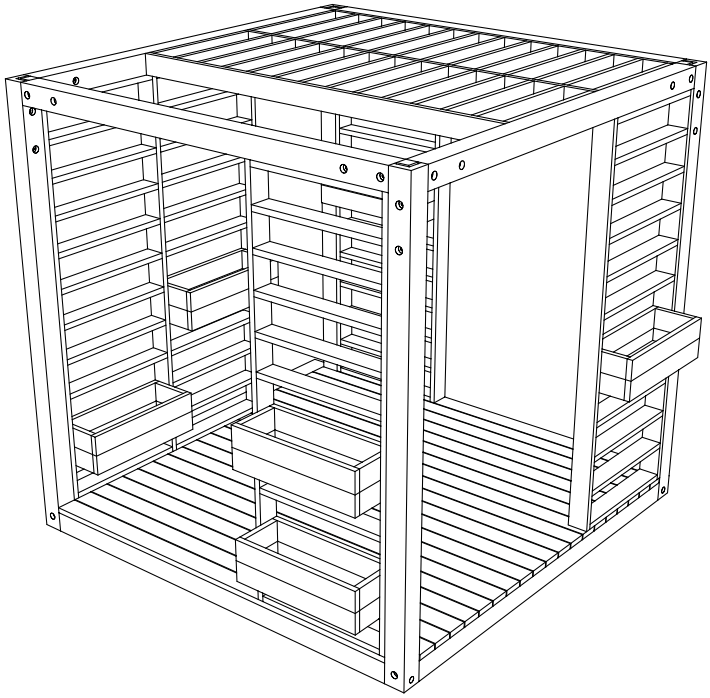
MANLY PERGOLA

DESIGN: REAL CEDAR ORIGINAL

OPTION B: CUSTOM BRACKETS



This all-purpose, family-sized pergola is rugged enough for an outdoor man cave, yet stylish enough for a garden tea party. This particular project has two design options. Builders can choose between standard corner bracing (refer to Option A instructions) or the more polished looking custom brackets (as seen here). And because the project calls for Real Cedar — a wood that's naturally resistant to rot, decay and insects — this sturdy and beautiful structure is going to last you a very long time.

In terms of WRC grades, choose Select Knotty for a more rustic look and Select Clear for a polished contemporary look. And when it comes to specifying sizes, we recommend asking your local Real Cedar retailer if they have any short lengths in stock. Using short lengths means less cutting, less waste and more savings for you.

For more fast facts on building with Real Cedar, download our free DIY app - available on the Apple App Store for iOS and at Google Play for Android.

*NOTE This aboveground structure is designed for 100% Western Red Cedar and therefore does NOT require any "Ground Contact"-rated lumber.

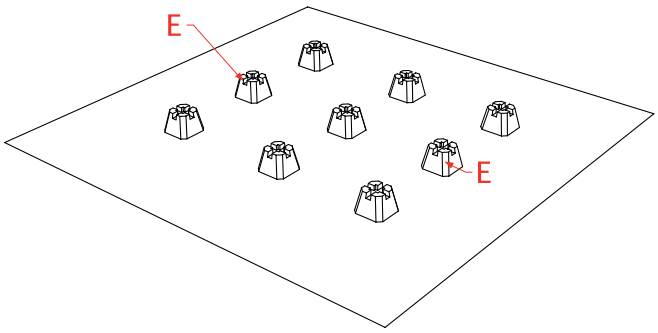
WHAT YOU'LL NEED

		FINISHED SIZE					
PART #	DESCRIPTION	T	W	L	NOMINAL SIZES	MATERIAL	QTY
	Deck						
A	header	1 1/2"	5 1/2"	109"	2x6x10	WRC SP4	2
B	header expose	5 1/2"	5 1/2"	109"	6x6x10	WRC SP4	4
C	joist	1 1/2"	5 1/2"	117"	2x6x10	WRC SP4	7
D	blocking	1 1/2"	5 1/2"	16 1/2"	2x6x2	WRC SP4	18
E	concrete base block					concrete	9
F	decking	1 1/2"	5 1/2"	120"	2x6x10		21
	Trellis						
G	post	5 1/2"	5 1/2"	108"	6x6x10	WRC SP4	4
H	beam	5 1/2"	5 1/2"	109"	6x6x10	WRC SP4	4
I	beam	1 1/2"	5 1/2"	109"	2x6x10	WRC SP4	3
J	trellis	1 1/2"	5 1/2"	35 1/4"	2x6x3	WRC SP4	28
K	custom bracket	1/2"	16"	16"		Galvanized steel	4
K1	alt 6x6 corner support (OPT. A ONLY)	5 1/2"	5 1/2"	28"	6x6x3	WRC SP4	8
K2	alt 2x6 corner top (OPT. A ONLY)	1 1/2"	5 1/2"	35 1/4"	2x6x3	WRC SP4	4
K3	alt lag bolts (OPT. A ONLY)	1/2" dia		10"			16
	Walls						
L	wall frame	1 1/2"	5 1/2"	94"	2x6x10	WRC SP4	9
M	slats	1 1/2"	5 1/2"	35 1/4"	2x6x3	WRC SP4	52
	Planters						
O	planter front/back	1 1/2"	5 1/2"	35"	2x6x3	WRC SP4	24
P	planter side	1 1/2"	5 1/2"	11"	2x6x1	WRC SP4	24
Q	planter bottom	1 1/2"	5 1/2"	32 1/4"	2x6x3	WRC SP4	12
Q1	planter bottom support	1 1/2"	1 1/2"	24"	2x2x2	WRC SP4	12
	Hardware						
R	lag bolts w/ nuts & washers for brackets	1/2" dia		6"			24
S	lag screws for base	1/2" dia		10"			16
T	joist hanger						6
U	lag bolts & washers	3/8" dia		4 1/2"			16
V	bracing	1 1/2"	1 1/2"	90"		WRC SP4	8
W	stainless steel screws			2 1/2"			500

CEDAR PRO TIP:
For all outdoor work, you should use rust-resistant hot-dipped galvanized or stainless steel nails. Other fasteners and hardware such as bolts, screws and hinges should also be made from similar corrosion-resistant materials.

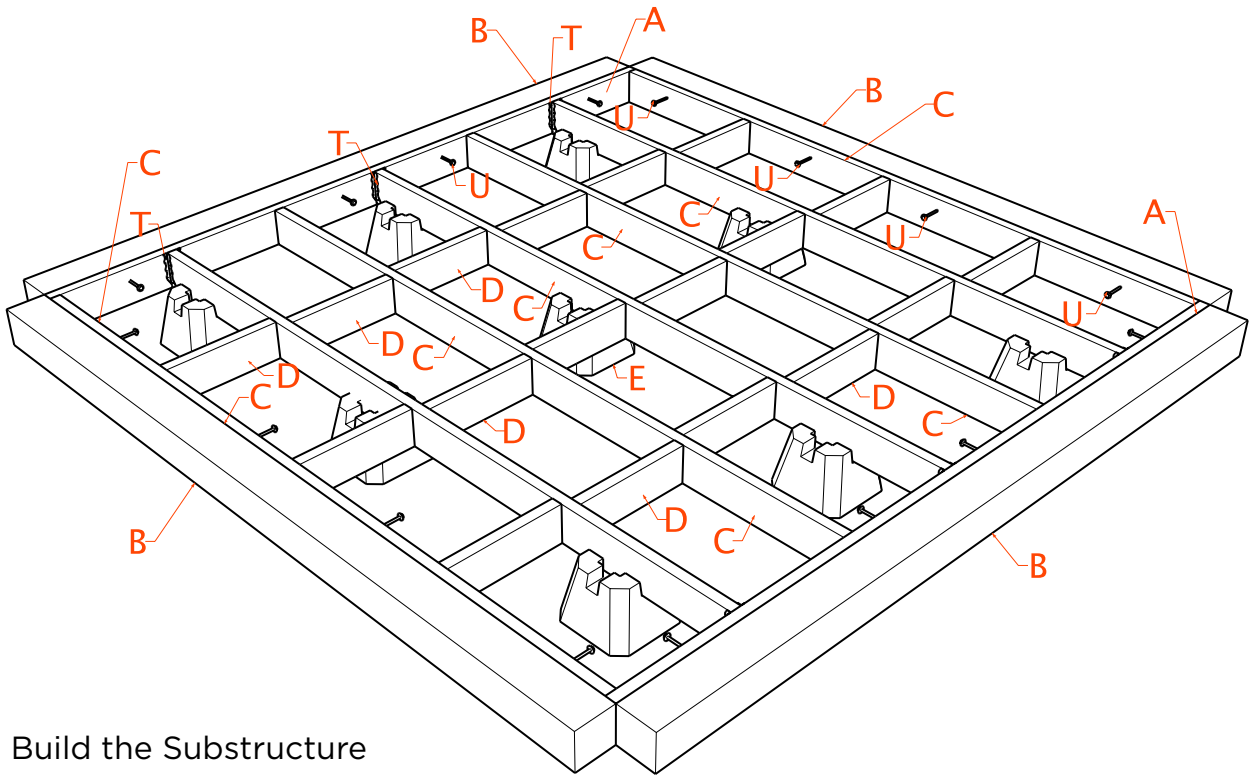
STEP 1 - Level the Base

Stake out and excavate the desired location. Tamp with a compactor until the site is level and the soil holds true. To keep dust down during this process, lightly spray dirt with water — but don't drench it.



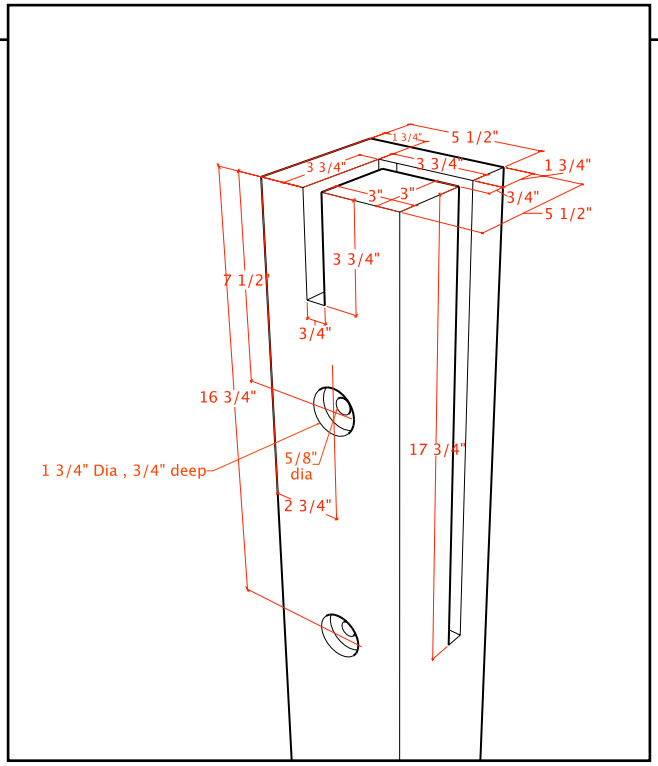
STEP 2 – Position Concrete Blocks

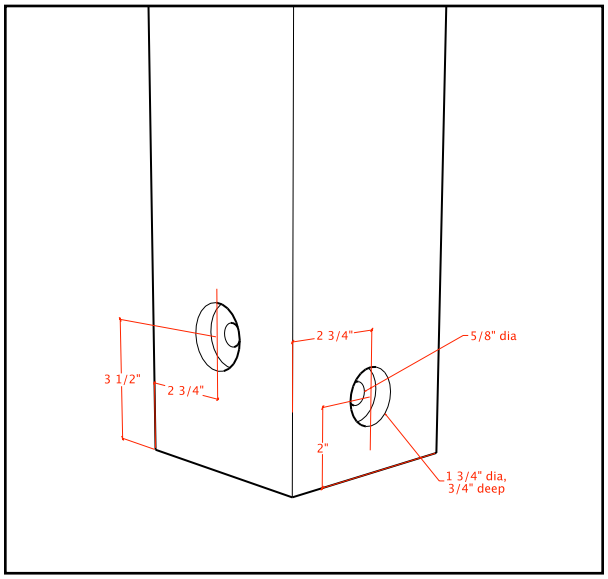
Spread a sheet of landscaping fabric overtop of the prepped area, so that it extends about 6"– 8" beyond the site's border and then cut it down to size. This will prevent weeds from growing through your structure. Afterwards, space out 9 (E) concrete blocks on top.



STEP 3 – Build the Substructure

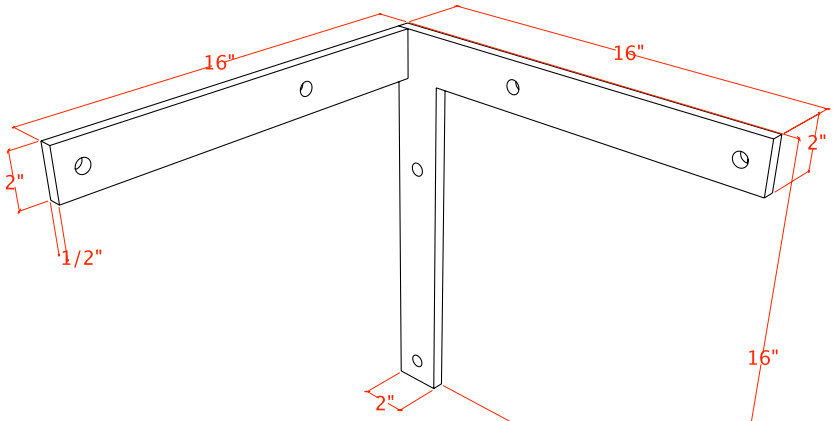
Insert three (C) 2 x 6 joists into concrete blocks. Attach both (A) rim joists with (T) joist hangers.
Then attach remaining four (C) joists to frame. Fine tune fitting with a shim or cedar wedge and make sure it's square before attaching one (B) 6 x 6 rim joist to all four sides of the outer frame with (U) lag bolts and washers. Then secure structure by installing 18 (D) 2 x 6 bridge blockers in between joists.

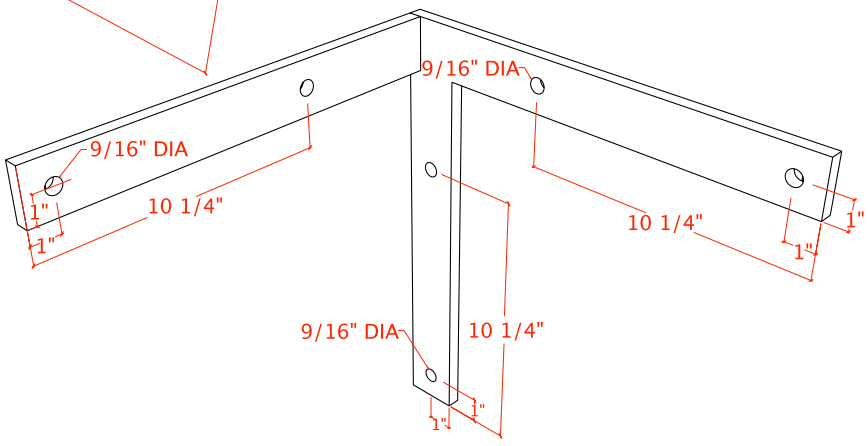


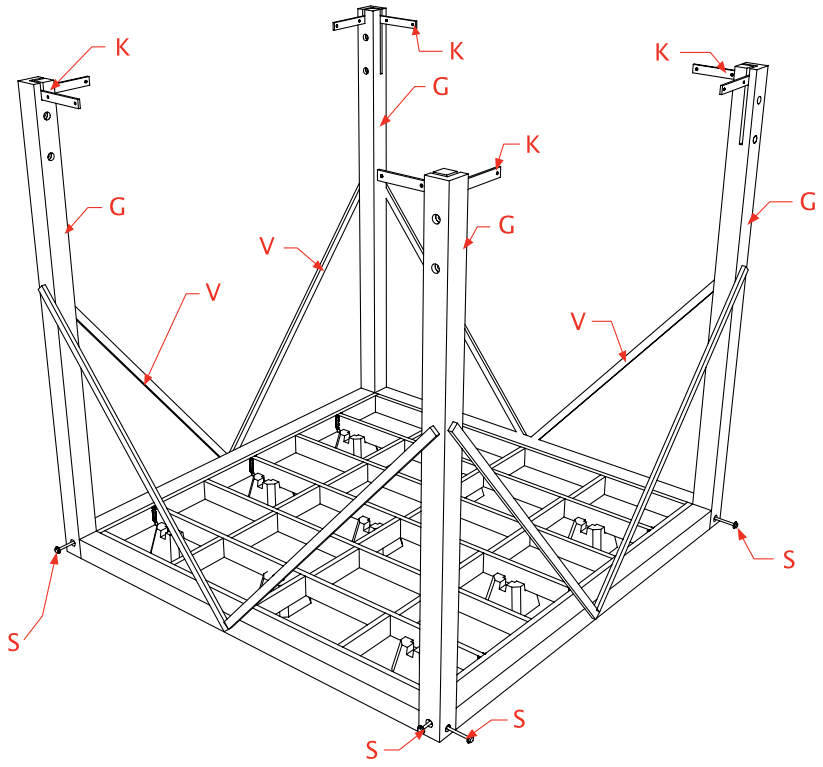


STEP 4 - Prep Posts Top and Bottom

Predrill tops of all four (G) 6 x 6 posts. Then, notch out wood according to illustrated measurements and assemble metal brackets.

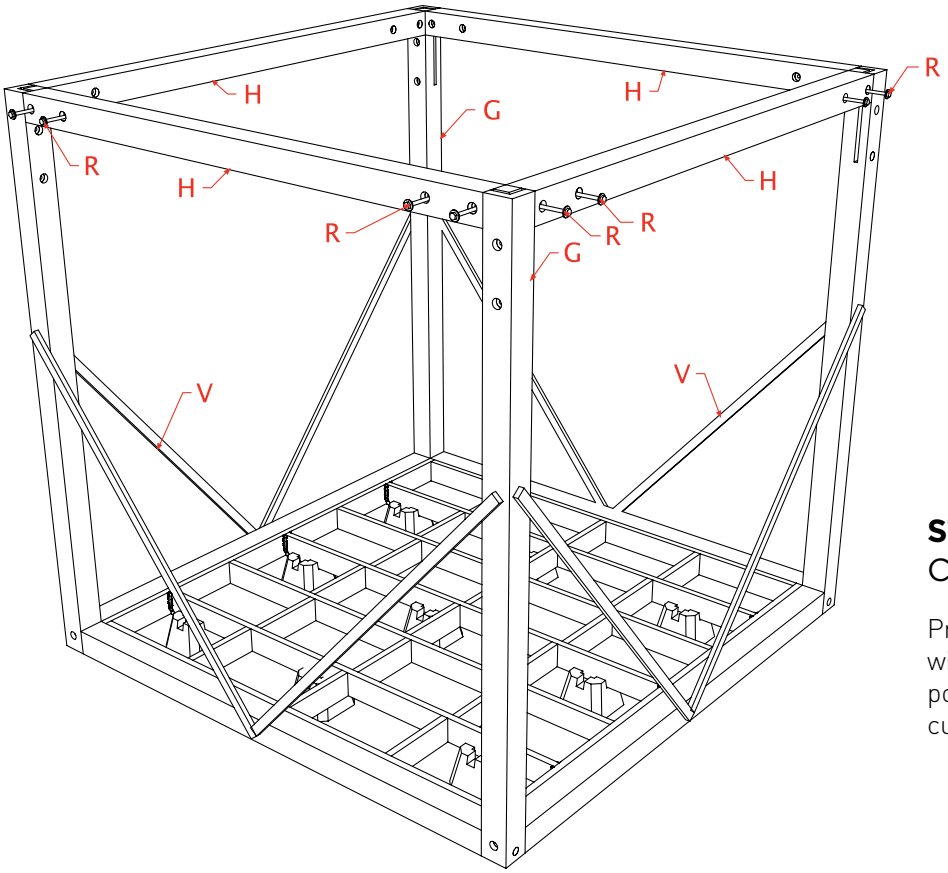






STEP 5 -
Install Corner Posts

Install (G) posts with (S) lag screws at base and stabilize with (V) temporary bracing.

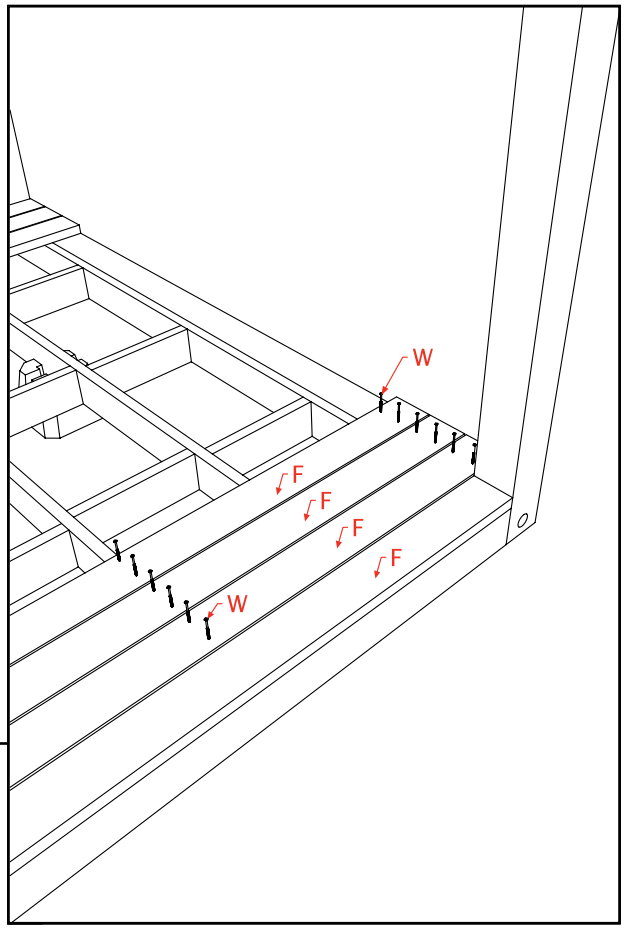


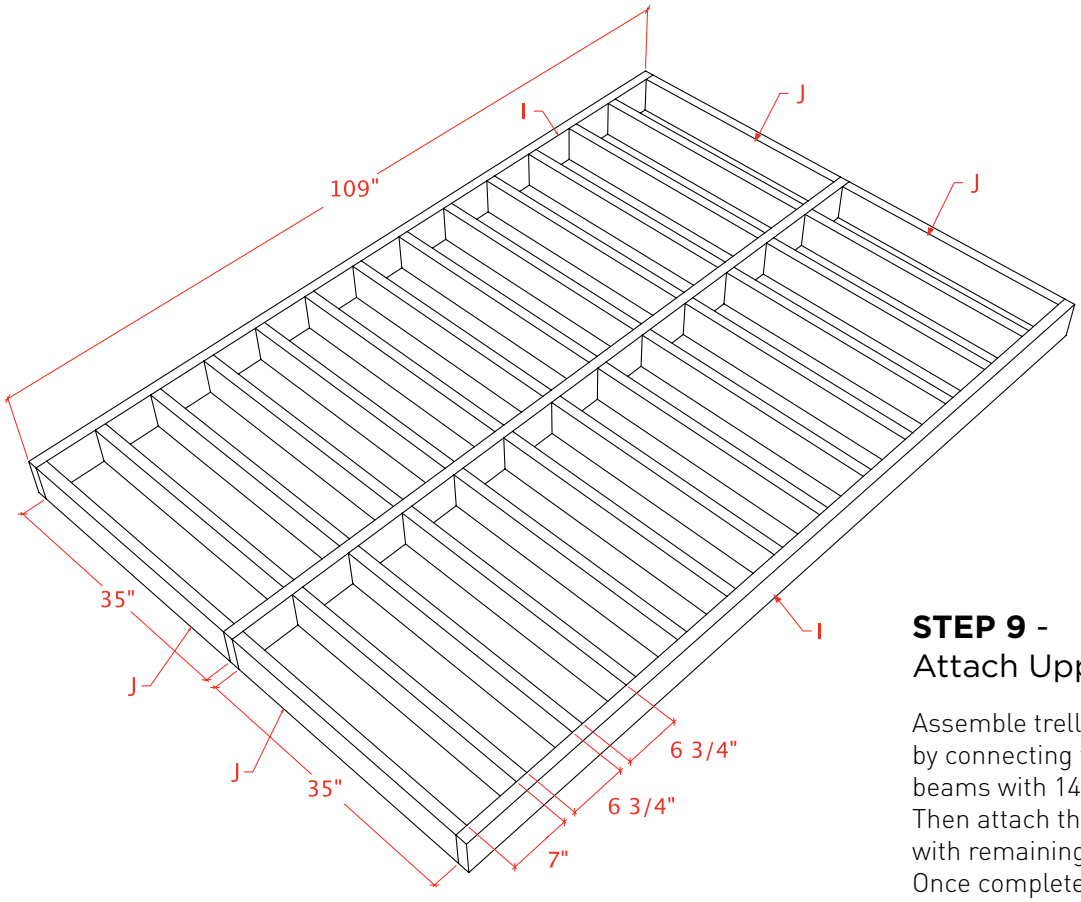
STEP 6 -
Connect Top Beams

Predrill four (H) 6 x 6 beams with four holes each and install posts using (R) lag bolts and custom brackets.

STEP 8 -
Install Decking

Install (F) 2 x 6 decking to substructure with (W) stainless steal screws, leaving 1/8" to 1/4" in between boards.



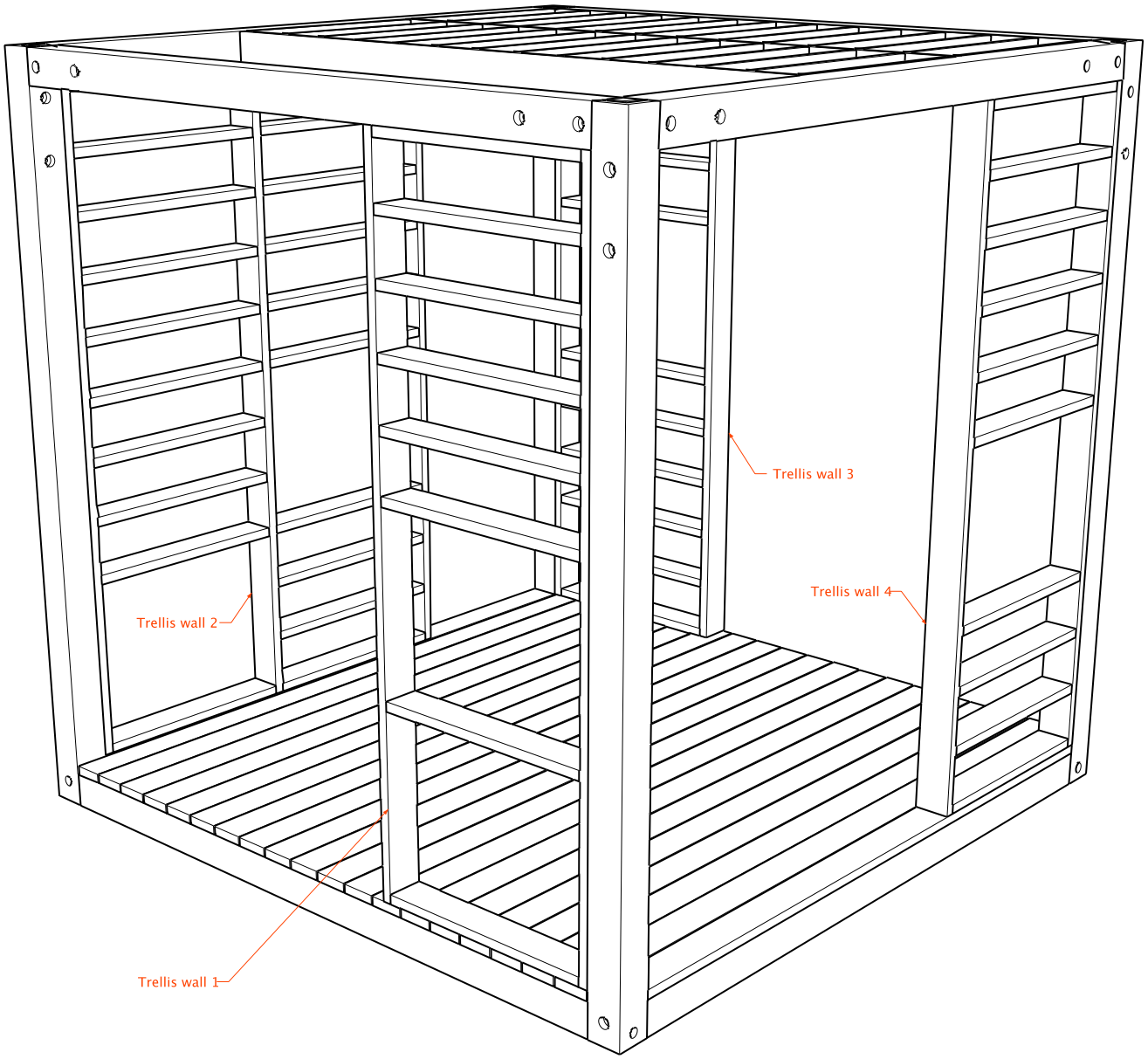


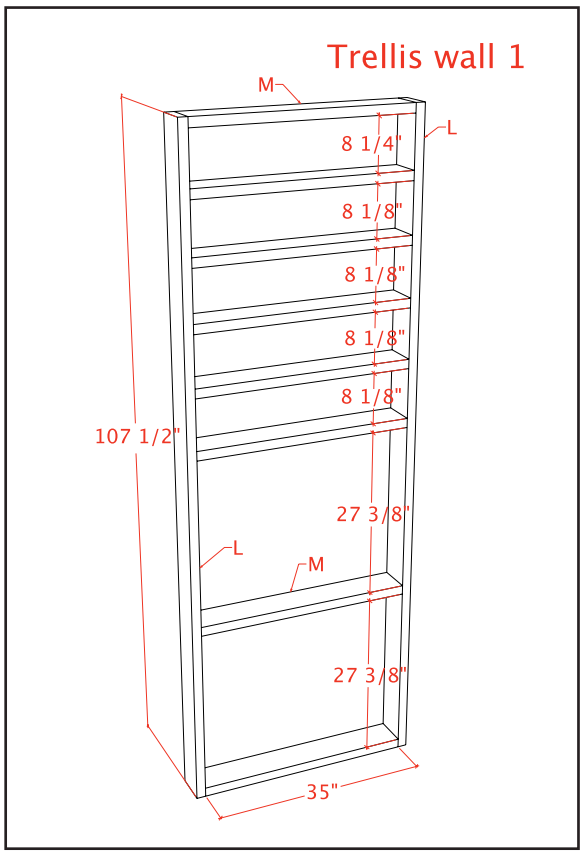
STEP 9 -
Attach Upper Trellis

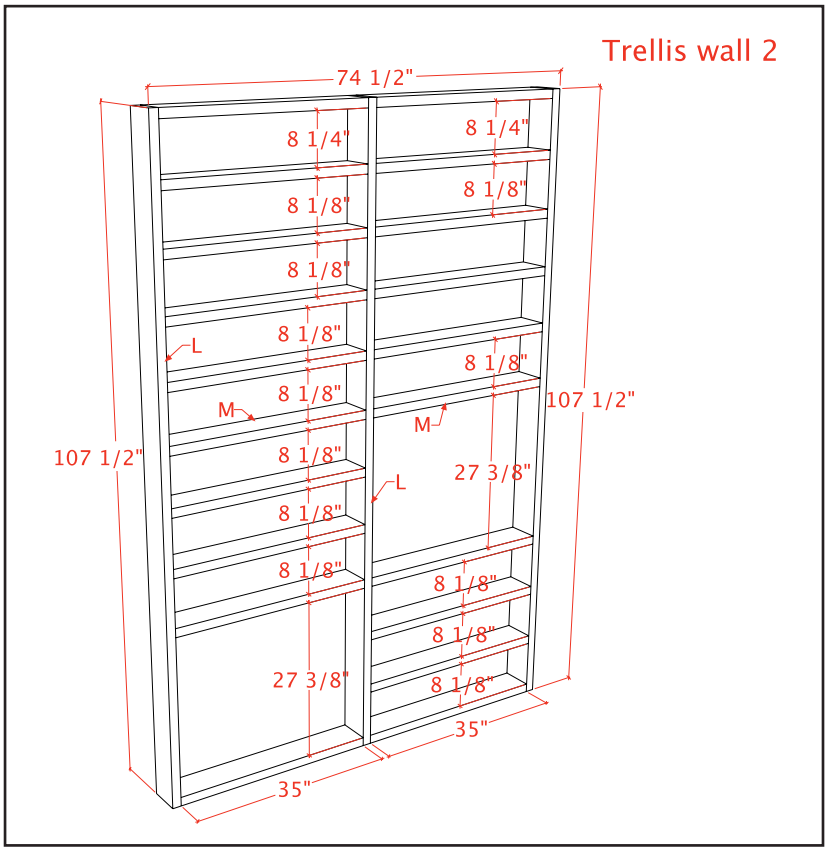
Assemble trellis on worktable by connecting two (I) 2 x 6 beams with 14 (J) 2 x 6 slats. Then attach the third (I) beam with remaining 14 (J) slats. Once completed, attach to top of pergola frame.

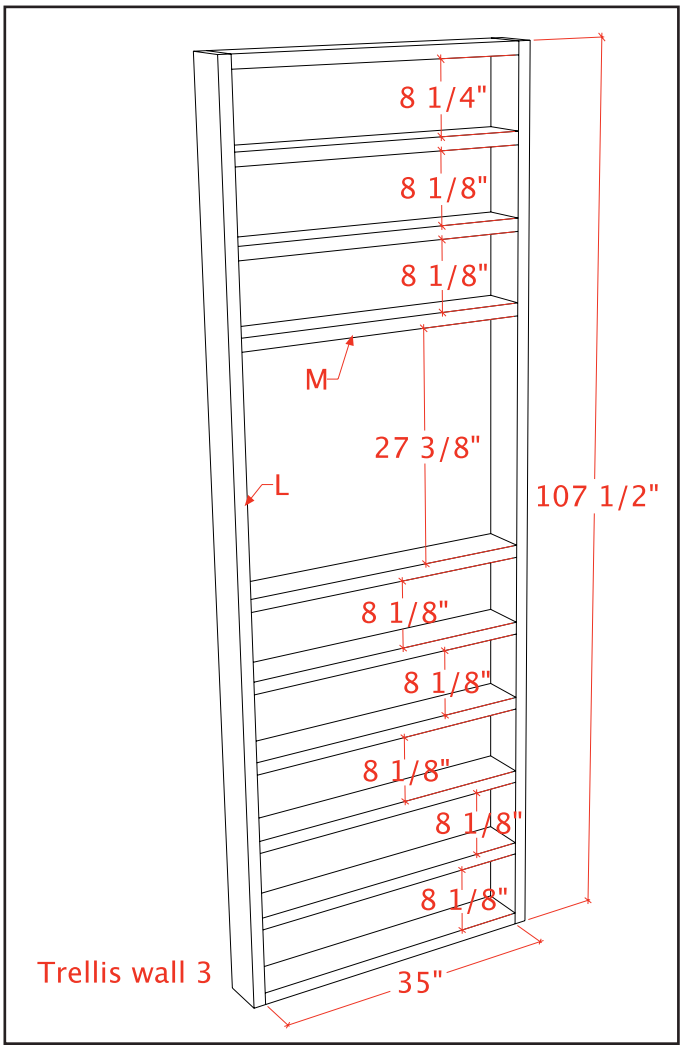
STEP 10 -
Trim the Bottom

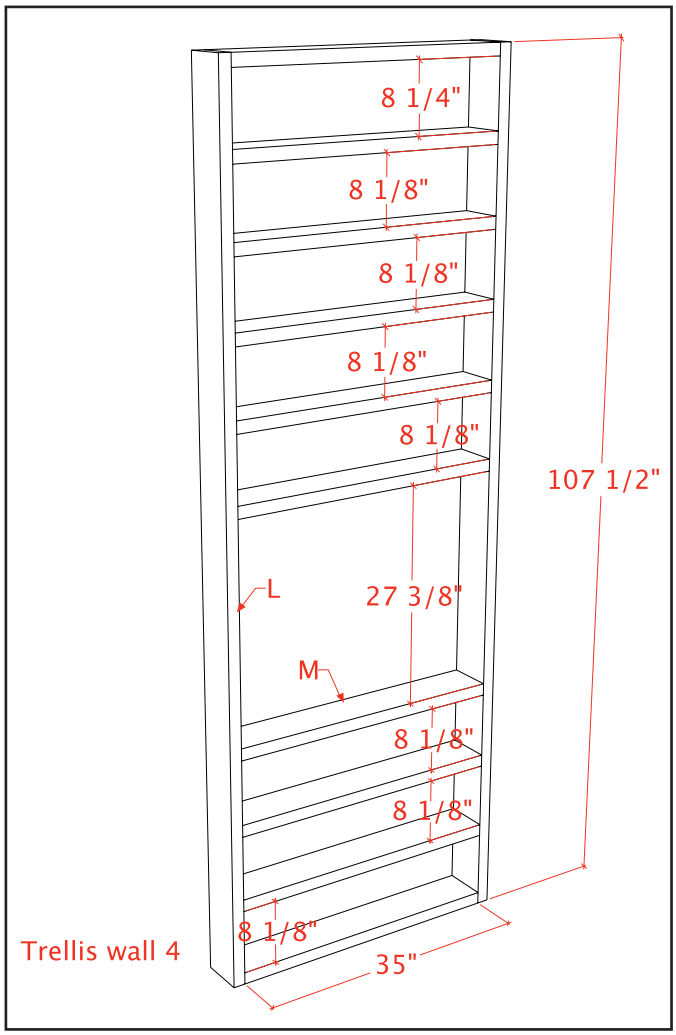
Assemble "Trellis Wall 2" first on worktable by connecting two (L) 2 x 6 frames with evenly spaced out (M) 2 x 6 slats, leaving gaps for a planter boxes. Then connect third (L) frame with (M) slats, leaving a window for second planter box. Install once completed. Use remaining (L) frames & (M) slats to build & install three separate smaller walls, leaving windows for designated planter boxes.

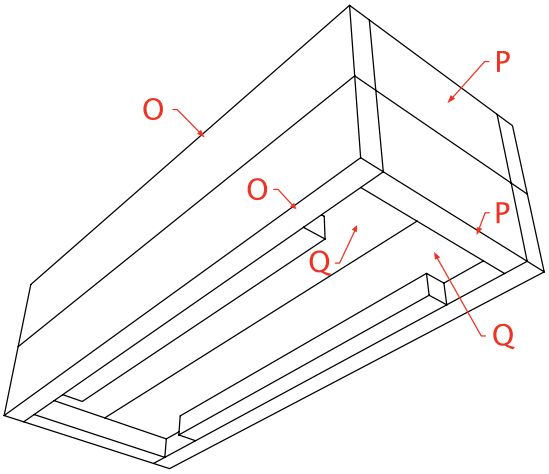



Trellis wall 1
M
L
8 1/4"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
107 1/2"
27 3/8"
L
M
27 3/8"
35"


Trellis wall 2
74 1/2"
8 1/4"
8 1/4"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
L
8 1/8"
8 1/8"
M
M
107 1/2"
107 1/2"
8 1/8"
27 3/8"
L
8 1/8"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
27 3/8"
8 1/8"
35"
35"

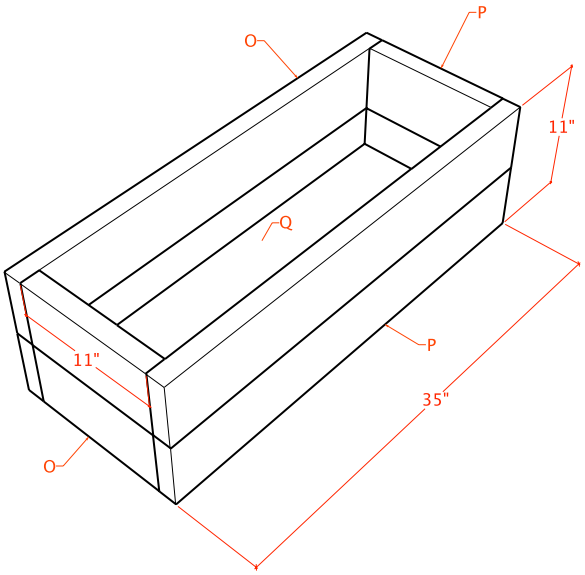

8 1/4"
8 1/8"
8 1/8"
M
27 3/8"
L
107 1/2"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
Trellis wall 3
35"

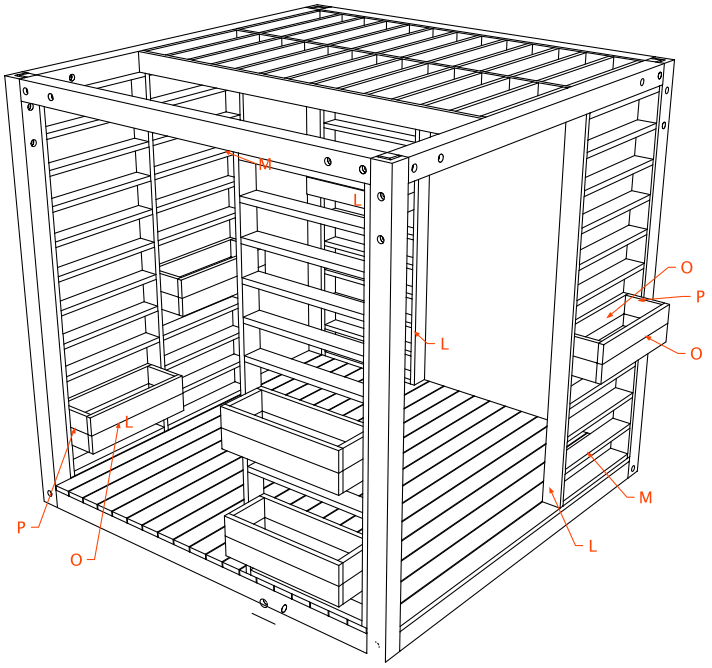

8 1/4"
8 1/8"
8 1/8"
8 1/8"
8 1/8"
107 1/2"
L
27 3/8"
M
8 1/8"
8 1/8"
Trellis wall 4
8 1/8"
35"



STEP 11 -
Building Planter Boxes

Start building each individual box by stacking two (O) back pieces. After, attach (P) sides and then (O) front pieces. Complete by attaching (Q1) bottom supports to inside of bottom (O) front and back pieces and then install (Q) bottoms, using SS screws. Then attach individual boxes to the walls.





NOTE:
If digging is required to prepare site, check with your local building department to make sure there are no underground utilities or cables.

BEST PRACTICE:
If you plan on installing an outdoor structure close to your property line, Real Cedar recommends getting written consent from your neighbors.

Instructions are subject to local building codes, so it's always best to call your local building department before you begin construction. Also, Real Cedar is not responsible for any personal injury or property damage sustained in connection to these guidelines.