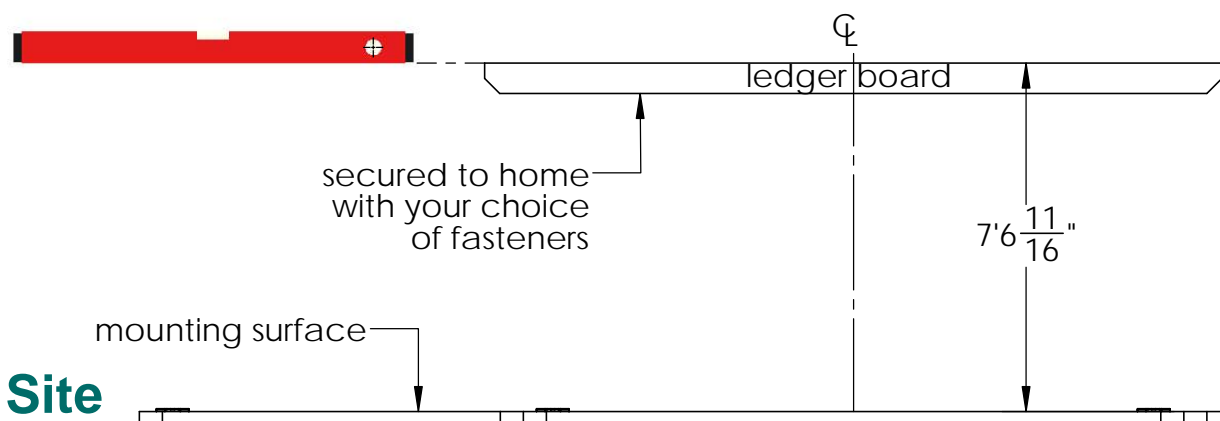# Laredo Sunset & Ironwood

2 great styles

Same functionality

choose your
connection lifestyle

both styles available for
most products

Laredo Sunset
(566XX series)

Ironwood
(517XX series)

OWT Ornamental Wood Ties

OZCO BUILDING PRODUCTS

OWT Ornamental Wood Ties

OZCO BUILDING PRODUCTS

ledger board
(mounted to home)

Locate desired
center of structure

$30'10\frac{13}{16}"$

$9'0"$

$14'2\frac{15}{16}"$

$29'6\frac{3}{4}"$

mounting surface

$13'\frac{1}{2}"$

ledger board

secured to home
with your choice
of fasteners

$7'6\frac{11}{16}"$
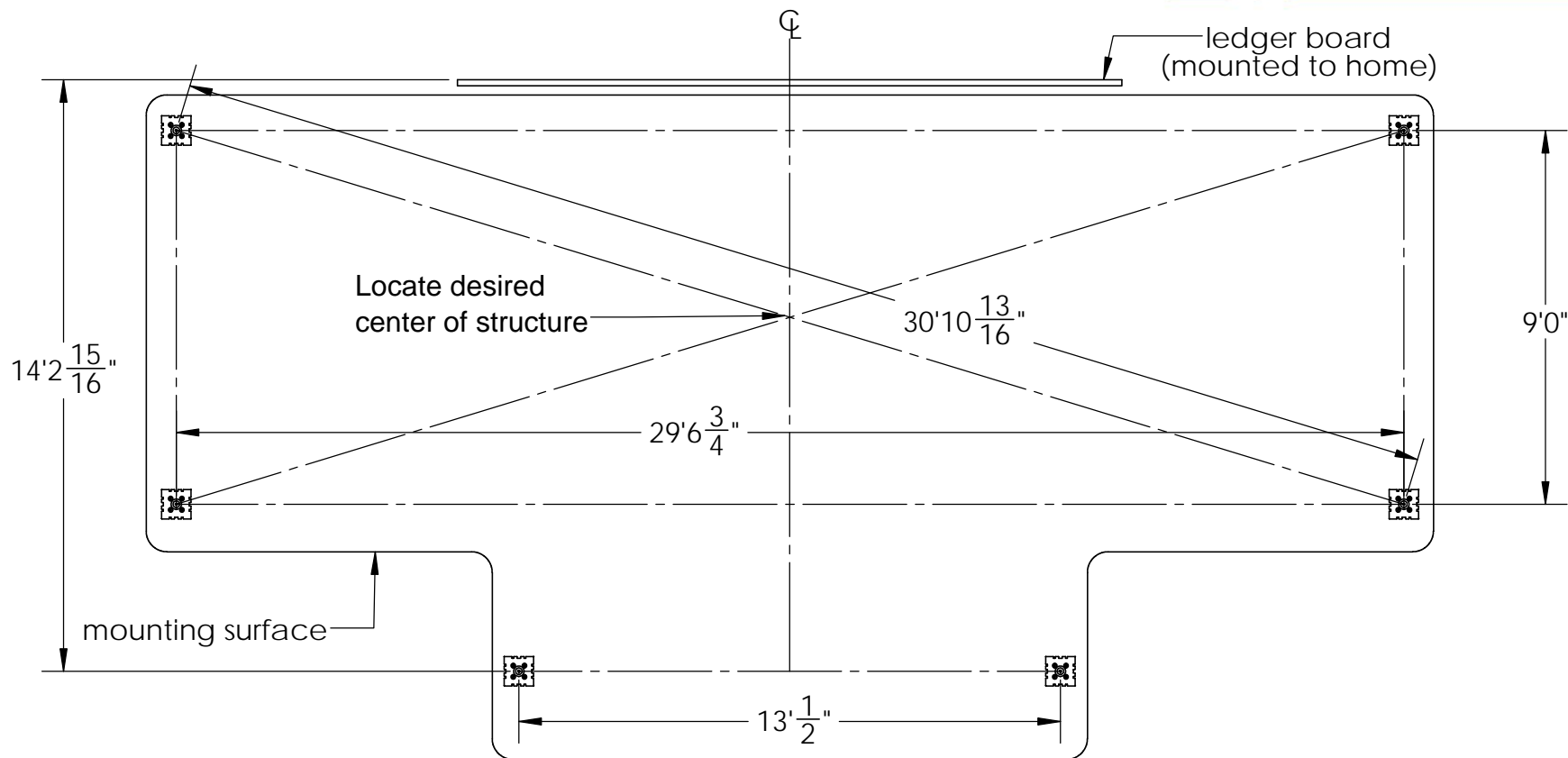
if site is not
level, see
Ozco Site
Leveling
instruction

mounting surface

Site

ledger board attached to house

(HCN)

Tool Required
3/8" Driver

step 1

(OWT Timber Screw)

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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(HCN)

Tool Required
3/8" Driver

(Timber Bolt)

2x8 width

step 2

**OZCO Project #396 - Two Tier Pergola 30' x
16' x 11'**

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create temporary structures to support beams until completely secured in later steps

Step 3 preview

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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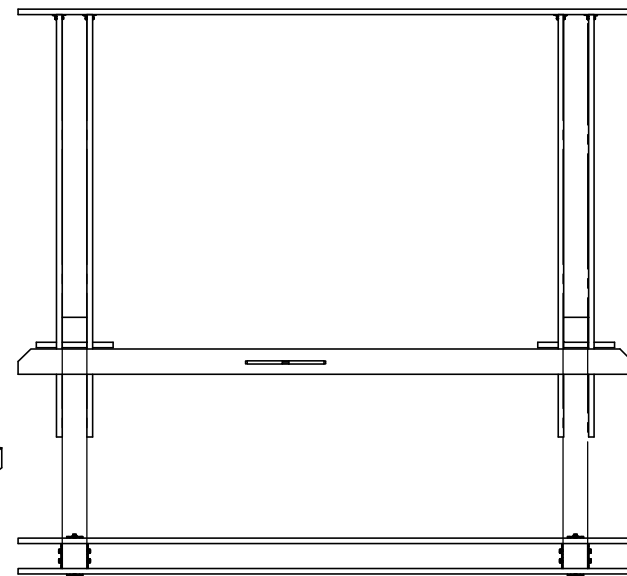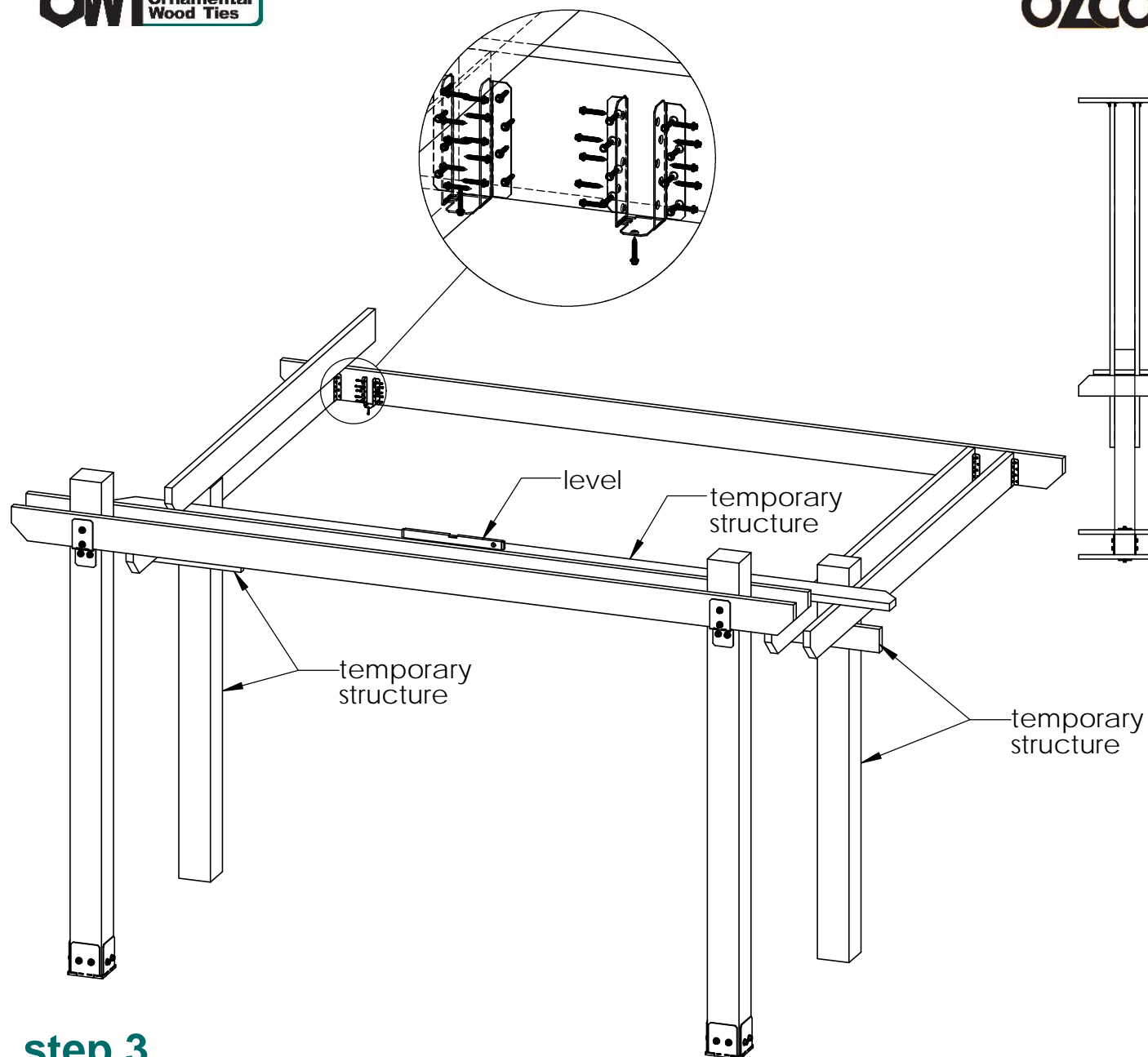
19

level

temporary structure

temporary structure

temporary structure

step 3

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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20

(HCN)

Tool Required
3/8" Driver

(Timber Bolt)

level

temporary
structure

temporary
structure

temporary
structure

step 4

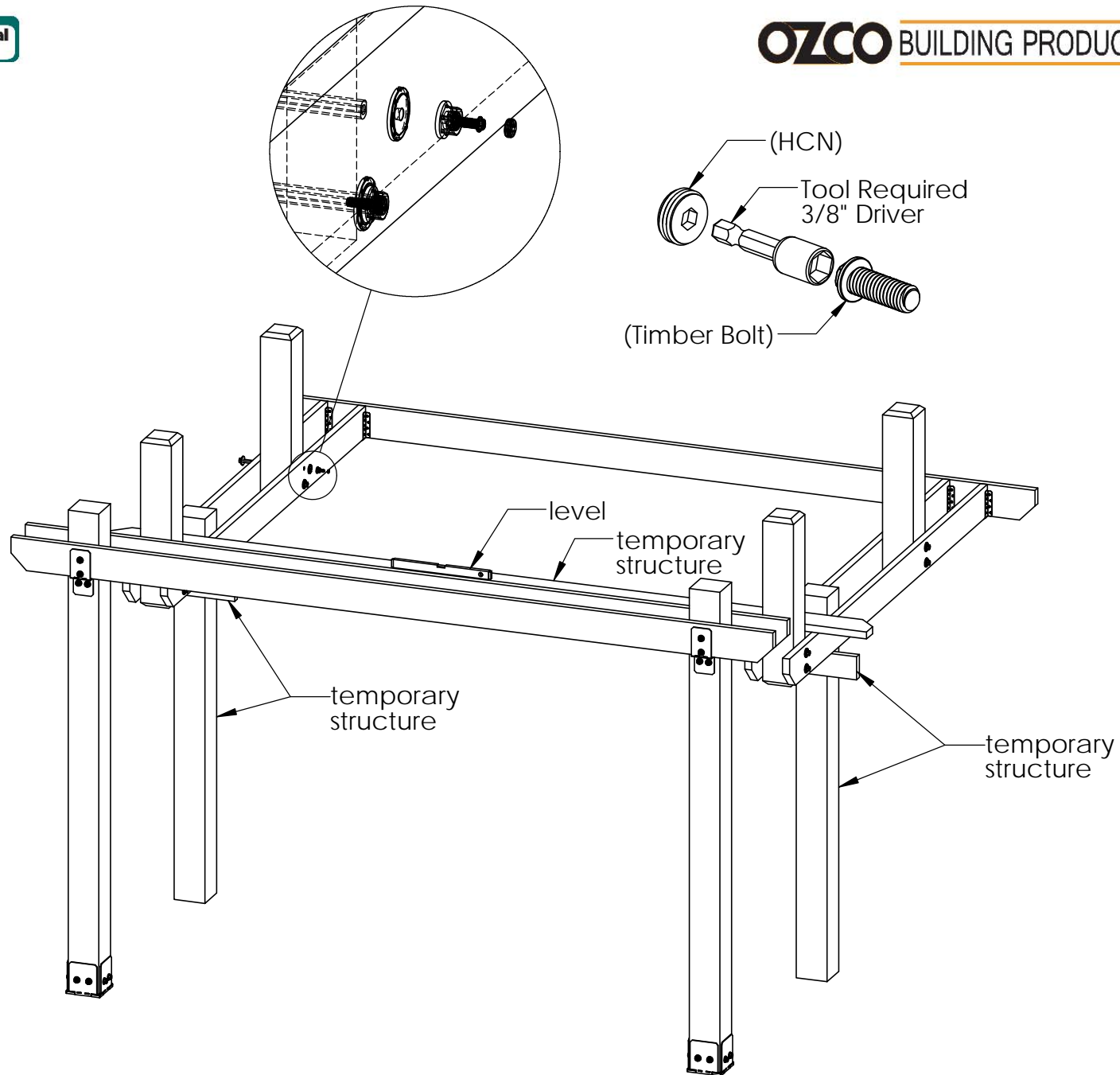**OZCO Project #396 - Two Tier Pergola 30' x
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21

(HCN)

Tool Required
3/8" Driver

(Timber Bolt)

remove
temporary
structure
after this
step

level

remove
temporary
structure
after this
step

remove
temporary
structure
after this
step

step 5

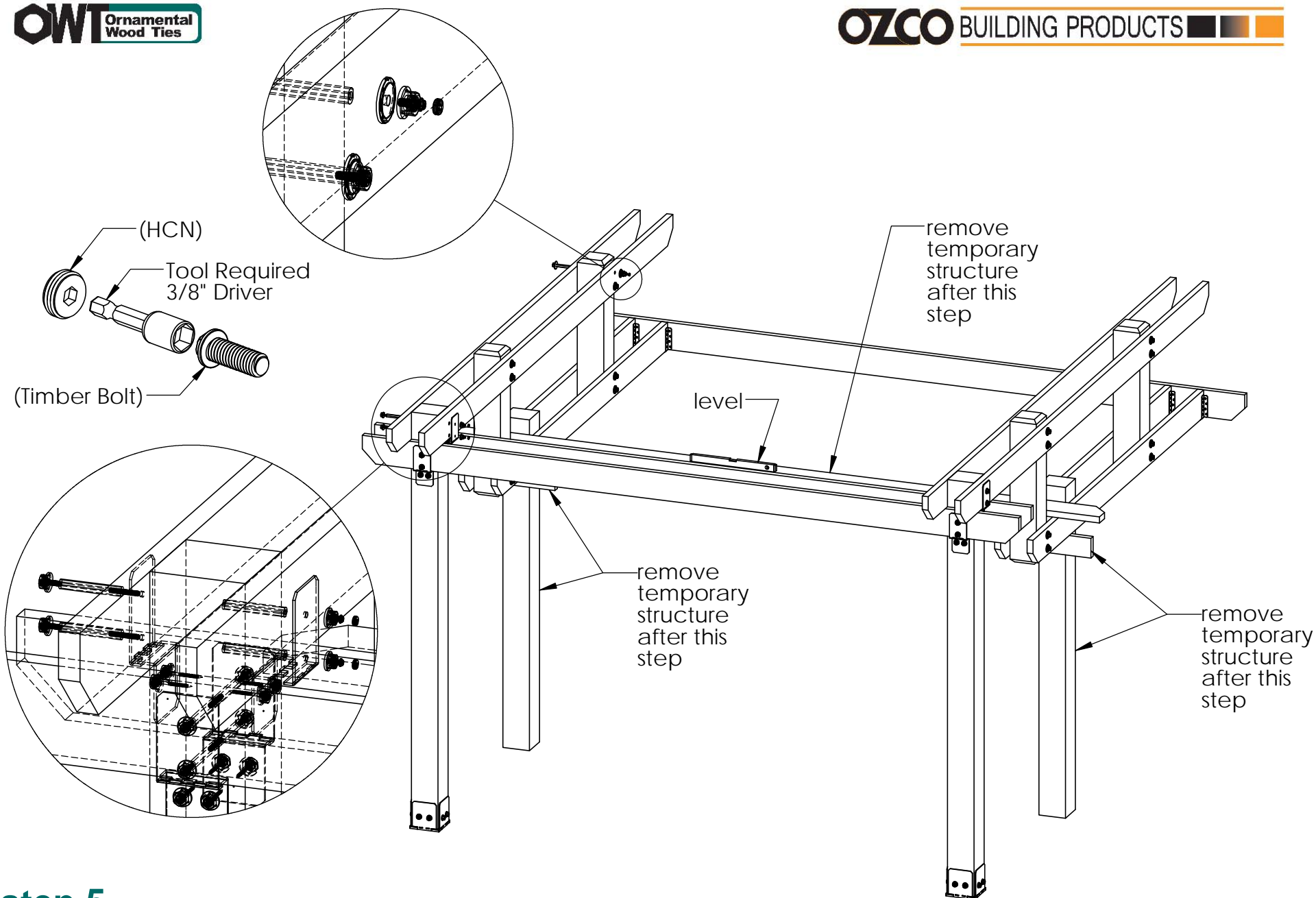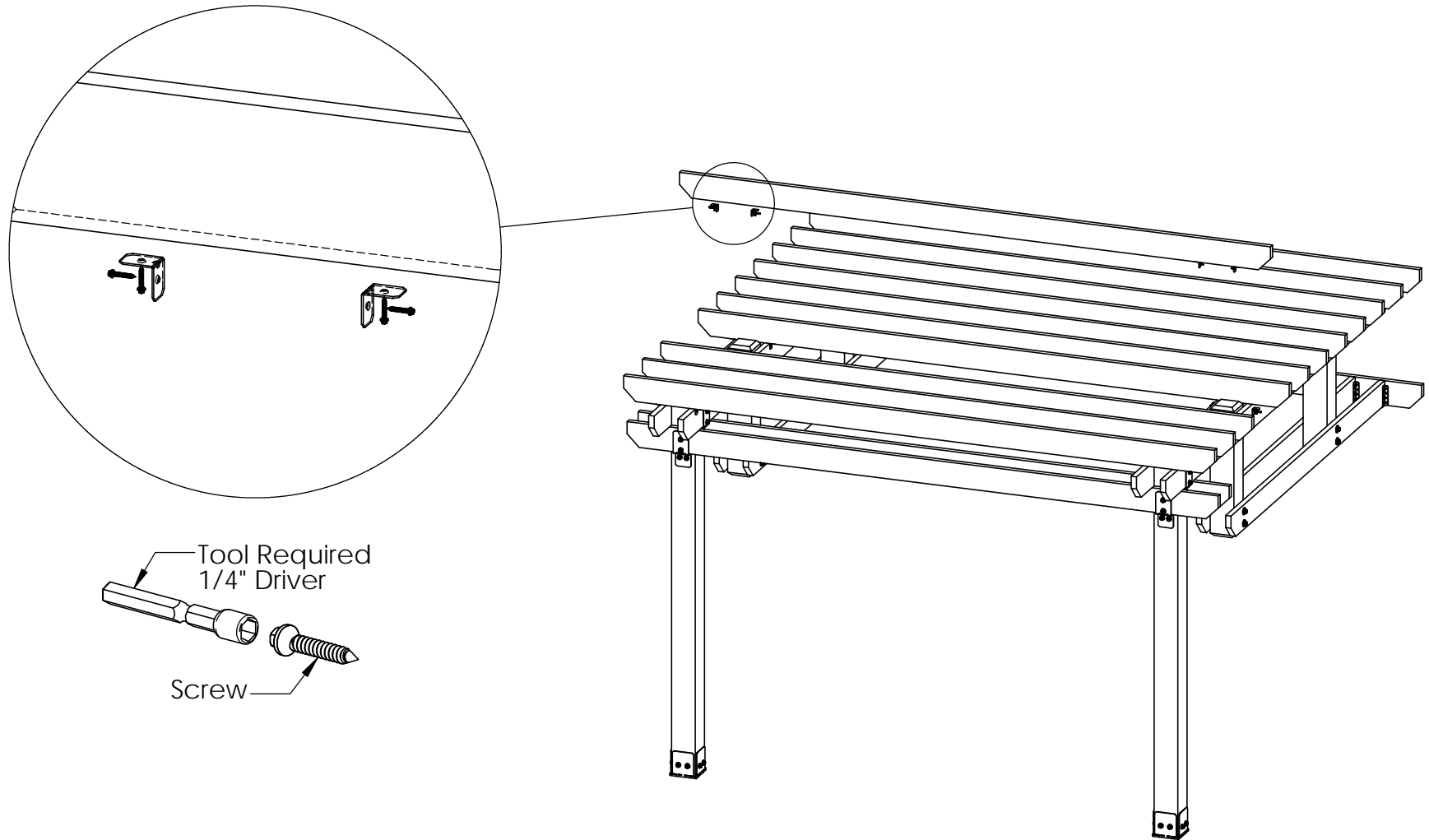**OZCO Project #396 - Two Tier Pergola 30' x
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22

Tool Required
1/4" Driver

Screw

step 6

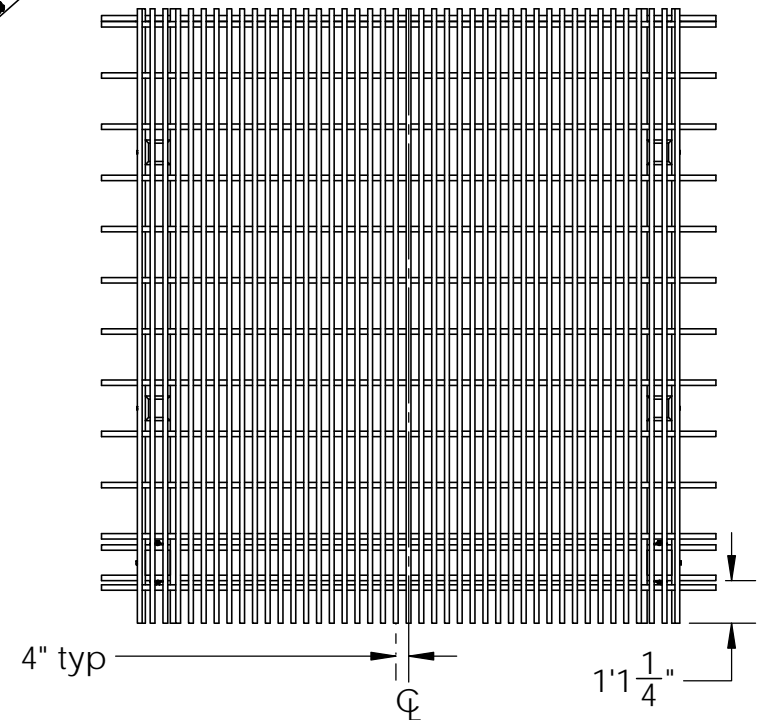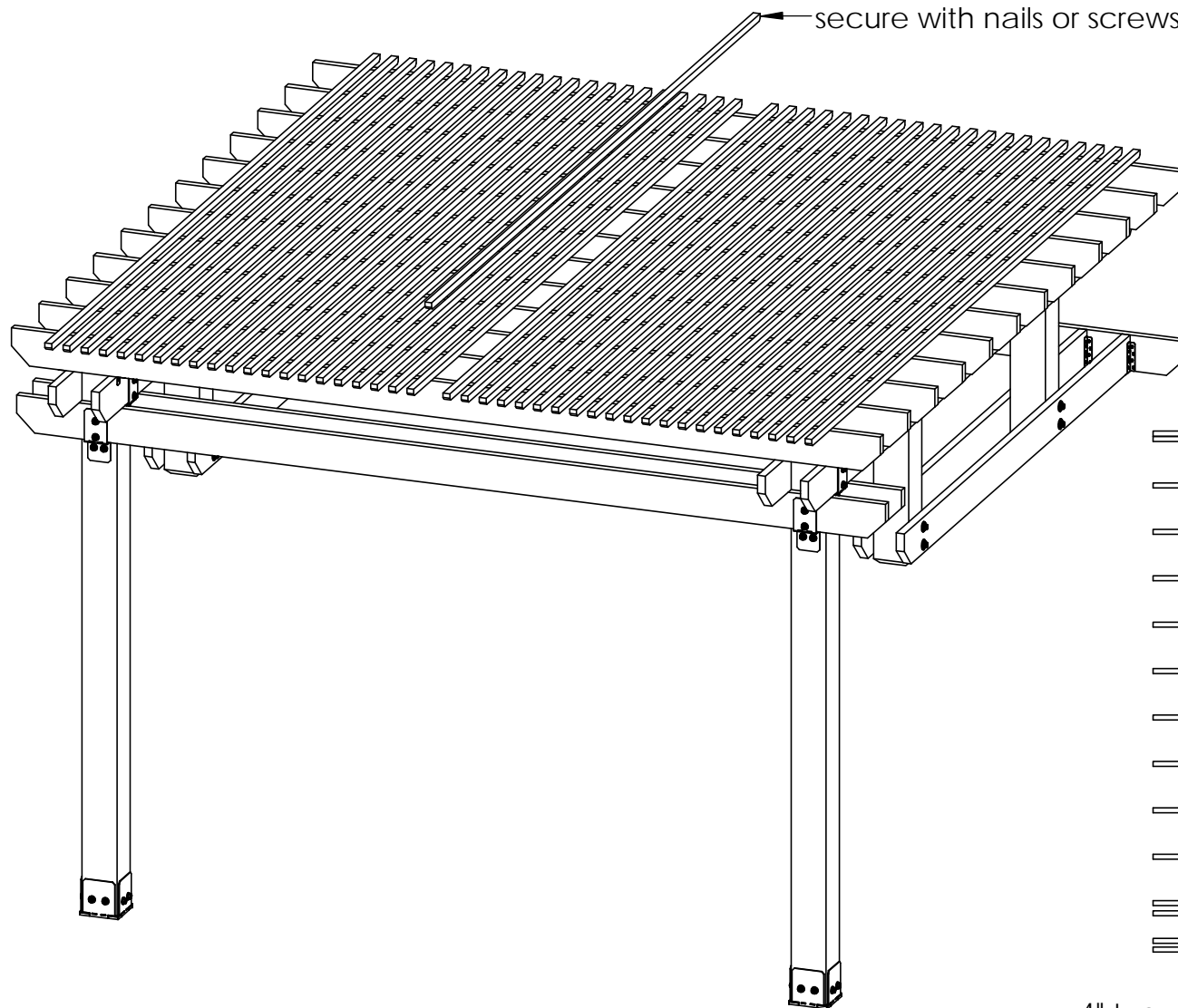**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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23

secure with nails or screws

4" typ

C_L

1'1$\frac{1}{4}$"

step 7

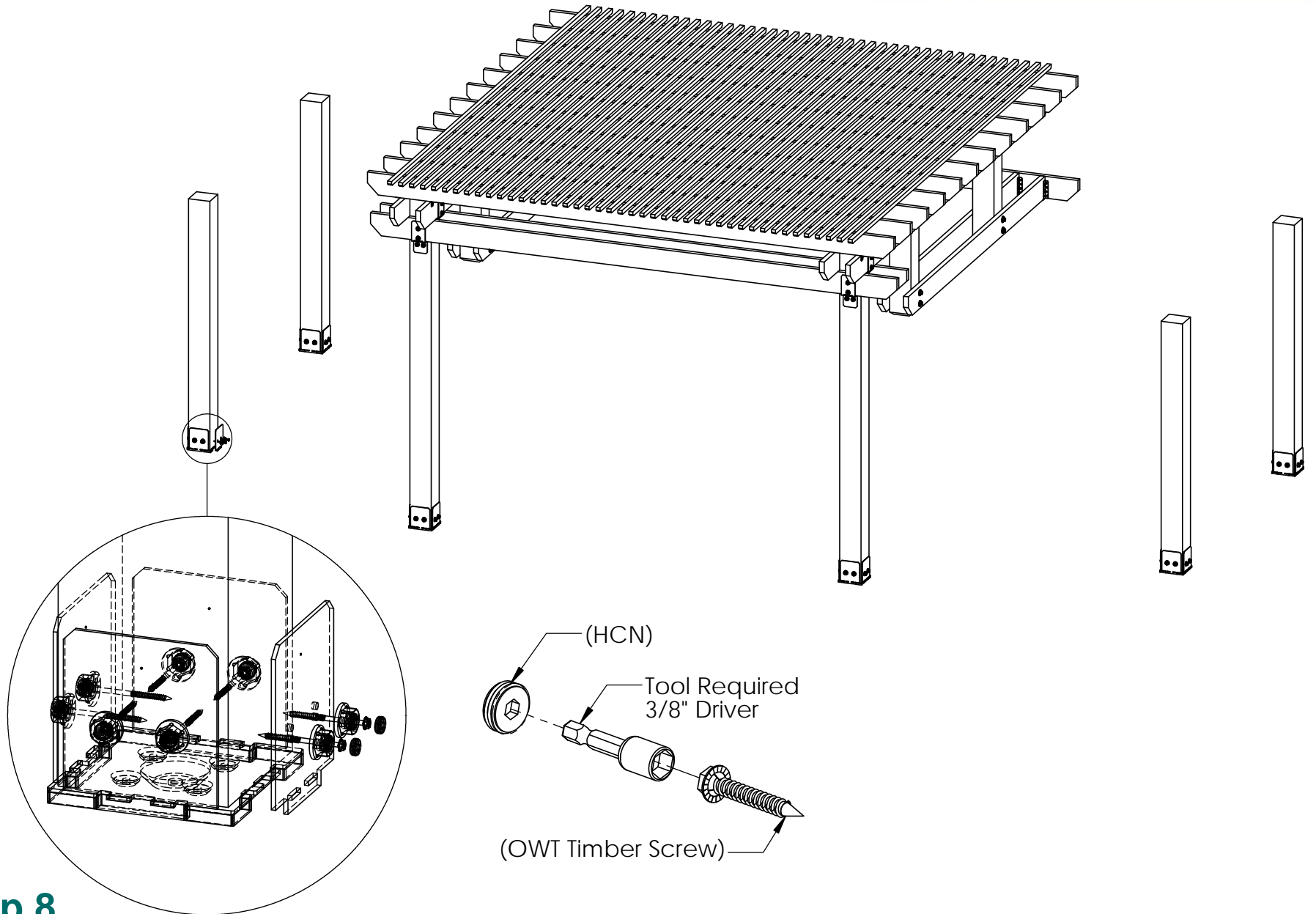**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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24

(HCN)

Tool Required
3/8" Driver

(OWT Timber Screw)

step 8

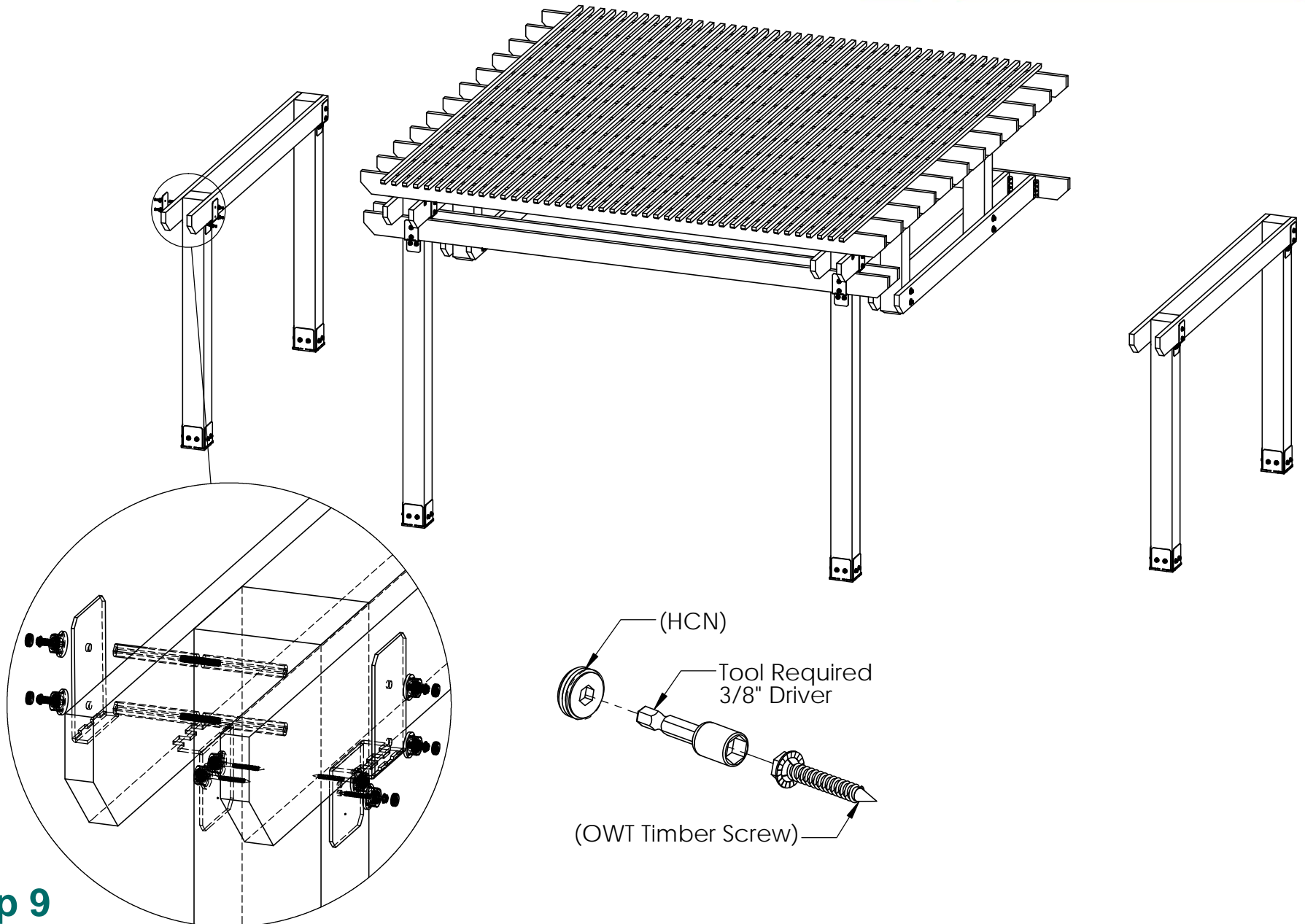**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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25

(HCN)

Tool Required
3/8" Driver

(OWT Timber Screw)

step 9

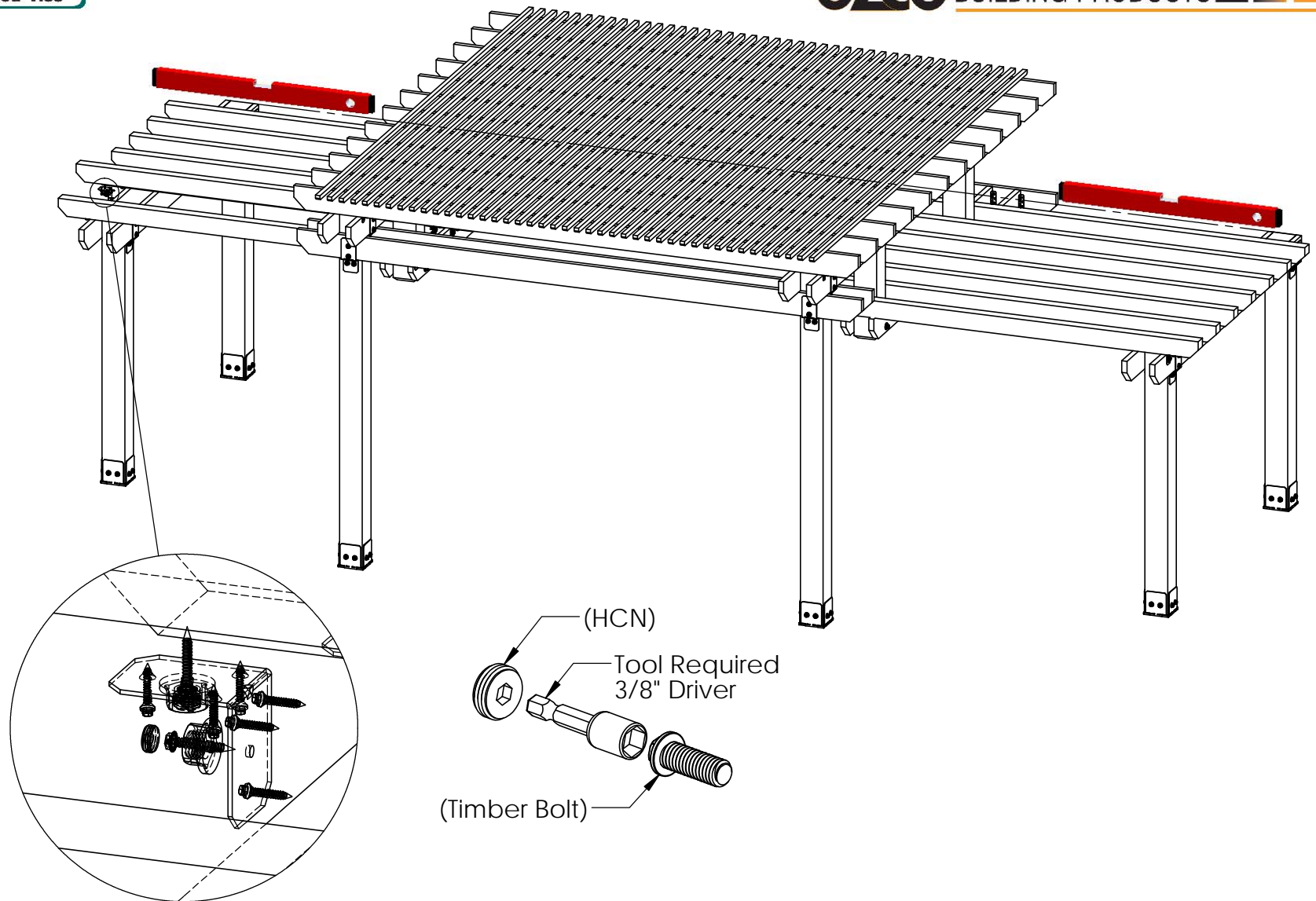**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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(HCN)

Tool Required
3/8" Driver

(Timber Bolt)

step 10

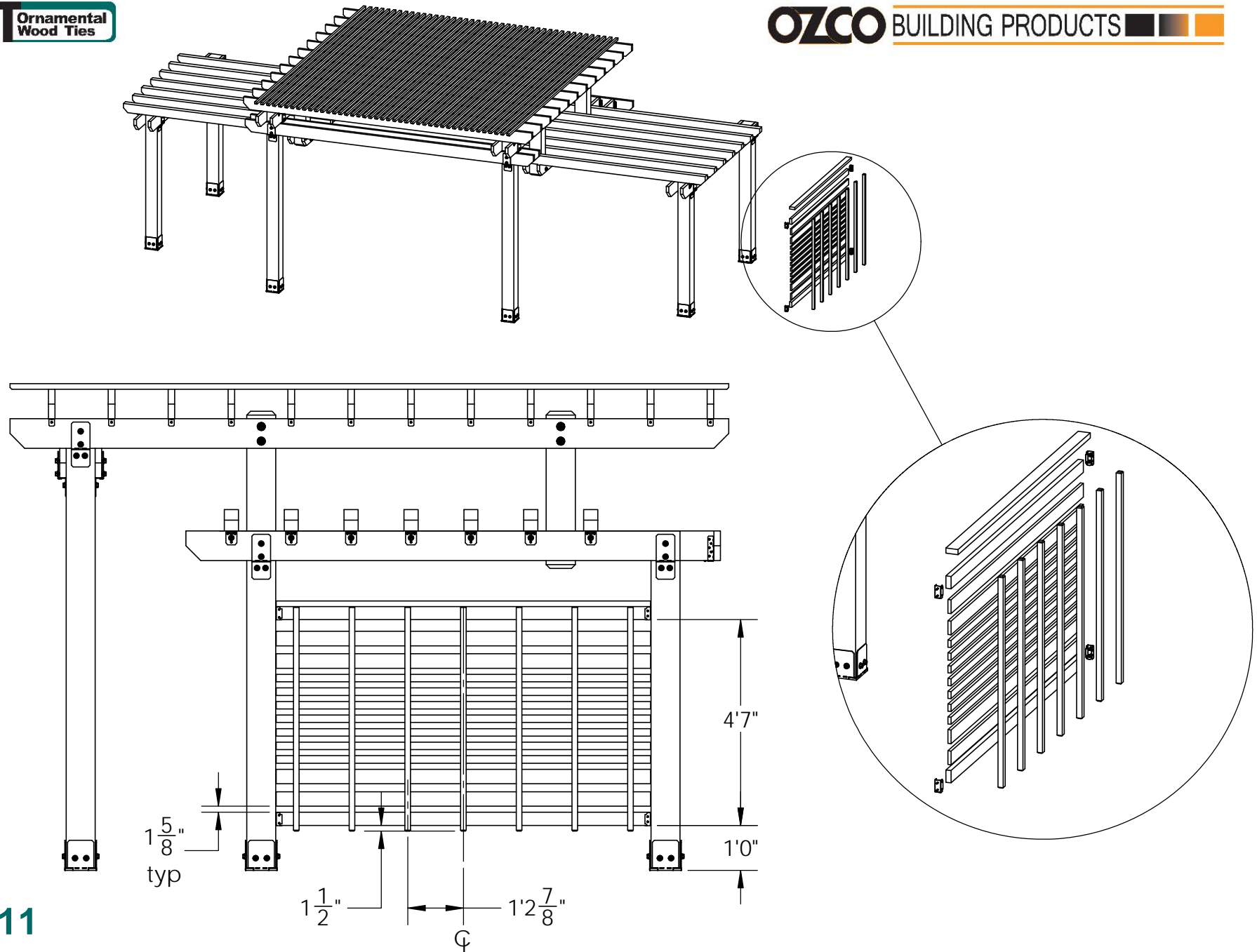**OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'**

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4'7"

1'0"

$1\frac{5}{8}$"

typ

$1\frac{1}{2}$"

$1'2\frac{7}{8}$"

C̶L̶

step 11

OZCO Project #396 - Two Tier Pergola 30' x 16' x 11'

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