

## INSTALLATION INSTRUCTIONS FOR GOLF GREENS

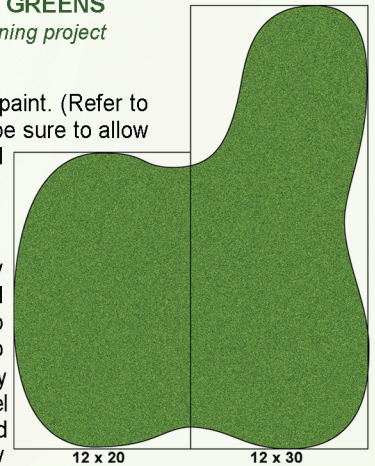
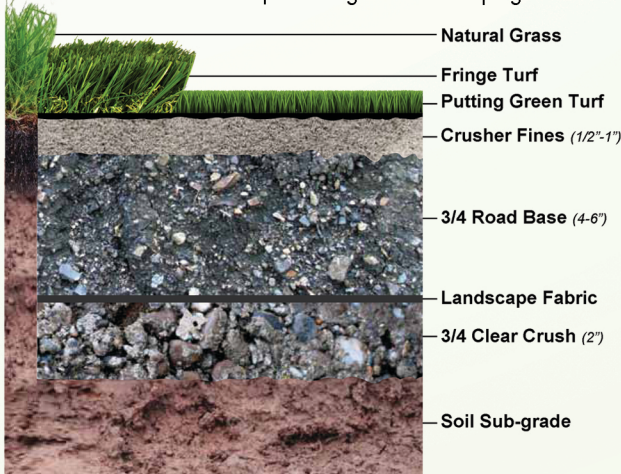
Carefully read all instructions before beginning project

### EXCAVATION

Begin by marking the area in the dimensions of your roll sizes where the Putting Green will be located with landscape paint. (Refer to Diagram 1) Then paint in the shape of the Putting Green following your design. If you are installing a perimeter fringe be sure to allow for that space. Now you can begin removing the sod/dirt to a depth of 6". Note: if the Putting Green is butting up to natural grass be sure to keep the edge sharp.

### BASE CONSTRUCTION

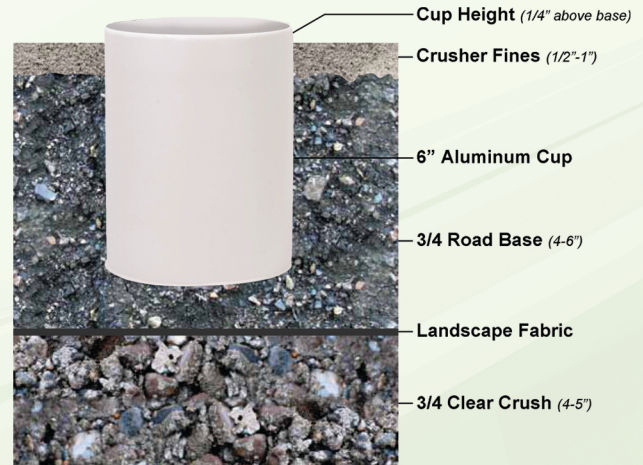
Place 2" of 3/4" clear crush over entire area. Rake evenly, water thoroughly and compact with plate tamper (compactor). Lay down landscape fabric over entire 3/4" clear crush area to prevent road base from settling in to it. Then place 4"-6" of 3/4" road base over project area, rake any desired undulations or elevation changes you may wish to see in your putting green. But keep in mind that water does not drain through the putting green surface, therefore there has to be an escape route for the water to run off. Also leave a 1/2" lip for the grass to butt up against on any hard scape such as patios and drive ways. Water thoroughly and compact. Then rake out any uneven areas or add gravel to any areas you wish to see higher. Now water and re-compact. Note: at this point, your base should be fairly smooth and firm. Then finish with 1/2"-1" crusher fines or rock dust, then water, compact, and use a roller to remove any lines or bumps. Be sure there are no low spots within the area of the Putting Green. It should now look extremely smooth.



### CUPS

Place cups in the locations you would like them to be. Using a post digger, dig a hole approximately 10"-12" deep. This hole should be a few inches bigger than the diameter of your cup. Fill the hole up with 4-5 inches of 3/4" clear crush. Use a small piece of 2x4 and a hammer to compact. Then lay landscape fabric down on top of clear crush and then 2"-3" of 3/4" road base, and then compact again. Now you can put your 6" aluminum cup on top of that. Now, using a 2x4 on top of your cup so you don't damage it, you can hammer the cup down to a height about 1/8"-1/4" above the putting green base. Keep in mind, if your cup is being installed on a slope, your cup has to be on that same angle. Now while holding the cup, you can fill back around it with road base. Do this in small amounts at a time. Use water and the butt end of a hammer

to compact. When you are close to your final height, finish off with crusher fines. Use a 2x4 and a hammer to compact around the edges of the cup. This area should be perfect.



### SURFACING

Lay artificial turf over project area. If there are multiple rolls always roll out in the same direction and overlap each role by 2-3 inches. Once your rolls are all in place, using sidewalk chalk draw the shape of your putting green on the turf. Once happy with shape, proceed to cut out using an exacto knife.

### SEAMING

Cut off factory edge two tufts in on bottom piece of turf. The top piece of turf that is overlapping, will need to be trimmed using an exacto knife. Take your time as this cut has to be as close as possible without overlapping. The backing of each piece should be just touching or have a small gap. You are always better off with a small gap rather than having the turf seam too tight, as this will cause a wrinkle.

Lay seam tape half under one piece and half under the other. Fold turf away from seam and pour glue onto tape. Spread glue evenly with a 1/8" notched trowel. Let glue sit for 3 minutes. When laying pieces back down, bring them together at the same time. Be careful not to get any glue on the fibers. Now weigh seam down using sandbags.

### SAND-FILLING

Empty 50/100 silica sand bags into a wheel barrow. With a flat headed shovel spread the sand around as evenly as possible. One shovel head should do 2-3 linear feet. Use a stiff bristle push broom to brush the sand back and forth to drop the sand into the fibers. Do another lighter "touch up layer" to thicken the sand in-fill and even out any low spots. You should apply about 2 lbs per sq ft.

### FRINGE

If you are installing a perimeter fringe, for example, 2 feet of fringe, I like to cut strips 31" by 7.5 feet. Then place the strips around the putting green overlapping the putting green by a couple inches, as well as the next piece of fringe beside it. Keep the fibres of the fringe facing the putting green. Cut the fringe out following the edge of the putting green using an exacto knife. Then hammer every 2" a 4" galvanized spiral spikes into the cut fringe edge. You do not have to glue the fringe to the putting green. The 31 inches should be enough to allow for the curves on the putting green. Now you can cut each piece of fringe to one another, and seam each piece of fringe using the same method with the glue and seam tape. Except on these seams, you will have to spike down using the 4" galvanized nails every two inches on both sides after gluing. Be sure not to bury any fibers or create any indentations in the base. The next step will be cutting the outside shape of the fringe. If you would like it to mirror the putting green shape get someone to run a tape measure along the edge of the green at your desired length as you cut. Now the fringe is ready to be sand-filled using 16/30 silica sand, same method as above.

### FINISHING TOUCHES

Cut an "X" in the turf in the middle of each cup. Then carefully follow the top edge of the cup using an exacto knife. Then using a shop-vac, remove debris from the centre of each cup to allow for your pins. Clean up and begin to putt!