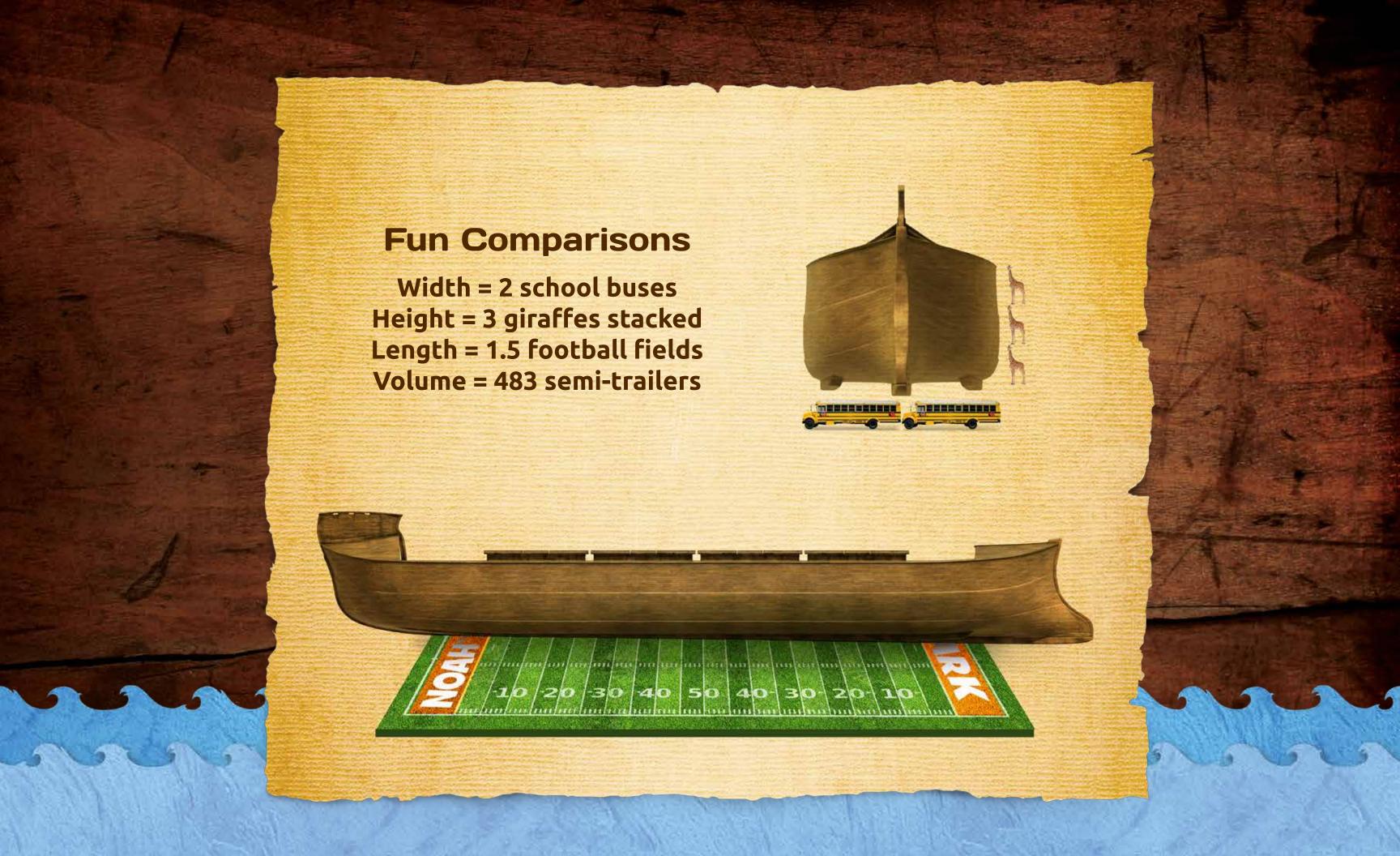
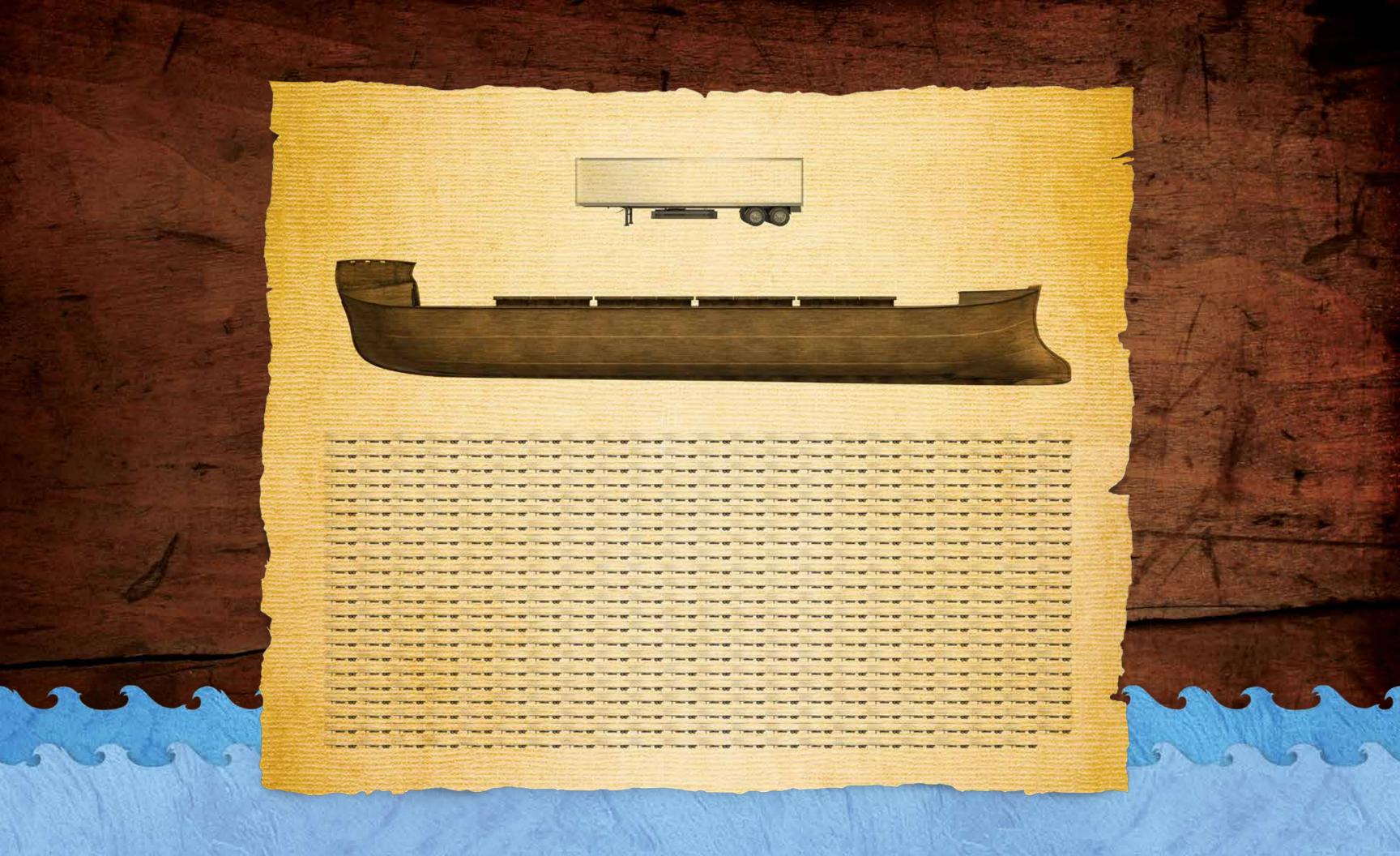


Why the Hebrew Long Cubit? We don't know what cubit length Noah used to build the Ark, but we know that in large-scale construction projects ancient civilizations usually used the long cubit. In the Old Testament we read that Solomon used an older long cubit in the construction of the temple. We can assume Noah probably used a long cubit for the construction of the Ark. So for the Ark Encounter we decided to use the length of the Hebrew long cubit. 20.4 Inches

A Cubit A cubit is divided into several segments though these varied like the cubit lengths. **A** Handbreadth Five handbreadths make up a cubit. A handbreadth can be divided into 4 finger widths. A Span A span is half of a cubit. One span is two and a half handbreadths.





The Wood

The big logs come from trees that were killed by a beetle infestation. Most of the other timber comes from renewable forests.



Round logs

Engelmann Spruce and Douglas Fir Utah, Colorado

- (64) logs, 28" to 38" dia. X 48' long
- (56) logs, 20"+ dia. X 18' long
- (4) logs, external braces from deck 3 to ground level, 32"+ dia. X 52' long. At Grid 1 & Grid 31.

Heavy timber

Douglas Fir

Oregon, Washington

- (64) 20" X 20" X 32' long
- (64) 18"X 18" X 18' long

Floor joist, decks 2 and 3, and roof deck, 6' c/c, 16" X 18" full length and width of Ark. Girder beams, four per deck, full length of the Ark. Timber braces all decks.



























Glulaminated members

Southern Yellow Pine

Georgia, Alabama

166 ribs for exterior wall of the Ark. 10.5" X 22" X 55' tall 12" X 5'-0" X 680' in total length from Bow to Stern.

Wood decking & Flooring Decking, 600,000 board feet (bf); 76 miles of decking.

Bamboo flooring, 290,000 bf; 55 miles of flooring.

Ark, exterior cladding

1" X 10", 185,000 bf; 35 miles.

(ACCOYA natural wood, 50 year warranty, will weather gray)

Ark interior cladding

(on exterior walls) 94,000 bf; 18 miles.

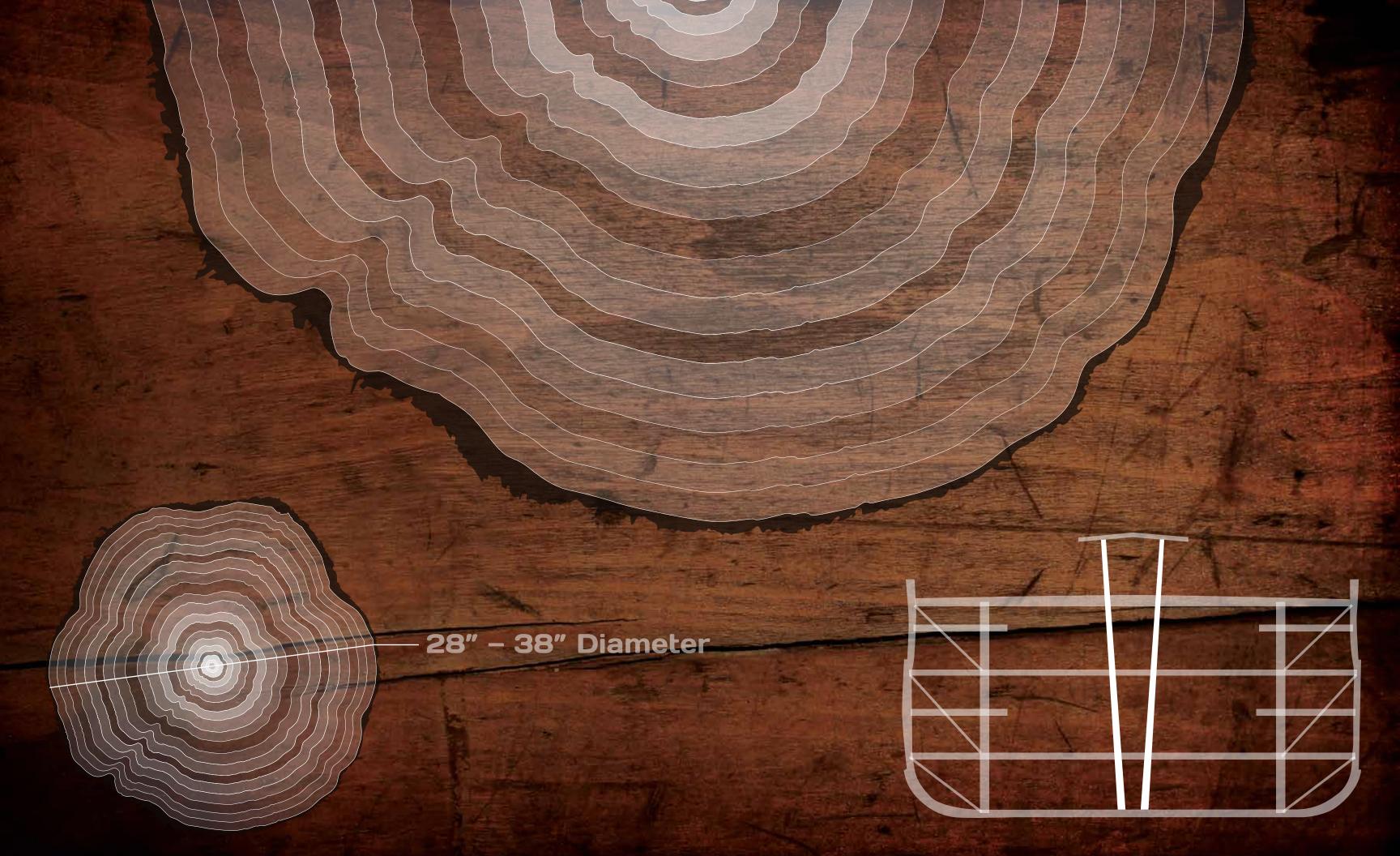
Plywood

4' X 8', 15, 150 sheets.

Safety railings 2" x 4"; 4 miles.

Rain vent/cavity

Behind ACCOYA cladding, 3/8" X 2"; 17 miles.



All Accounted For

Each piece of wood is prepared off site for a specific location within the Ark. While off site, each plank and beam is assigned a number, so when it arrives at the Ark site, the builders know the exact location it is intended to go.

Won't Tumble Down

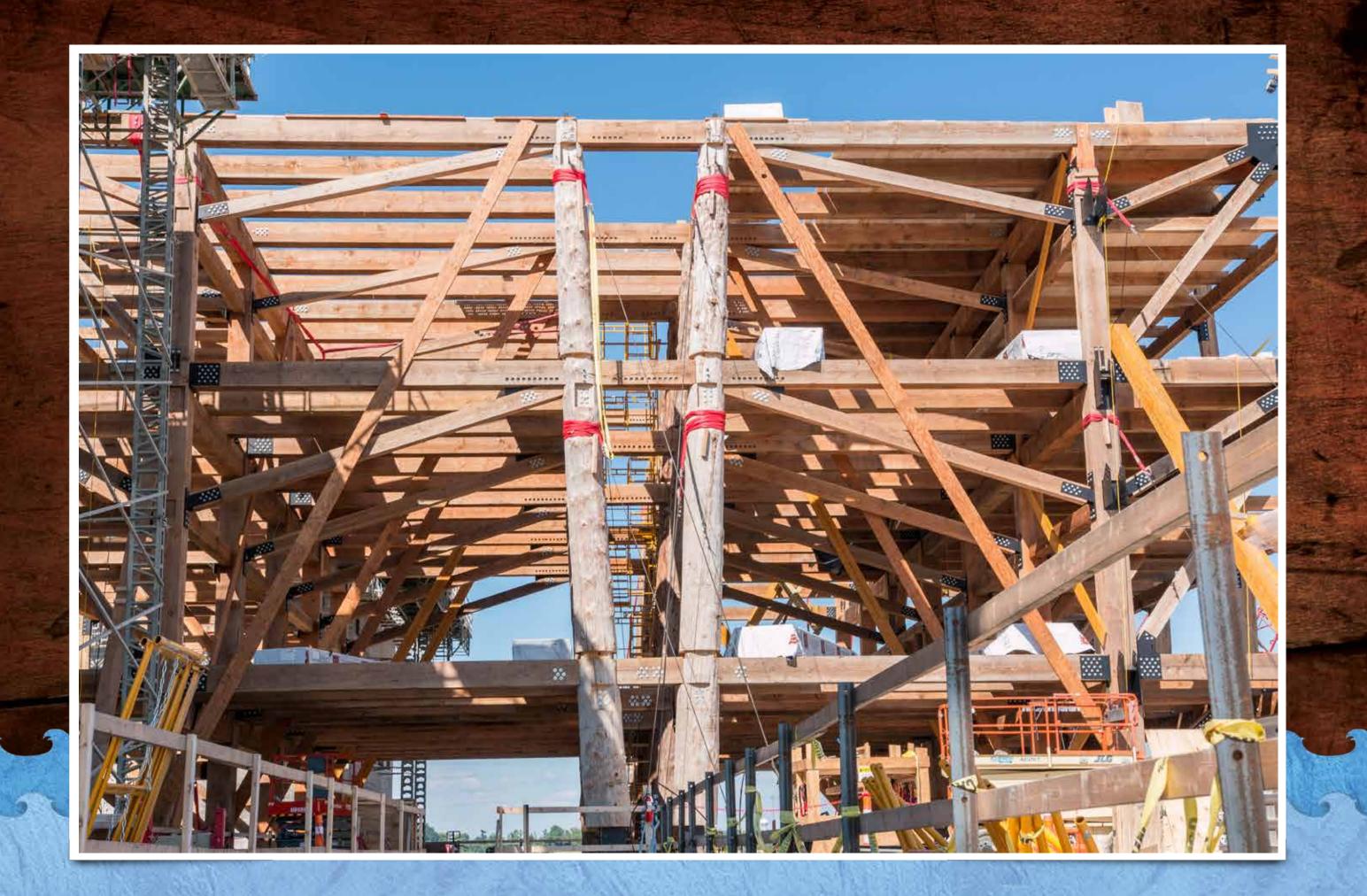
The planks and beams are being cut off site. The accuracy has to be within 1/32 of an inch variance to ensure that the Ark will stay standing. The cut has to be precise because of the weight of the center beams.













constructed. The keel will be 12.5 feet off the ground.











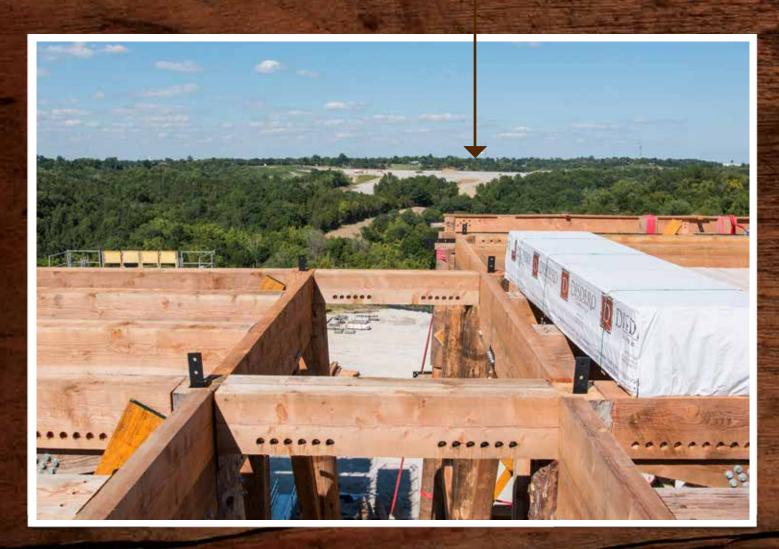








Parking Lot





The Ark Encounter sits on 200 acres

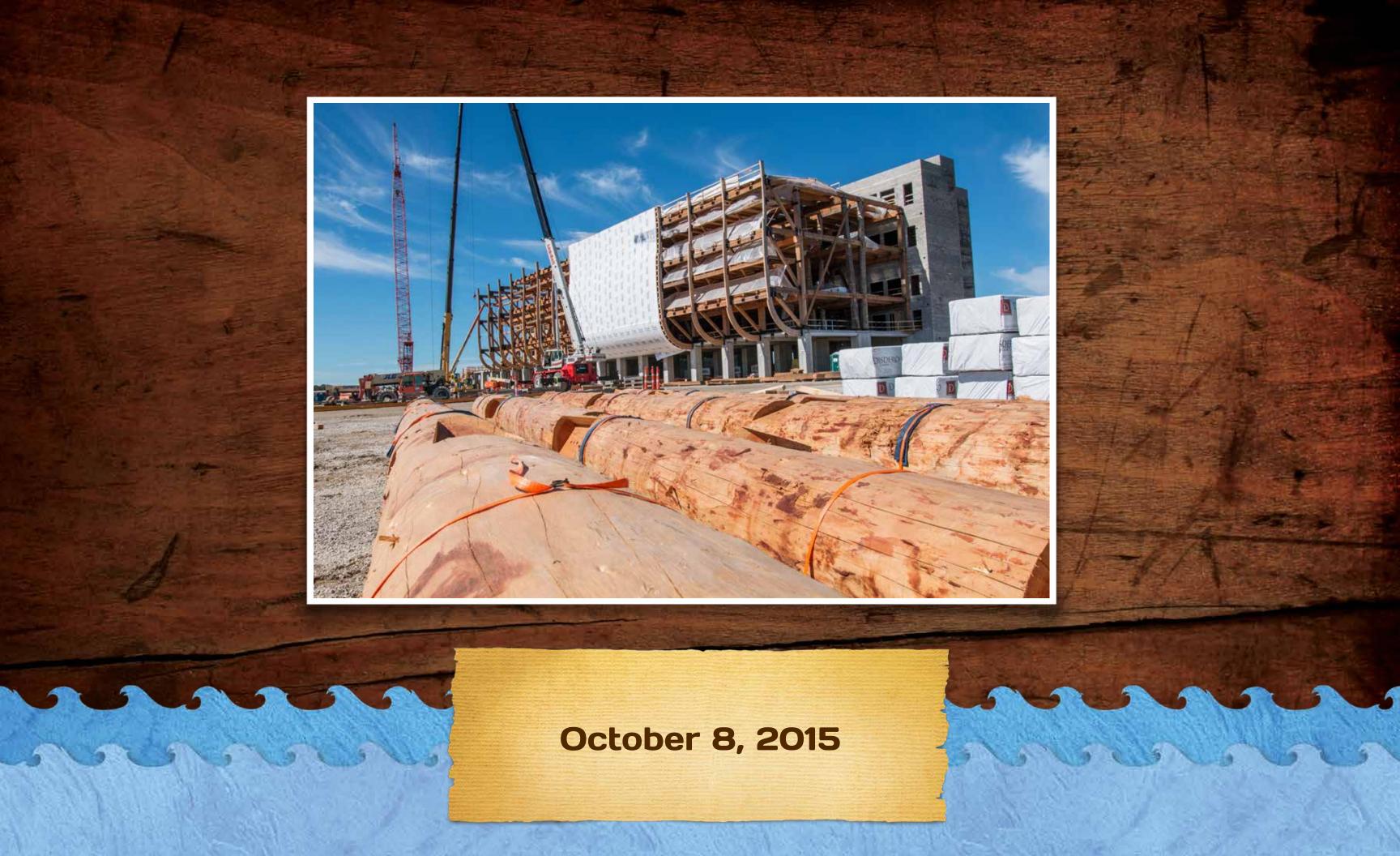


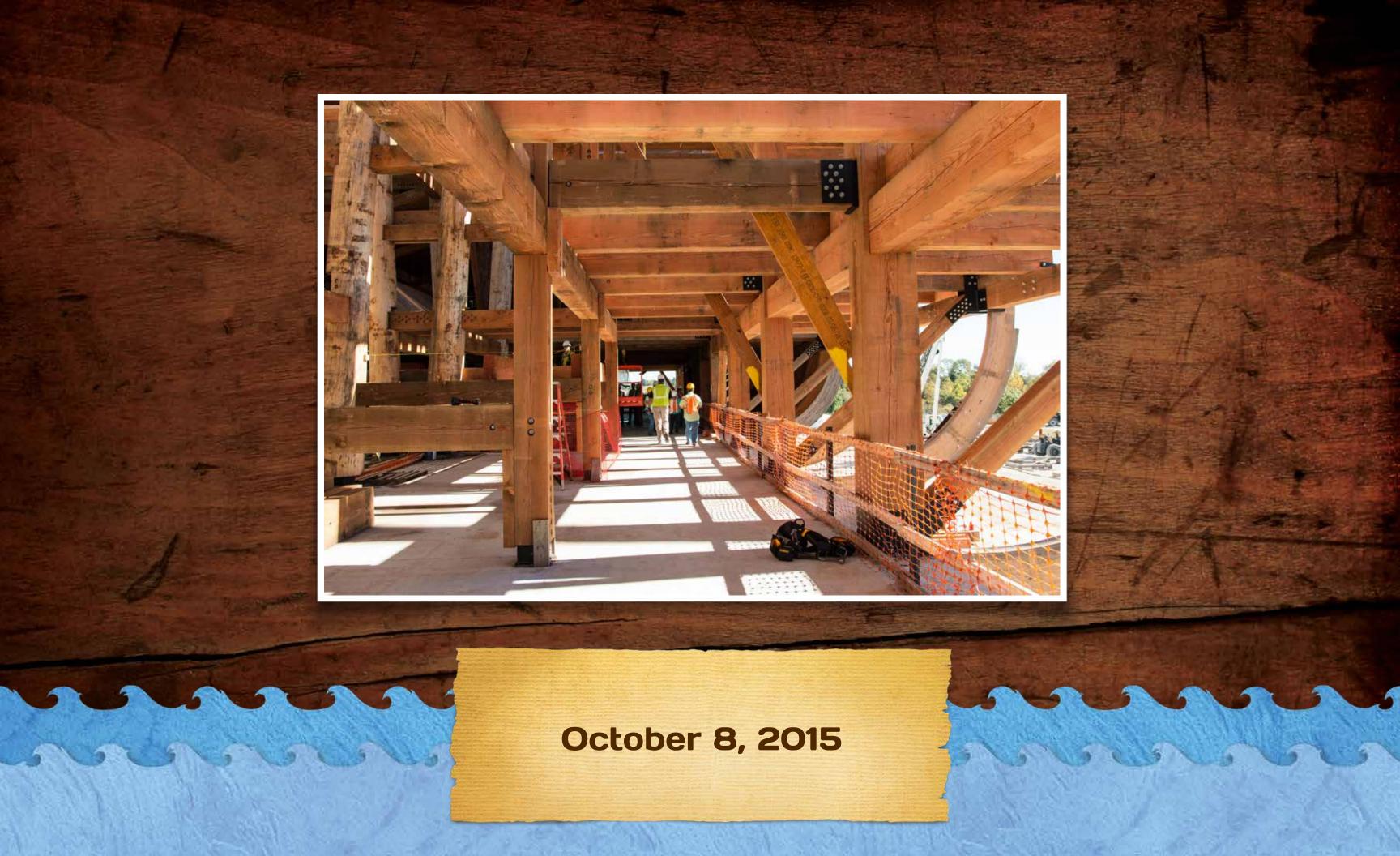




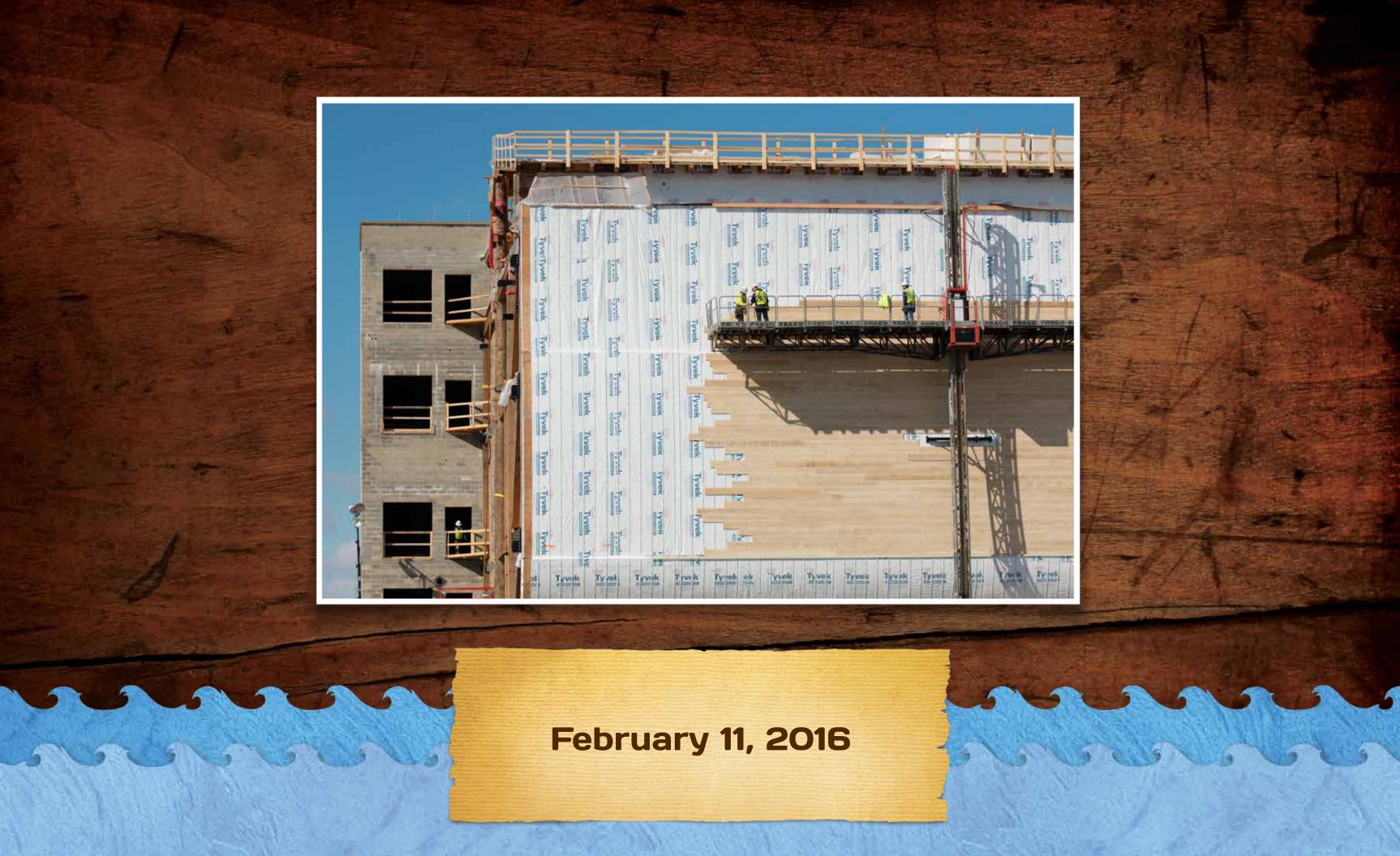














103 Concrete Piers Concrete on the Ark? 3,500 yards of poured concrete and approximately 6,000 yards of concrete in precast slabs will be used in the construction. Because of the massive size of the Ark, to be within building code regulation, the first floor must be concrete. So the Ark will be built around the concrete floor. As a guest, you will be able to walk under the Ark. These piers stretch the height of 12.5 feet above the ground level to the underside of the Ark; 15 feet from the ground level to deck 1 of the Ark.



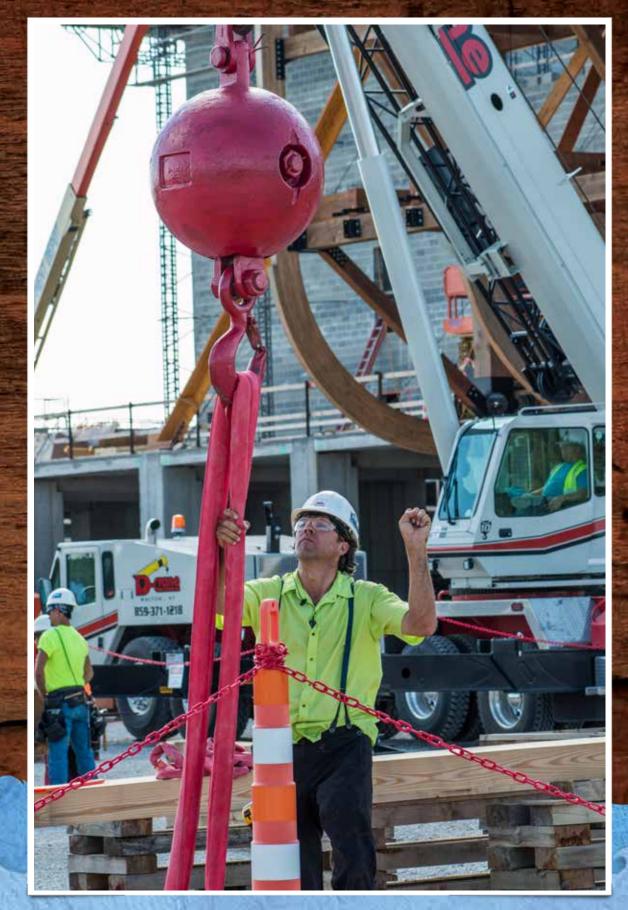


Solid Foundation

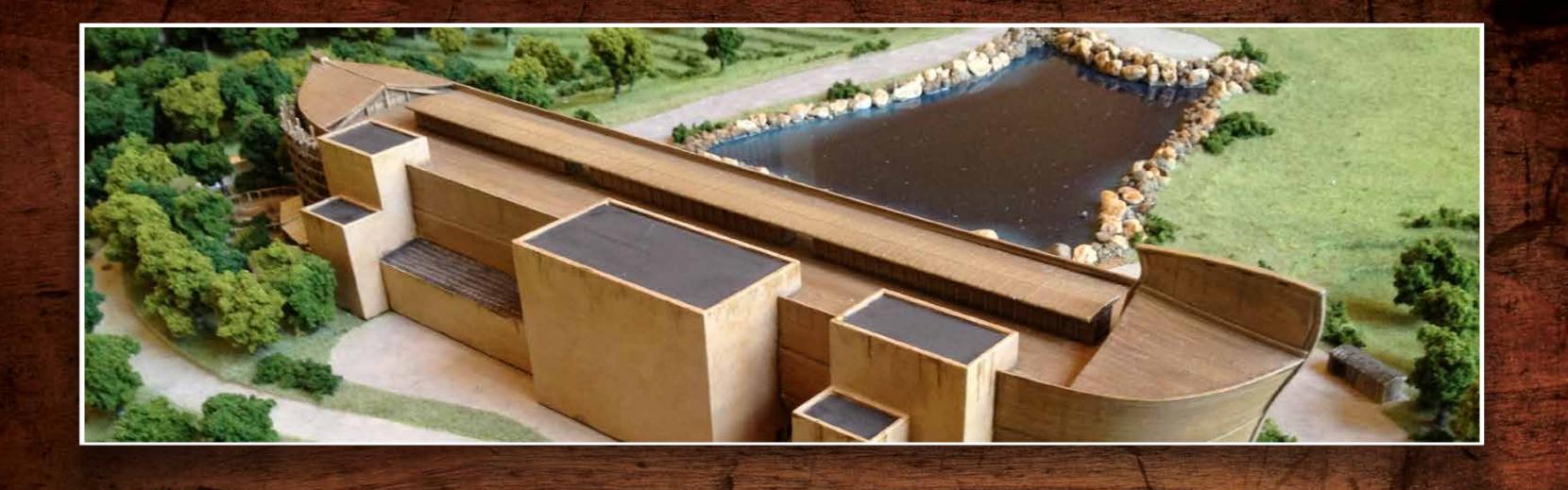
Half a million cubic yards of dirt were moved to prepare the Ark site.

Some places were lowered by about 40 feet. Four feet under the site was solid rock—so the foundation for each pier sits on solid rock.





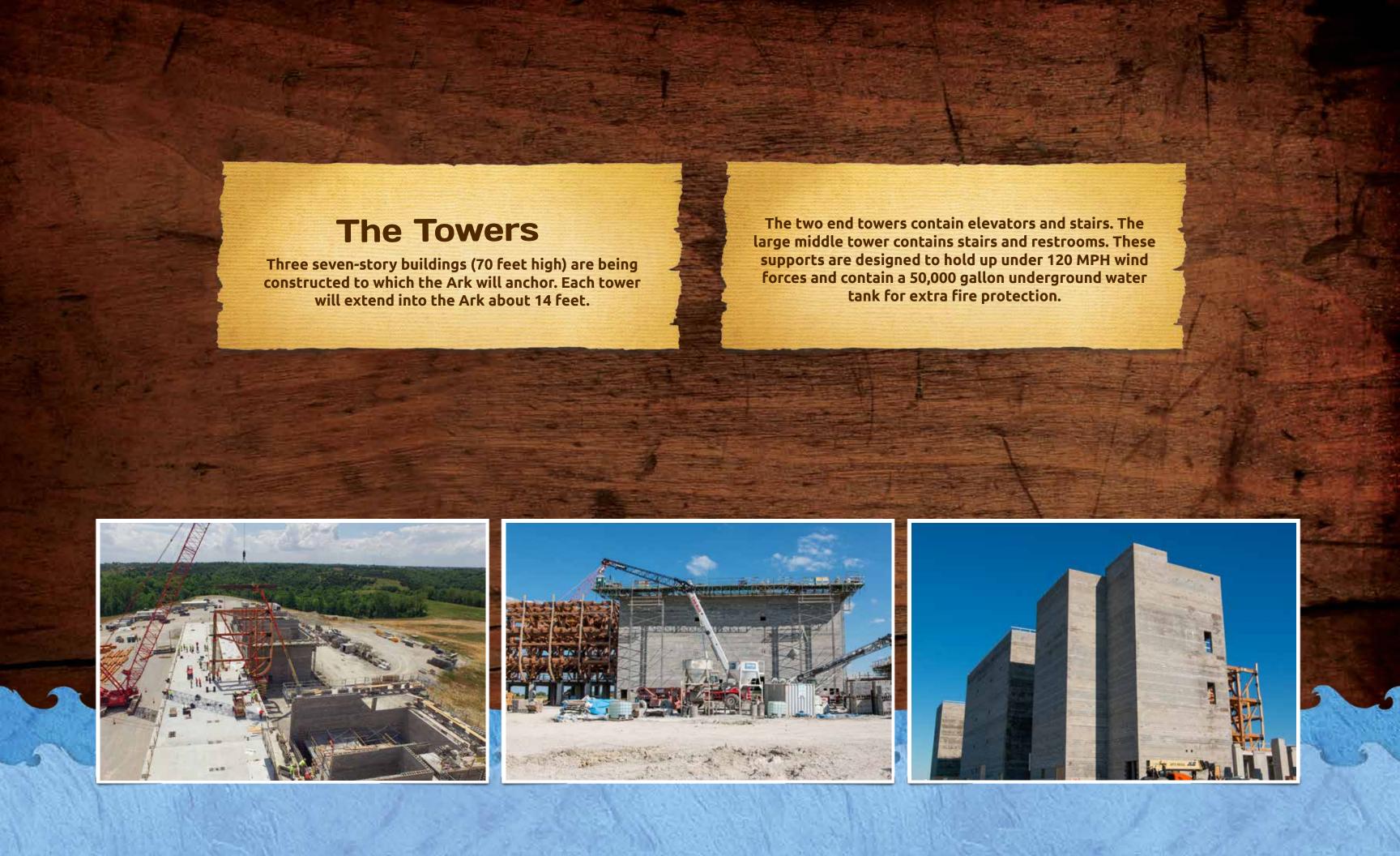








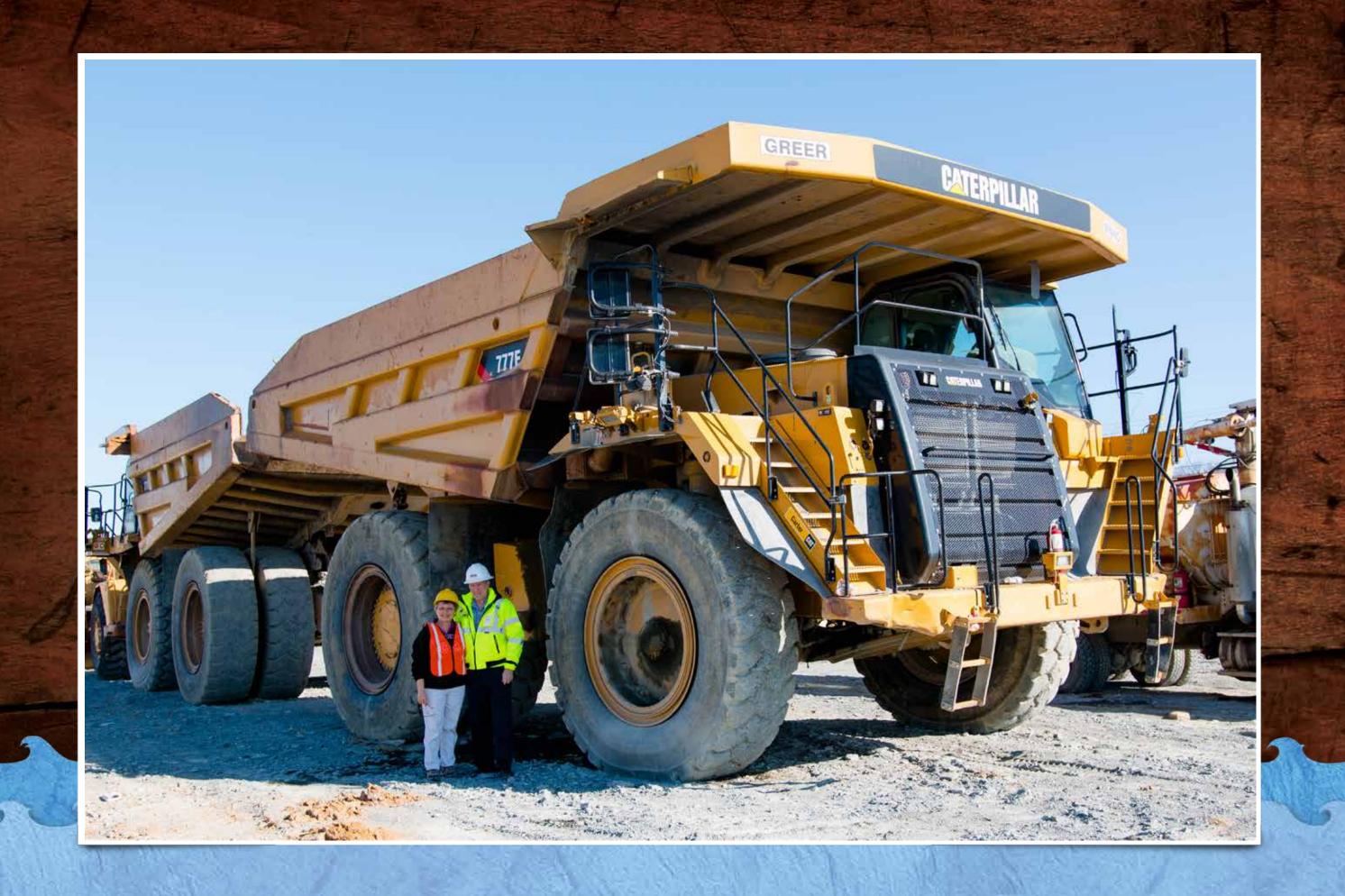


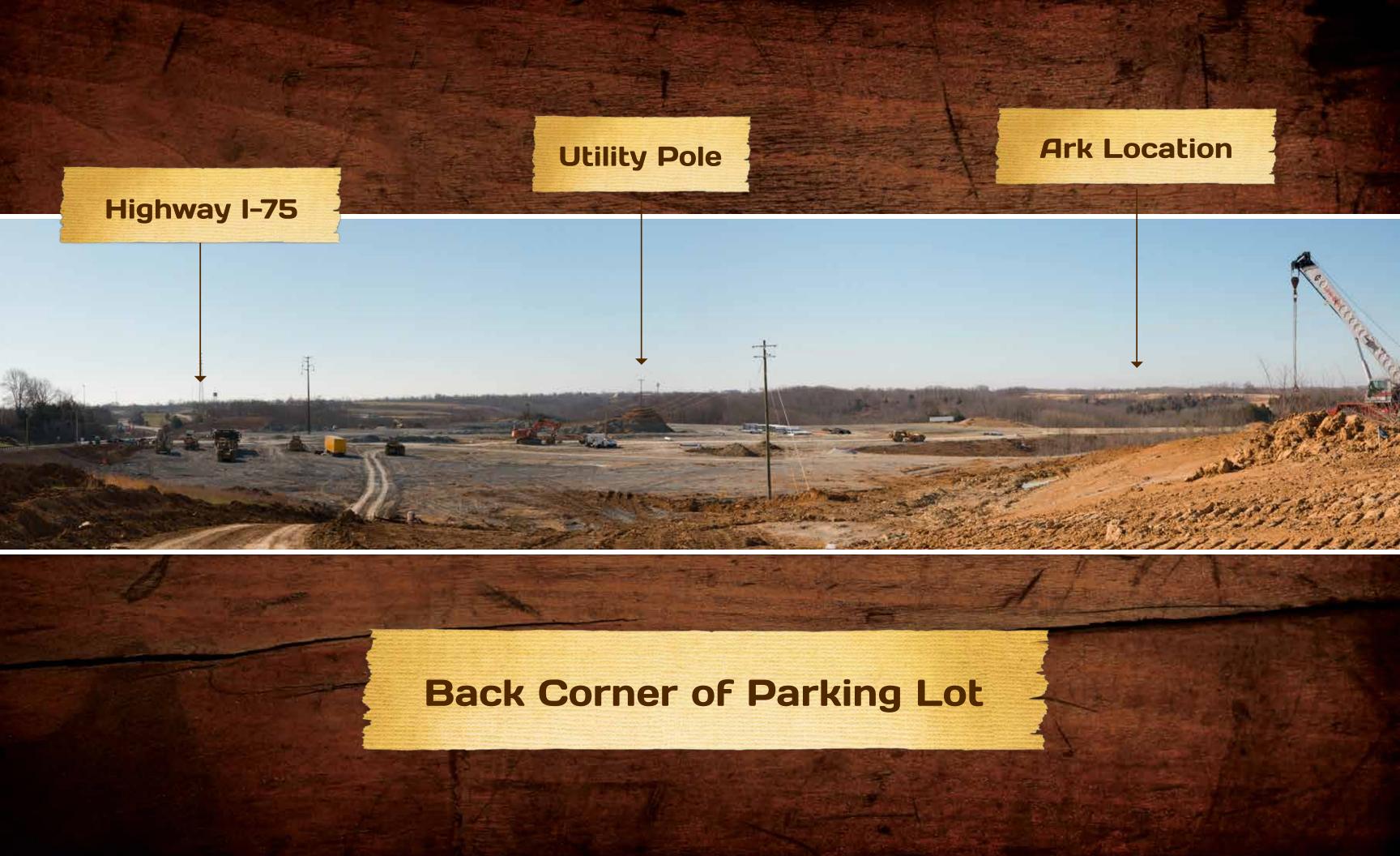


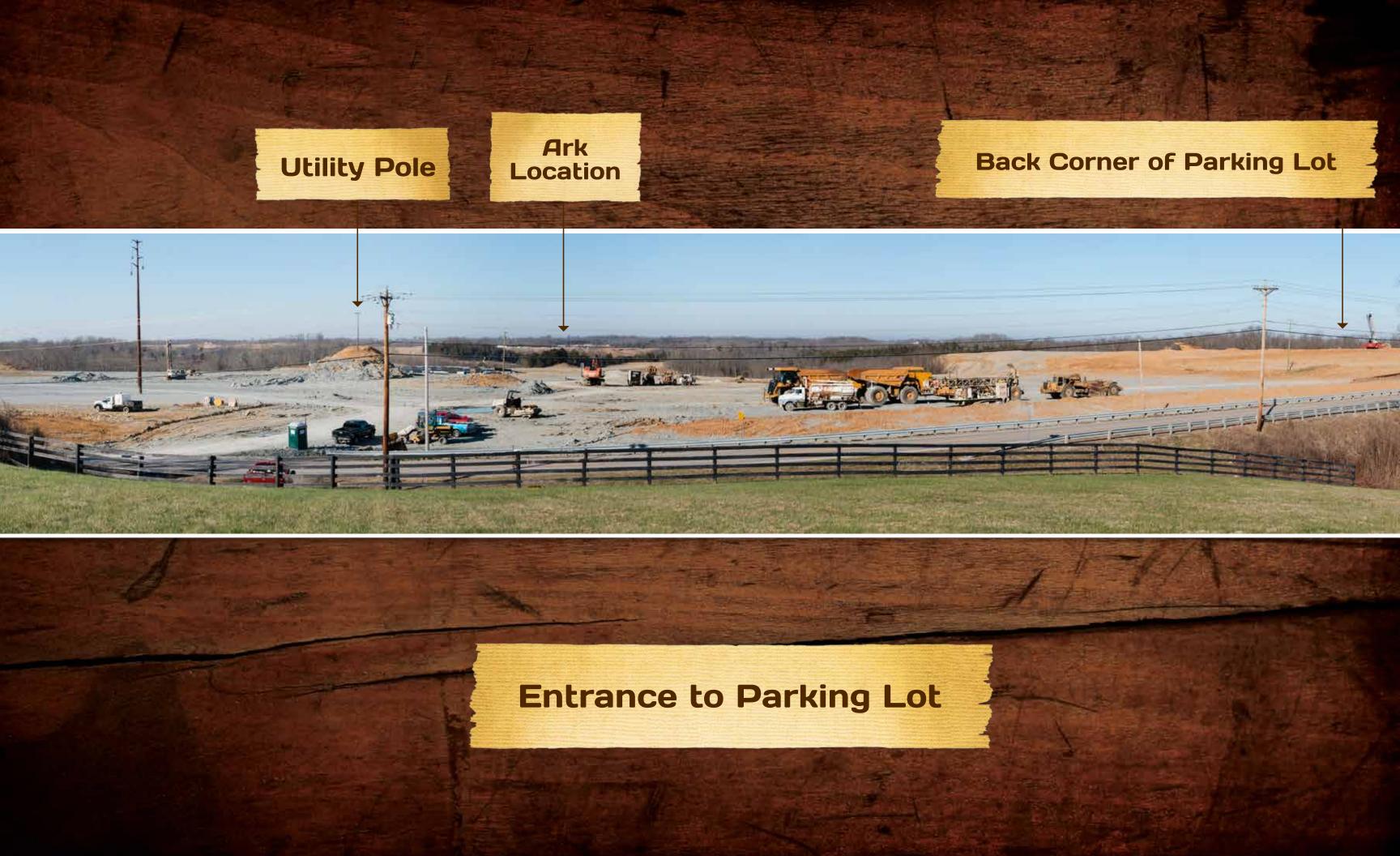


















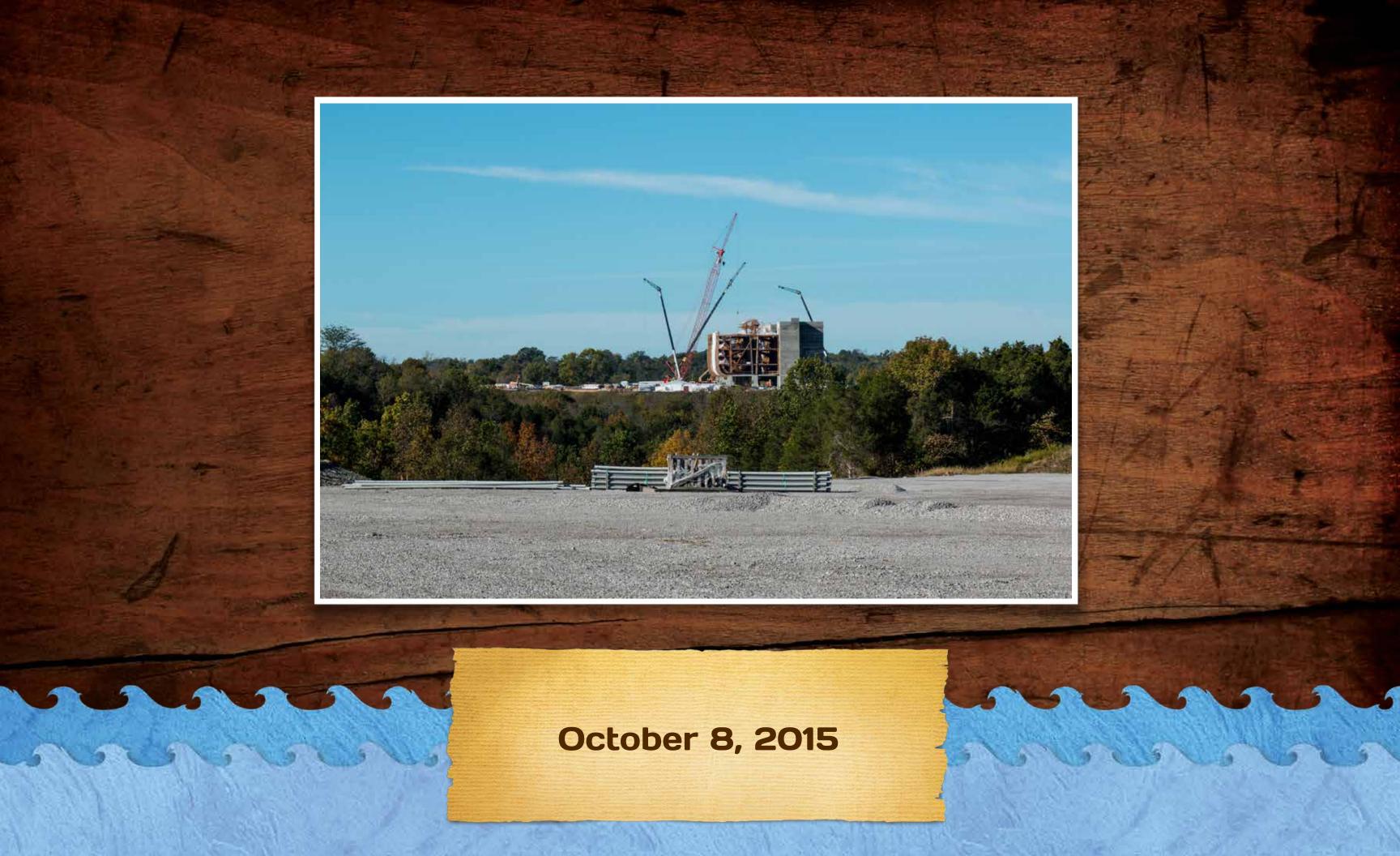




















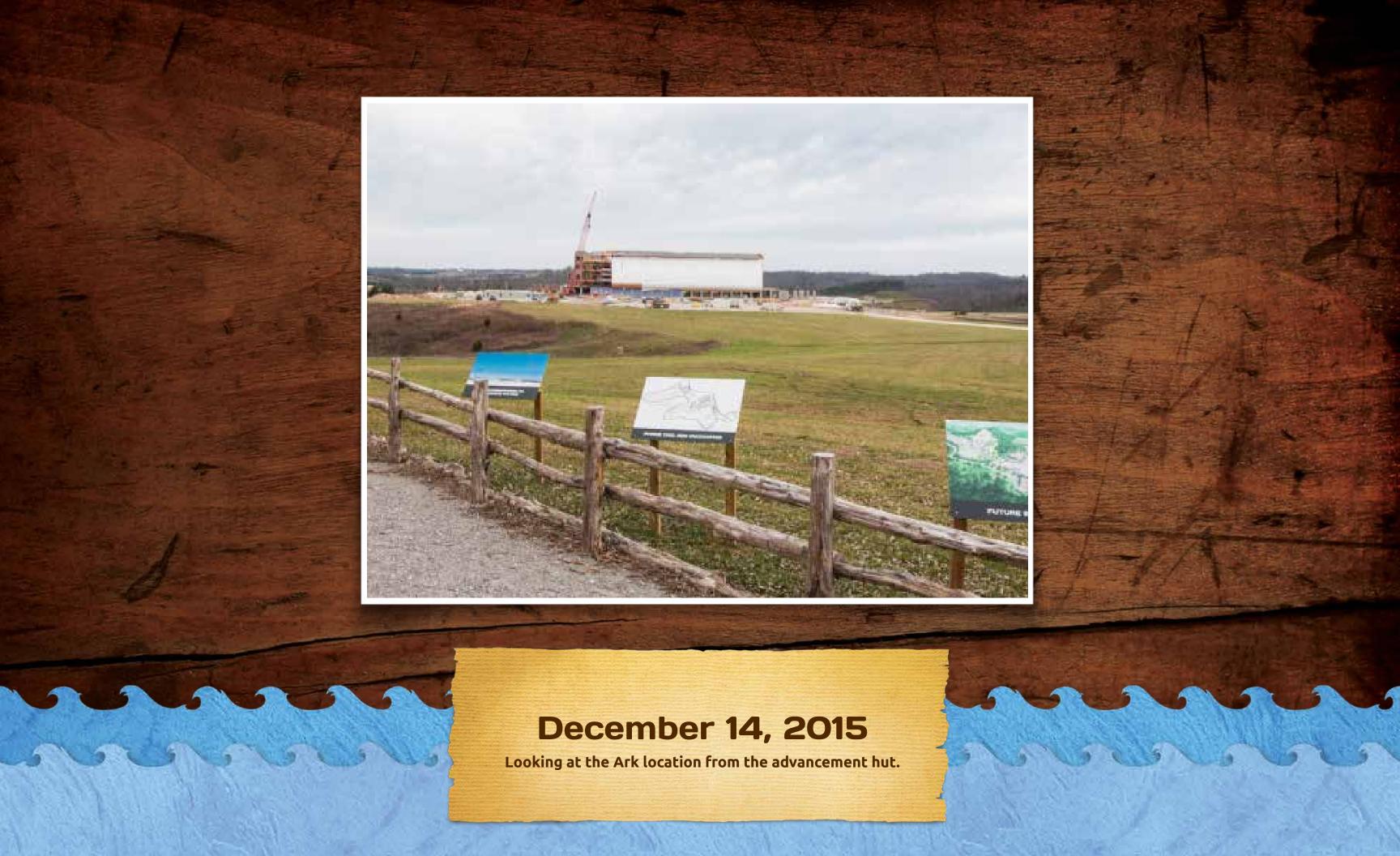


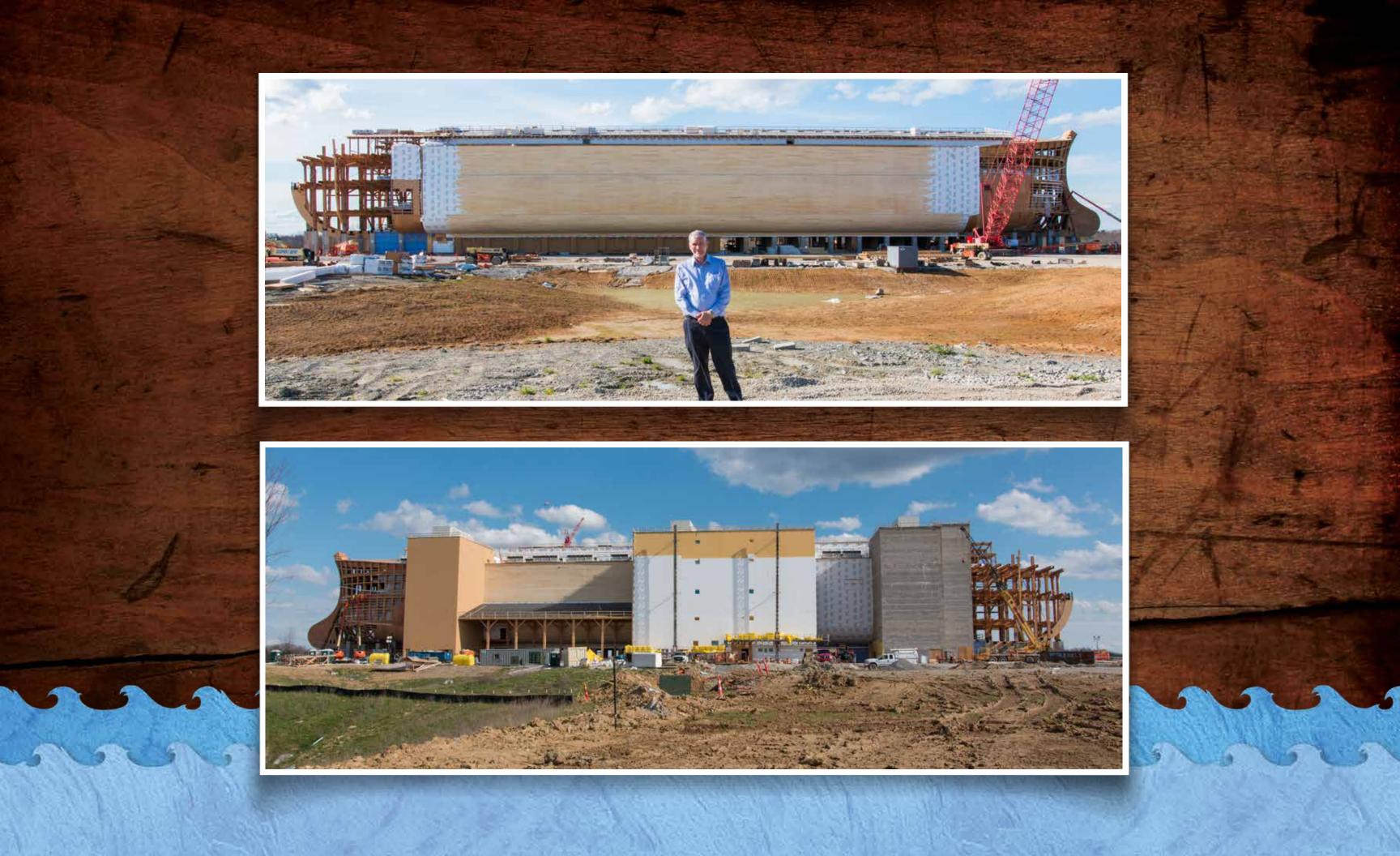


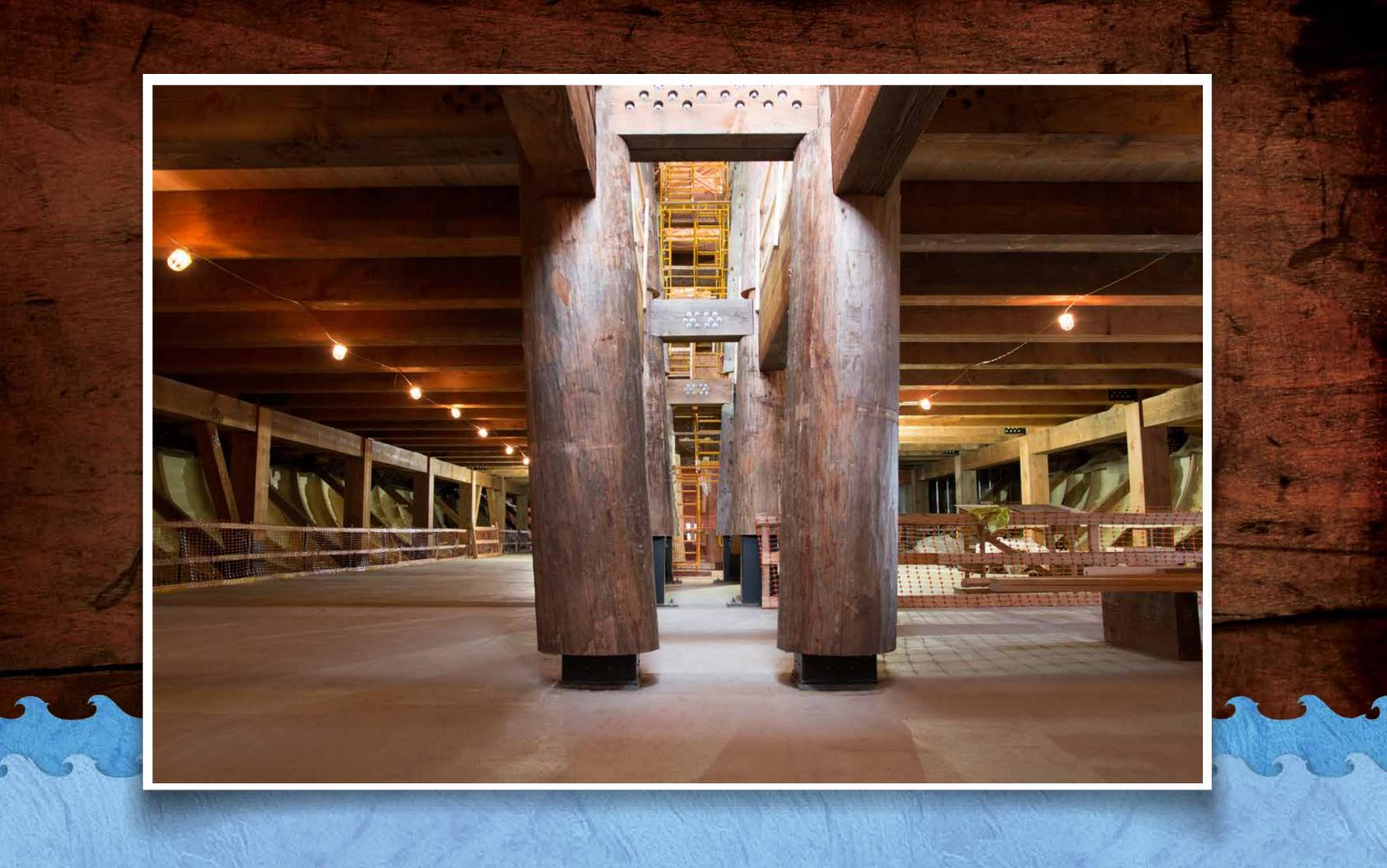


















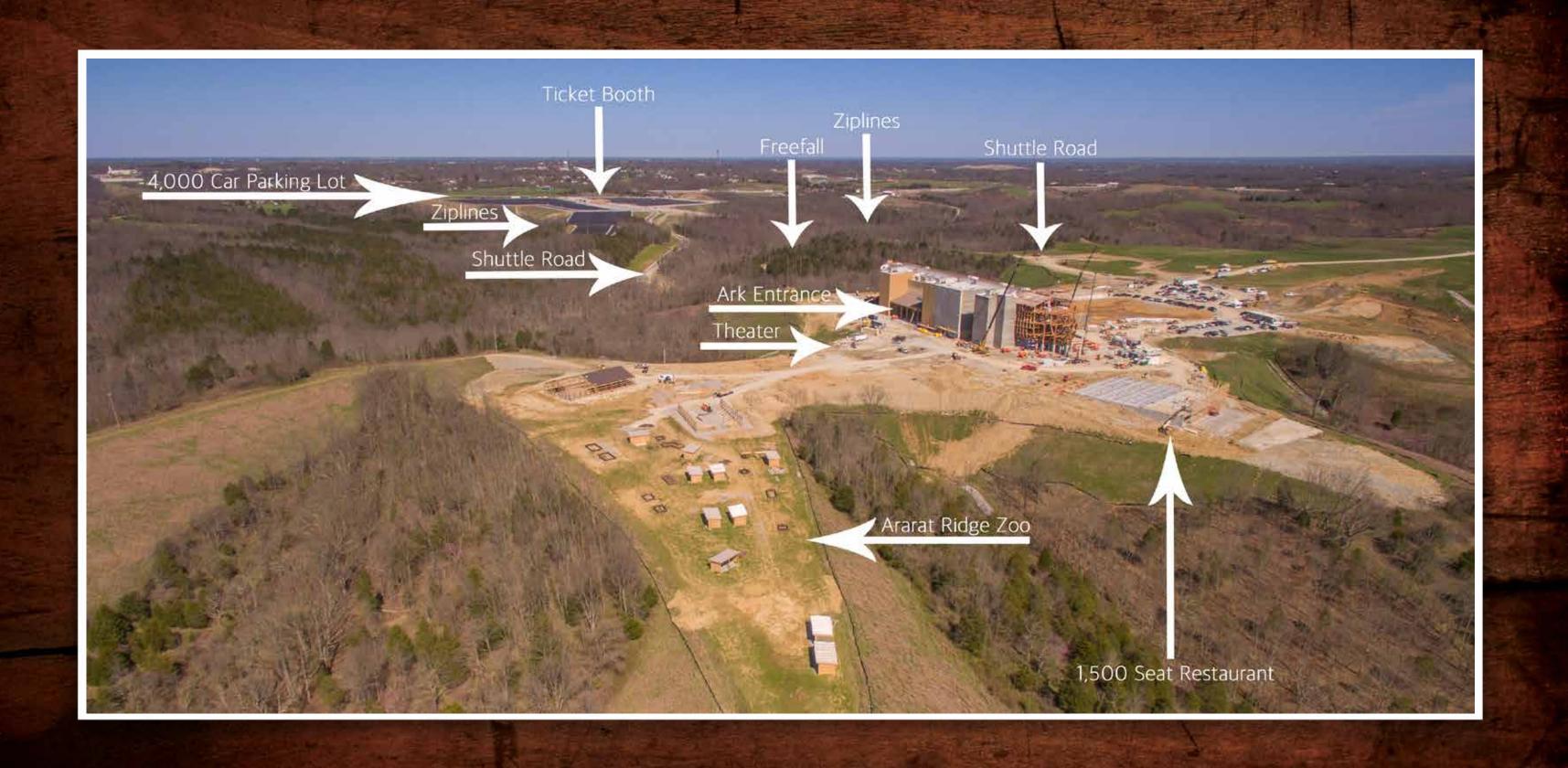






















Ark Bays

The Ark will contain 132 bays. Many of the bays are being constructed off site to be installed once the Ark structure is completed. Seventy-four bays will be exhibits, the others will contain space for dining, offices, housekeeping, mechanical, security, etc.



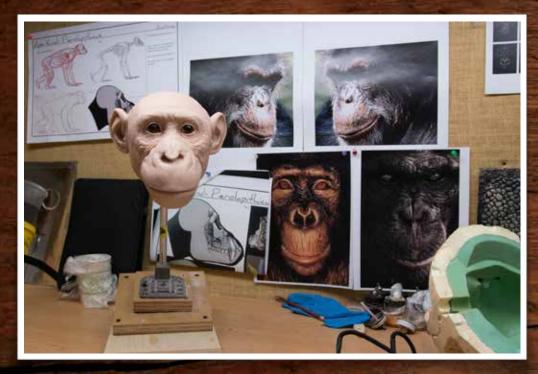








The Designer's Handiwork



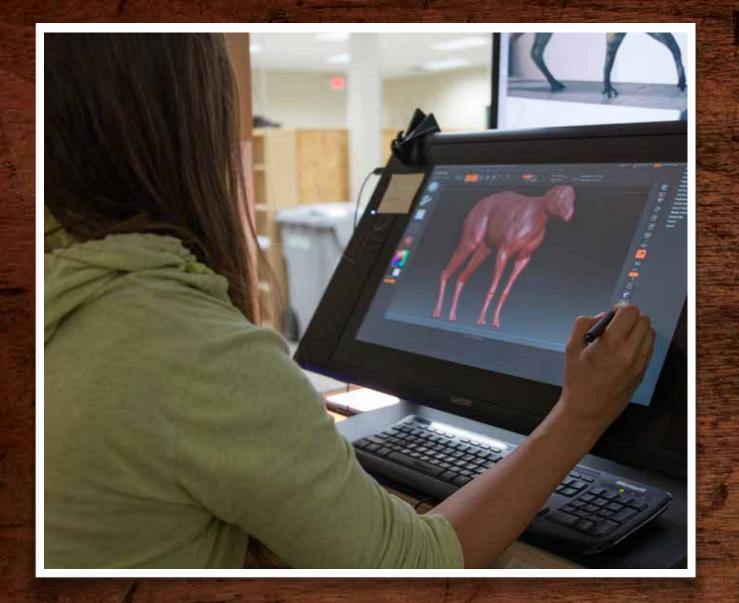


These small figurines are sculpted with our 3D printer, and then meticulously hand painted by one of our designers. The figures shown on this page will be used in the Babel diorama.











Sculpt It

Our artists start by sculpting animal kinds on the computer.

CNC Machine

Pieces of the animal are cut out on this machine.





Pieced Together

Then their pieces are assembled.

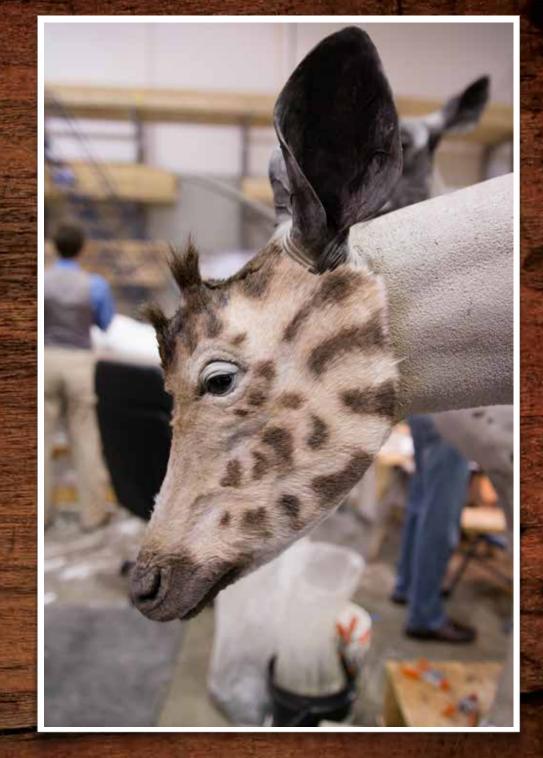


Fur Application

Fur is applied, cut, and airbrushed to get a realistic affect.







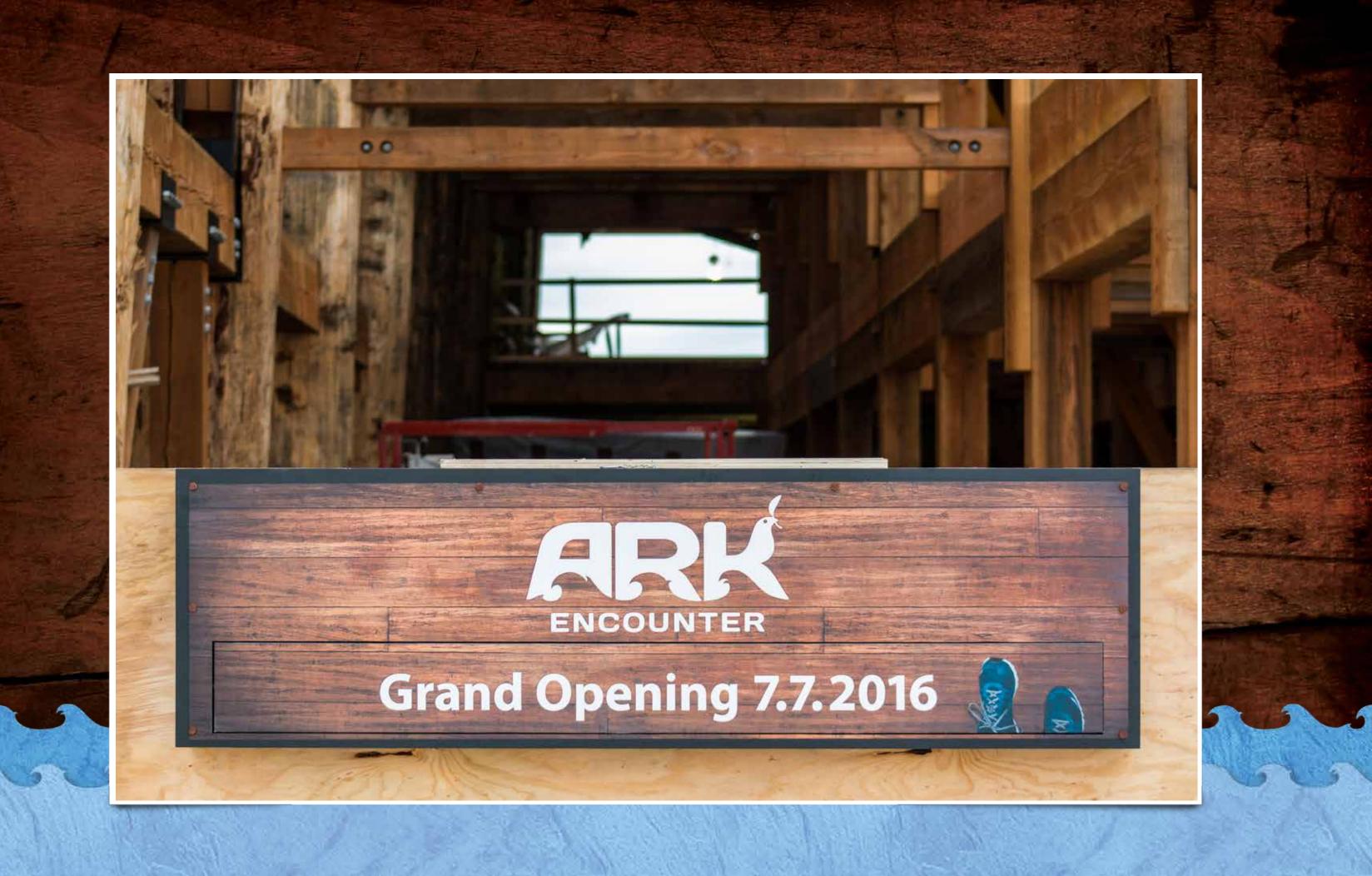
Making the Giraffe Kind

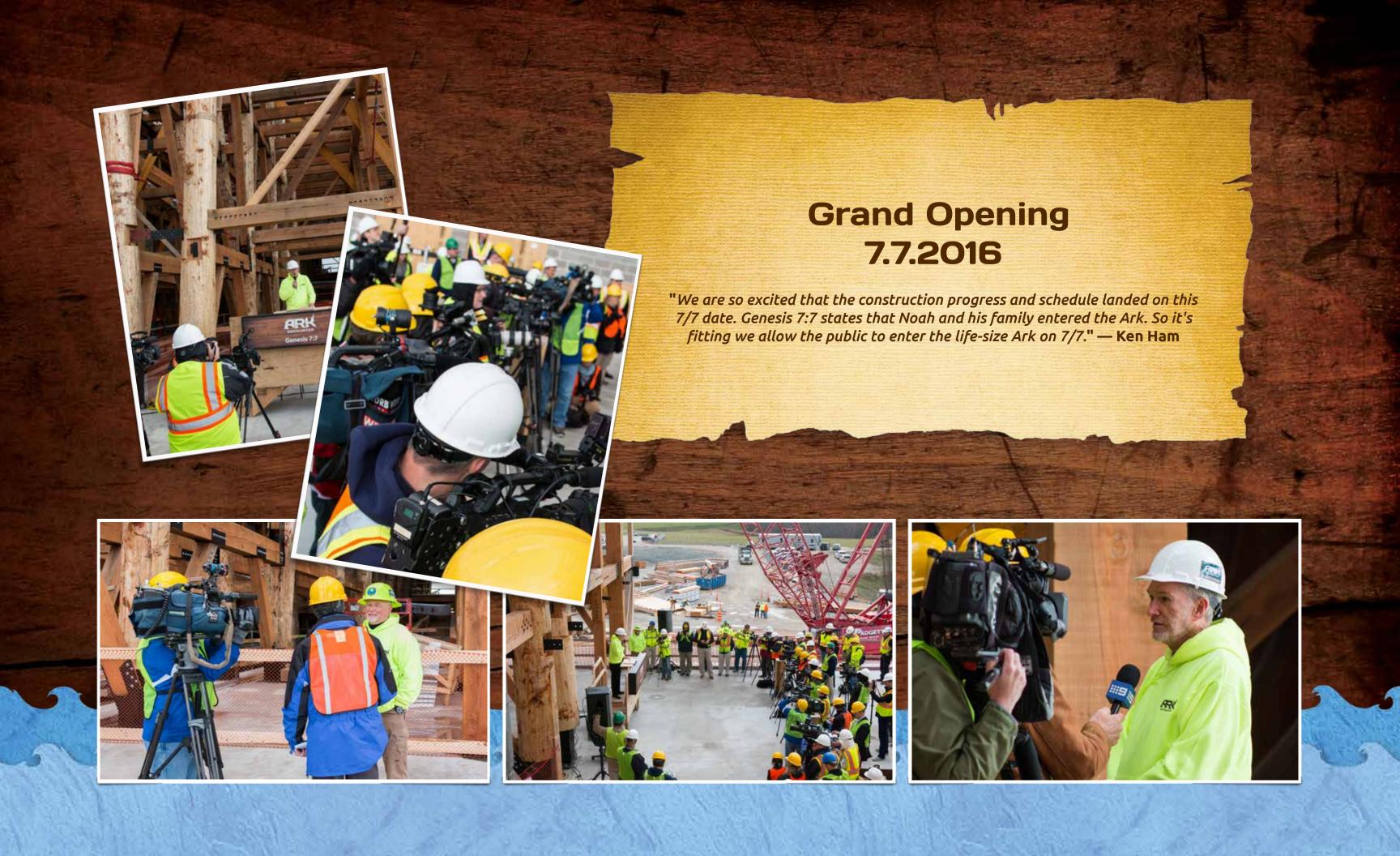






Making the Tyrannosaurus Kind













Dr. John Whitcomb

Dr. John Whitcomb coauthored The Genesis Flood with the late Dr. Henry Morris.

