

THE DIYCRAFT PLAN COLLECTION

10 x 18 ft

Single-Car Carport

Timber posts | Mono-pitch metal roof | Gravel parking

**FREE PREVIEW**

4 selected steps | Shared dimensioned construction drawings

10x18 SINGLE-CAR CARPORT

Free & Premium Editions

Free includes four selected construction steps, using the same drawings, cuts and instructions as Premium. Step numbers retain their Premium identities.



Included	Free	Premium
Dimension and model views	Yes	Yes
Construction steps	4 selected	All 7
Footing layout and detail (Step 1)	-	Yes
Materials, cut lists and tools	-	Yes
Roof decking (Step 5)	Yes	Yes
Roof framing and metal roof (Steps 4, 6)	-	Yes

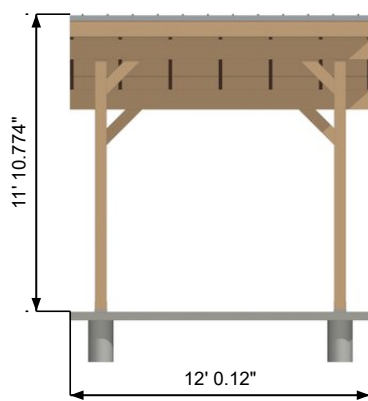
[VIEW PREMIUM PLAN](#)

10x18 SINGLE-CAR CARPORT

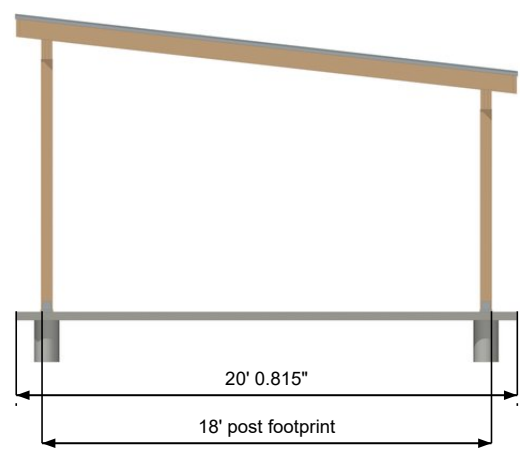
Size & Dimensions

The plan name describes the 10 x 18 ft outside-post footprint. Dimensions below describe the fitted model; heights start at finished gravel level ($z = 0$).

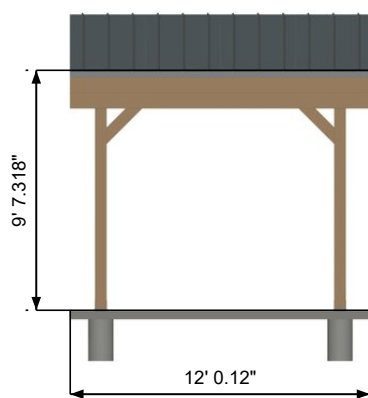
HIGH END



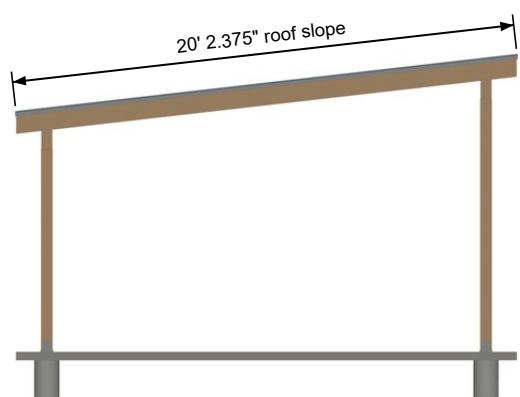
RIGHT SIDE



LOW END



LEFT SIDE



Four elevations use the same scale. Fitted slope is 6.504 degrees; the original 7-degree label is rounded. Metal rib and flashing profiles are schematic; choose and verify the actual roofing system.

10x18 SINGLE-CAR CARPORT

Model View

HIGH END / ENTRY

LOW END / REAR



Four nominal 6x6 posts support two triple-ply end headers. Seven engineered rafters run down the long roof slope; four knee braces tie the short ends. The source 10 ft / 8 ft posts and 114.5 x 210.5 in centre spacing govern the fitted 6.504-degree slope. The deck and metal roof cover the same 144 x 242.375 in roof-plane envelope.

The cover illustrates the finished appearance; landscaping is excluded. Purchased post bases and caps are schematic. Ties and fixing schedules follow the selected products. Do not load or use the structure before its permanent connections and site design have been checked.

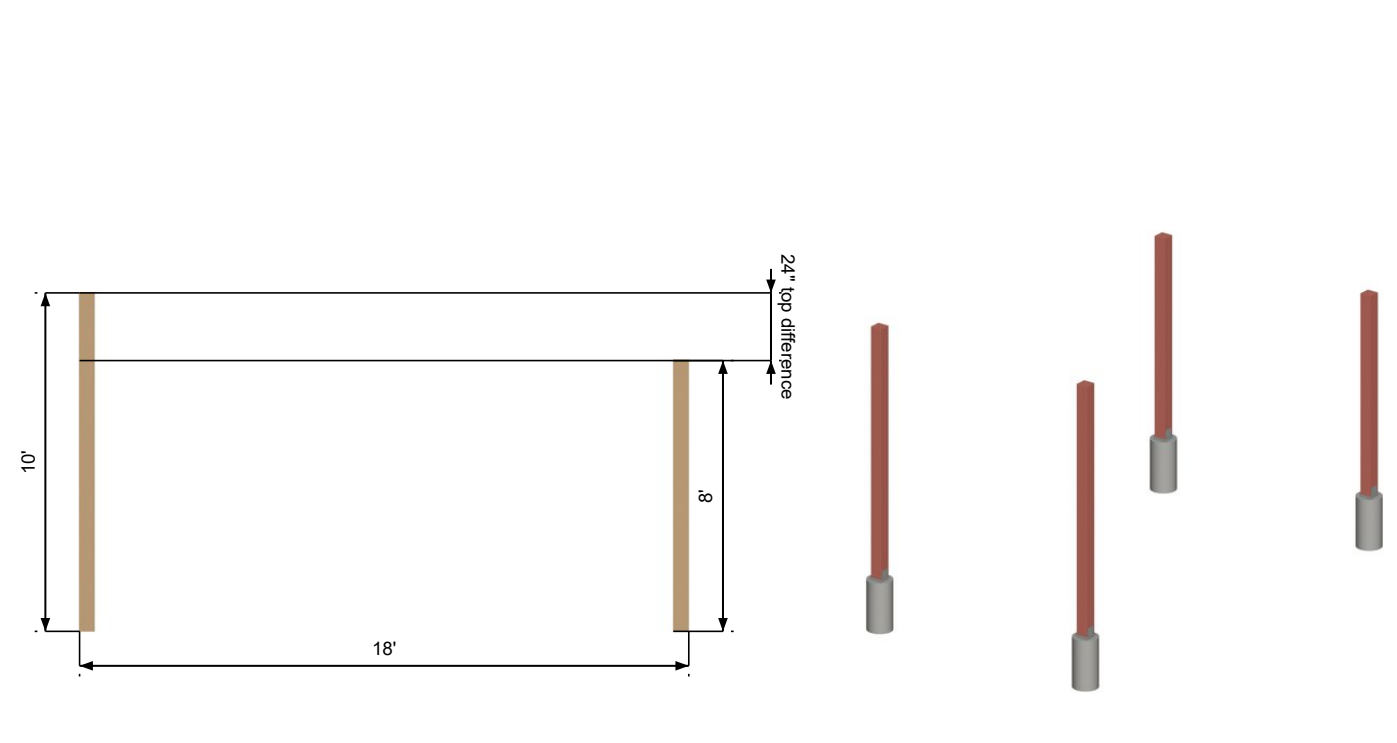
STEP 02 / 07

Install the high and low posts

Cut the two high-end and two low-end posts, stand them in the bases, then plumb and temporarily brace every post.

POSTS / SIDE ELEVATION

ASSEMBLY / NEW PARTS IN RED



PART / ACTUAL CUT	QTY / ASSEMBLY
A / High-end posts; 5.5 x 5.5 x 120 in	2
B / Low-end posts; 5.5 x 5.5 x 96 in	2

Posts are nominal 6x6, actual 5.5 in square. Their outside footprint is 120 x 216 in and their clear width is 109 in. Keep the high end at the entry. Fix posts to the selected bases using their rated bolts and connector fasteners. Retain bracing until the roof and permanent lateral-load connections are complete.

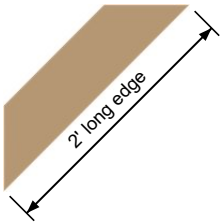
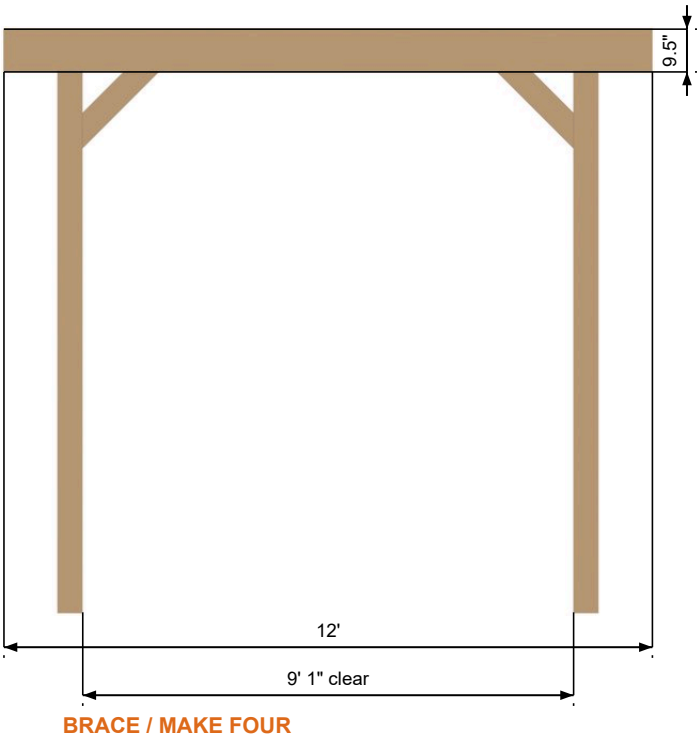
STEP 03 / 07

Assemble headers and braces

Build one three-ply header across each end, fit the four diagonal braces, then secure the header-to-post and brace connections.

HIGH END / LOW END HAS 96 IN POSTS

ASSEMBLY / NEW PARTS IN RED



PART / ACTUAL CUT	QTY / ASSEMBLY
A / Header plies; 1.75 x 9.5 x 144 in	6
B / Knee braces; 5.5 square; 24 in long edge	4; 45-degree ends

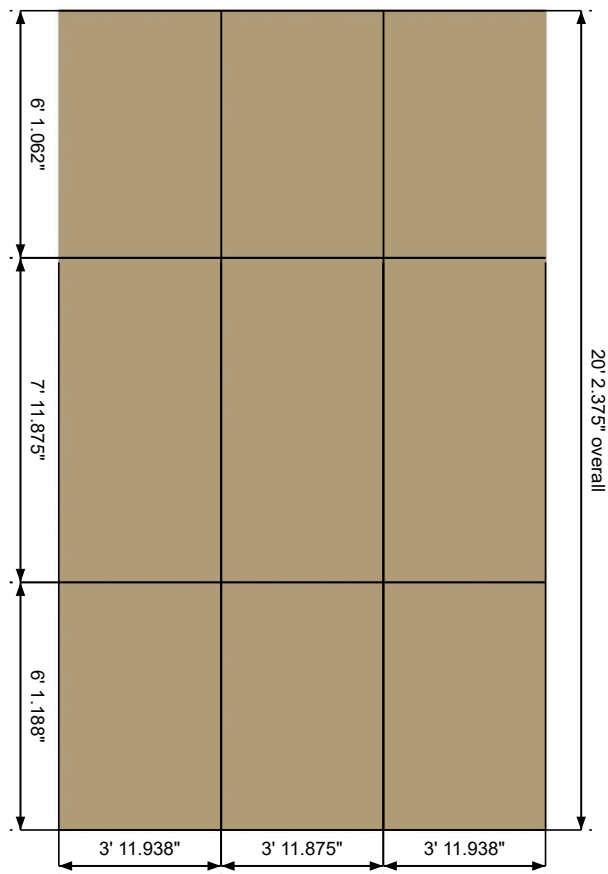
Each header uses three 1.75 x 9.5 x 144 in LVL plies (5.25 in built width). The four 6x6 braces have 24 in long edges and 45-degree end cuts; fit each vertical end against its post and horizontal end beneath the header. Use a designed ply-fastening and bracing schedule. The source 3 in and 5 in screw counts are purchasing allowances, not a rated connection design.

STEP 05 / 07

Install the roof decking

Fit nine roof-deck panels with their joints over rafters and blocking; maintain the specified expansion gaps and secure to the approved deck-fastening schedule.

ROOF PLANE / INSTALLED PANEL SIZES



ASSEMBLY / NEW PARTS IN RED



PART / ACTUAL CUT	QTY / ASSEMBLY
A / High course; 73.0625 in slope	3; widths shown
B / Middle course; 95.875 in slope	3; widths shown
C / Low course; 73.1875 in slope	3; widths shown

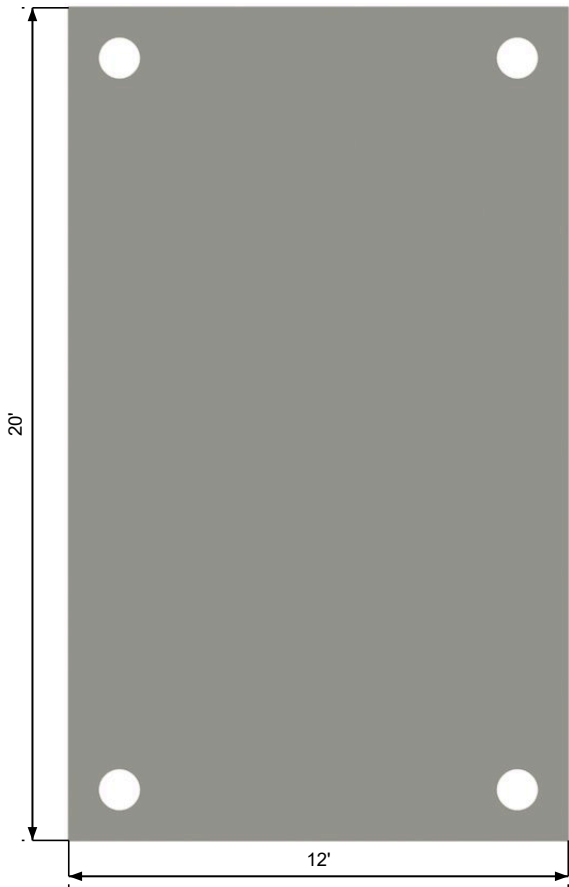
Deck thickness is 0.5 in. Begin with nine 48 x 96 in exterior structural sheets. Rough course lengths are 73.125, 96 and 73.25 in; the drawing shows final pieces after deducting 0.125 in internal joints. Use the selected panel manufacturer's span rating, edge support and fastening requirements. Stagger or reinforce joints if required by the approved diaphragm design. Do not stand on unsupported sheathing.

STEP 07 / 07

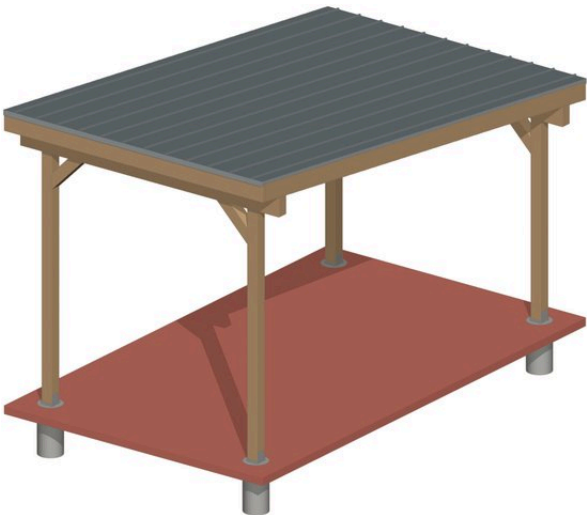
Finish the gravel parking pad

Clear the parking area, prepare a free-draining subgrade, and compact angular gravel in layers around the completed footings and post bases.

PARKING PAD / PLAN



ASSEMBLY / NEW PARTS IN RED



PART / ACTUAL CUT	QTY / ASSEMBLY
Angular crushed stone / compacted layer	12 x 20 ft x 4 in
Exterior timber finish and end-grain treatment	As selected for the actual material

The source pad is 12 x 20 ft and 4 in deep: about 2.96 cubic yards compacted before subtracting the four pier volumes (about 2.85 cubic yards net). Purchase allowance depends on compaction and the supplier. Keep the timber above finished gravel, provide drainage away from the footings and maintain clear vehicle access. Seal cut ends and finish exposed timber with a compatible exterior coating; inspect all final connections.

10x18 SINGLE-CAR CARPORT

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