



Album of Ground Grid mounting schemes
VODALAND



URBAN

Name	Article	Ground Grid height, in	Rope Ø, in	U-bolt DIN 741
8.66"x8.66" Ground Grid plastic H4"	8710	4	3/16	3/16"
8.66"x8.66" Ground Grid plastic H6"	8730	6	1/4	1/4"
8.66"x8.66" Ground Grid plastic H8"	8720	8	5/16	5/16"
8.66"x8.66" Ground Grid plastic H12"	8760	12	7/16	7/16"

Attention! Ground Grids with a height of less than 4" are not allowed for installation on slopes

The sequence of tying the rope in a knot for the anchor

Step 1: make 2 consecutive rope loops

Step 2: turn loop 2 by 90°

Step 3: pull loop 1 through loop 2

Step 4: insert the J-hook into loop 1

Step 5: tighten the knot and drive the hook into the ground

Ground Grid mounting scheme:

- Preparation of the work site.** Clean and prepare the surface on which the Ground Grid will be laid. Remove any obstructions such as rocks, roots or plant debris. Make sure the surface is level and well compacted.
- Ground Grid deployment.** Unpack the modules from transport packaging. Deploy the Ground Grid onto the prepared surface along the desired direction, folded side up. If necessary, connect the ends of the Ground Grid modules using special connecting elements.
- Fixing the Ground Grid.** Fix the Ground Grid to the surface. To do this, use predetermined fastening methods, such as installing ground anchors, J-Hooks or using another fastening pins. Place the fasteners at the required distance from each other. Usually, this distance depends on the type of Ground Grid and operating conditions. Pull the rope through the holes in Ground Grid. Fix the ropes with ground anchors at the beginning of laying the Ground Grid. Fix the first row of cells with a U-bolt. Then fix every 3-5 cells (depending on the angle of the slope) with a J-hook, fix each subsequent cell with a U-bolt, as shown in the mounting scheme. If a multi-layer system is used, connect the top layer of geotextile to the Ground Grid. This will provide additional stability and protection of the system. **The necessity, quantity, and geometric parameters of fastening elements depend on the geological and climatic conditions of the construction site and are calculated by the construction site designer.**
- Fixing the ground.** Fill the cells with ground, crushed stones or other material according to the customer needs.

Ground Grid mounting scheme
at a terrain slope of ≤60°

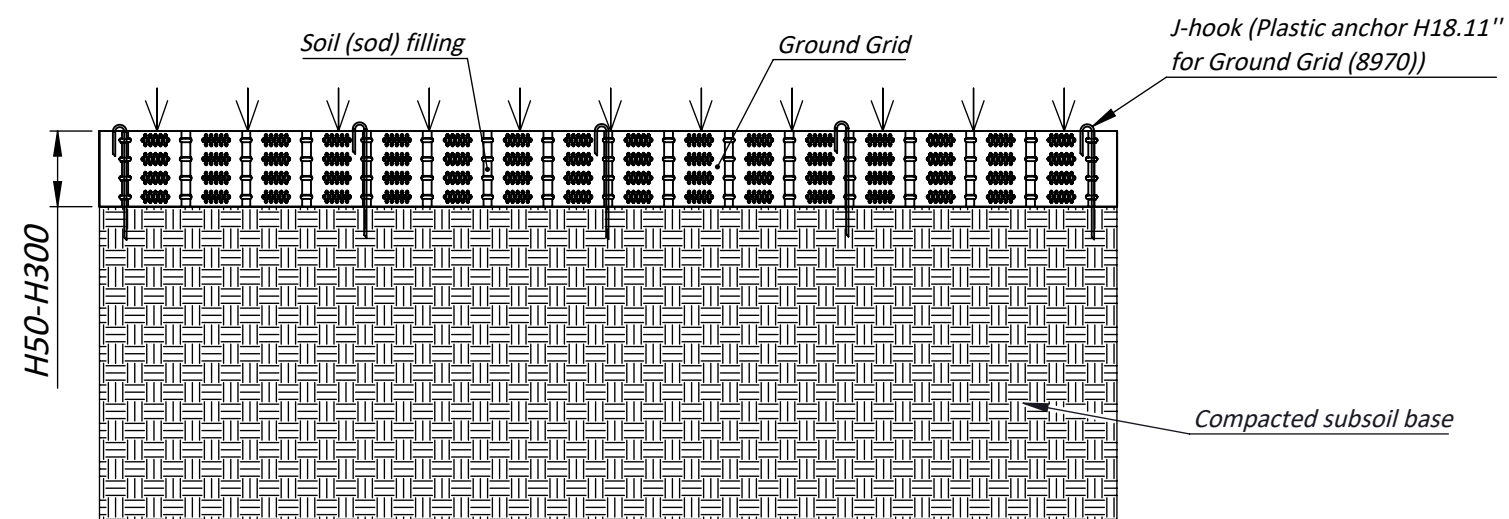
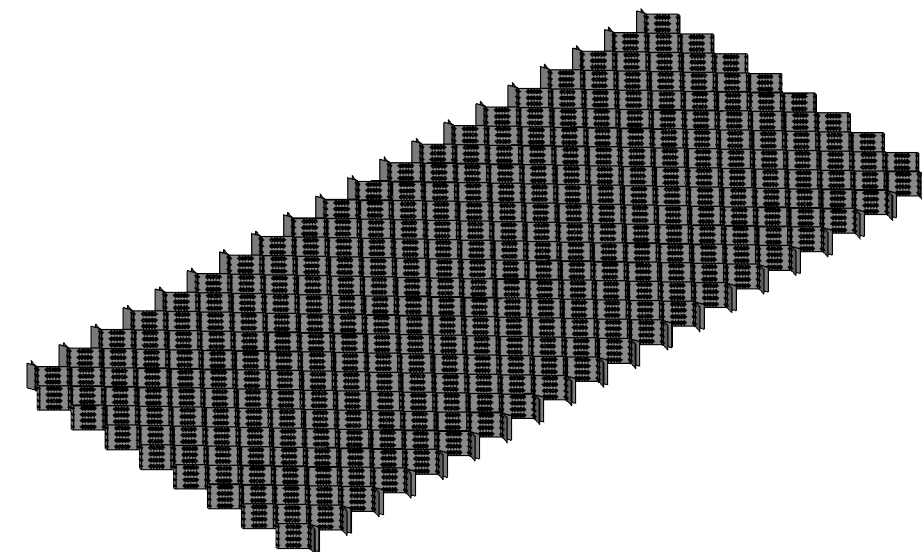
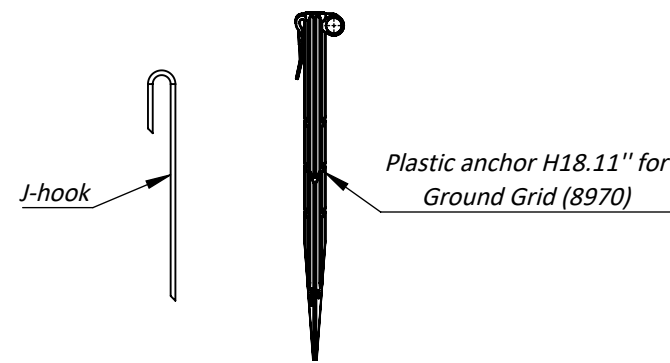
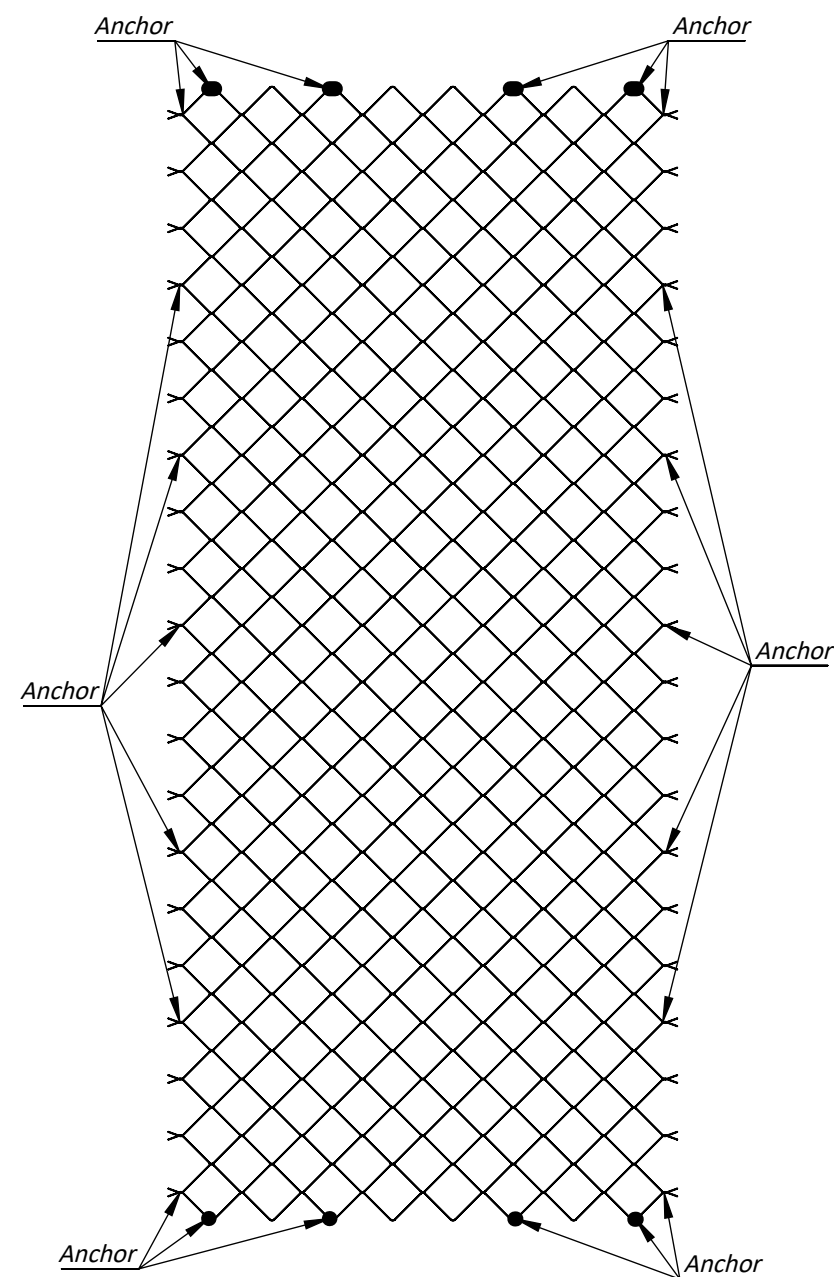
WEIGHT: lbs

SCALE:1:20

SHEET 2 OF 7



A3



Ground Grid mounting scheme:

- 1. Preparation of the work site.** Clean and prepare the surface on which the Ground Grid will be laid. Remove any obstructions such as stones, roots or plant debris. Make sure the surface is leveled and well compacted. Lay geotextile (if necessary).
- 2. Deploy the Ground Grid.** Unpack the modules from the transport package. Stretch the Ground Grid on the prepared surface in the desired direction, if necessary, connect the ends of the Ground Grid modules using connecting elements.
- 3. Fixing the Ground Grid.** Fix the Ground Grid on the surface with Plastic anchor H18.11" for Ground Grid (8970) or J-hooks in each corner and along the perimeter of the Ground Grid (every 3-4 cells), as shown in the scheme (in case of installation of the Ground Grid on soft soils, increase the number of anchors to ensure reliable fixation). If a multilayer system is used, connect the top layer of geotextile to the Ground Grid. This will provide additional stability and protection of the system. **The necessity, quantity, and geometric parameters of fastening elements depend on the geological and climatic conditions of the construction site and are calculated by the construction site designer.**
- 4. Fixing the soil.** Fill the cells with soil (sod) or other material, plant plants according to the customer's needs.

Ground Grid mounting scheme on
flat surfaces (no loads -
landscape design, decoration)

WEIGHT: lbs

SCALE: 1:20

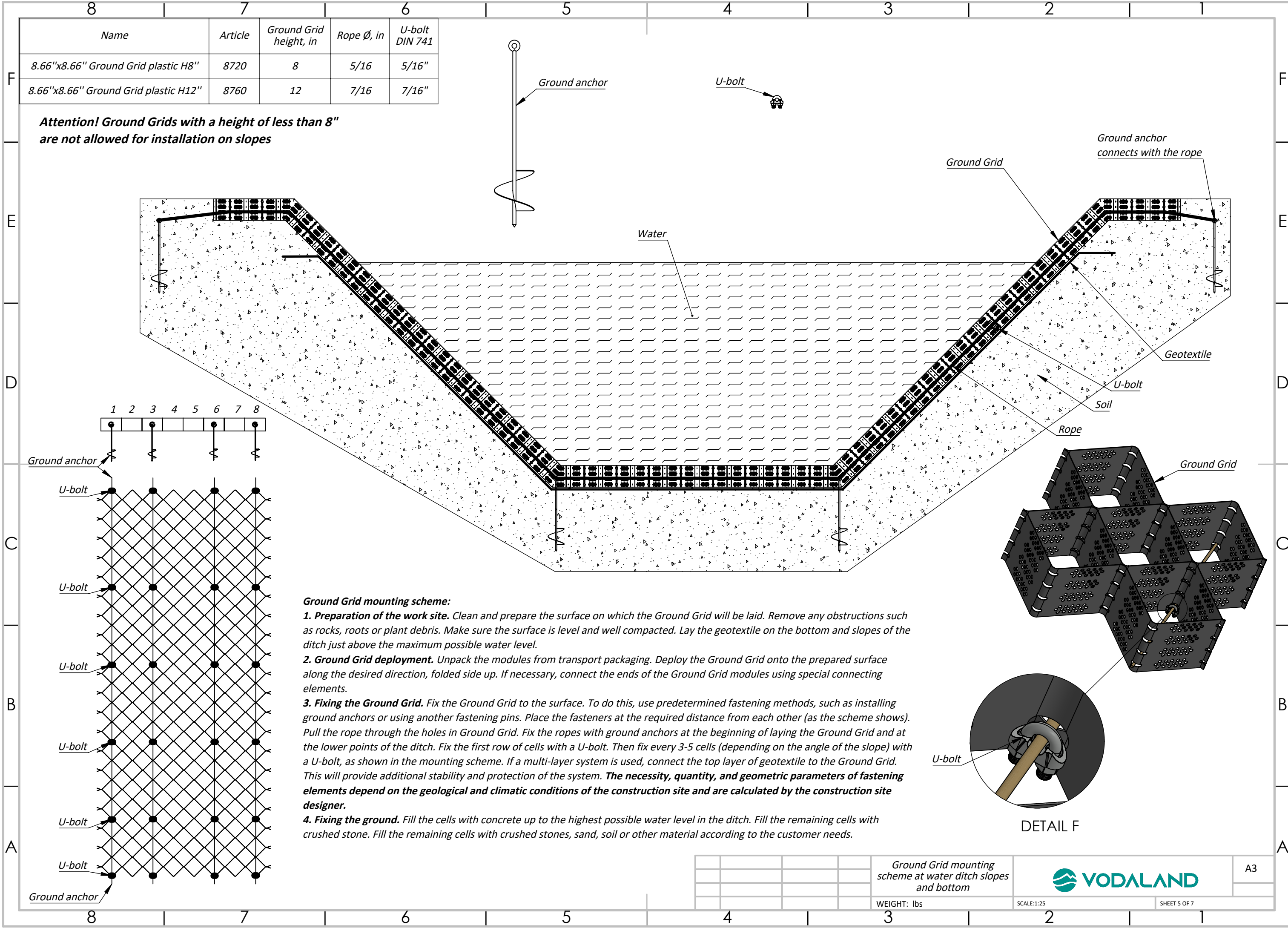
SHEET 4 OF 7



A3

Name	Article	Ground Grid height, in	Rope Ø, in	U-bolt DIN 741
8.66"x8.66" Ground Grid plastic H8"	8720	8	5/16	5/16"
8.66"x8.66" Ground Grid plastic H12"	8760	12	7/16	7/16"

Attention! Ground Grids with a height of less than 8" are not allowed for installation on slopes



Ground Grid mounting scheme:

- 1. Preparation of the work site.** Clean and prepare the surface on which the Ground Grid will be laid. Remove any obstructions such as rocks, roots or plant debris. Make sure the surface is level and well compacted. Lay the geotextile on the bottom and slopes of the ditch just above the maximum possible water level.
- 2. Ground Grid deployment.** Unpack the modules from transport packaging. Deploy the Ground Grid onto the prepared surface along the desired direction, folded side up. If necessary, connect the ends of the Ground Grid modules using special connecting elements.
- 3. Fixing the Ground Grid.** Fix the Ground Grid to the surface. To do this, use predetermined fastening methods, such as installing ground anchors or using another fastening pins. Place the fasteners at the required distance from each other (as the scheme shows). Pull the rope through the holes in Ground Grid. Fix the ropes with ground anchors at the beginning of laying the Ground Grid and at the lower points of the ditch. Fix the first row of cells with a U-bolt. Then fix every 3-5 cells (depending on the angle of the slope) with a U-bolt, as shown in the mounting scheme. If a multi-layer system is used, connect the top layer of geotextile to the Ground Grid. This will provide additional stability and protection of the system. **The necessity, quantity, and geometric parameters of fastening elements depend on the geological and climatic conditions of the construction site and are calculated by the construction site designer.**
- 4. Fixing the ground.** Fill the cells with concrete up to the highest possible water level in the ditch. Fill the remaining cells with crushed stone. Fill the remaining cells with crushed stones, sand, soil or other material according to the customer needs.

Ground Grid mounting
scheme at water ditch slopes
and bottom

WEIGHT: lbs

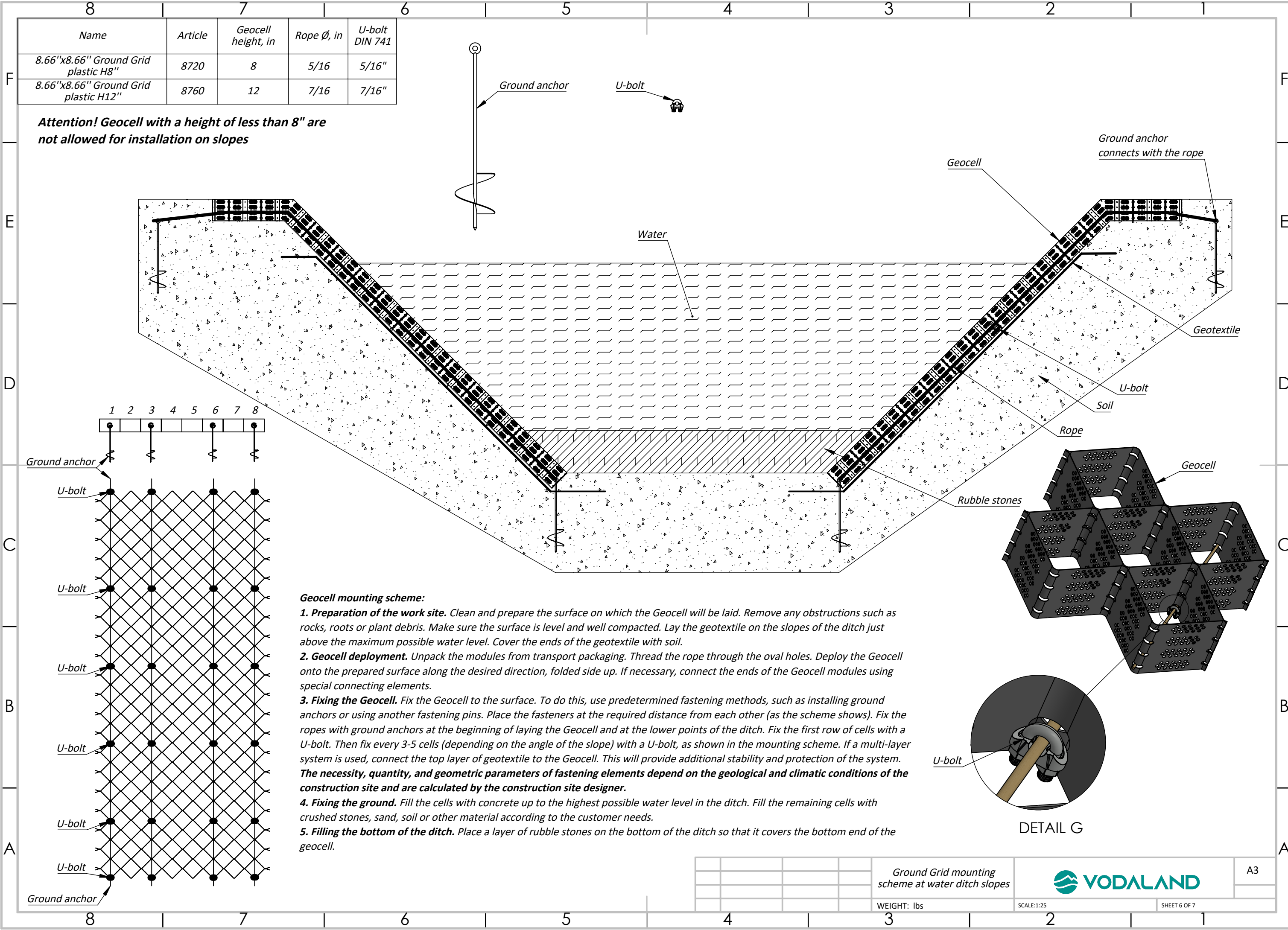


SCALE:1:25

SHEET 5 OF 7

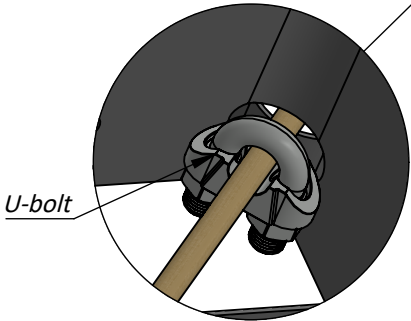
Name	Article	Geocell height, in	Rope Ø, in	U-bolt DIN 741
8.66"x8.66" Ground Grid plastic H8"	8720	8	5/16	5/16"
8.66"x8.66" Ground Grid plastic H12"	8760	12	7/16	7/16"

Attention! Geocell with a height of less than 8" are not allowed for installation on slopes

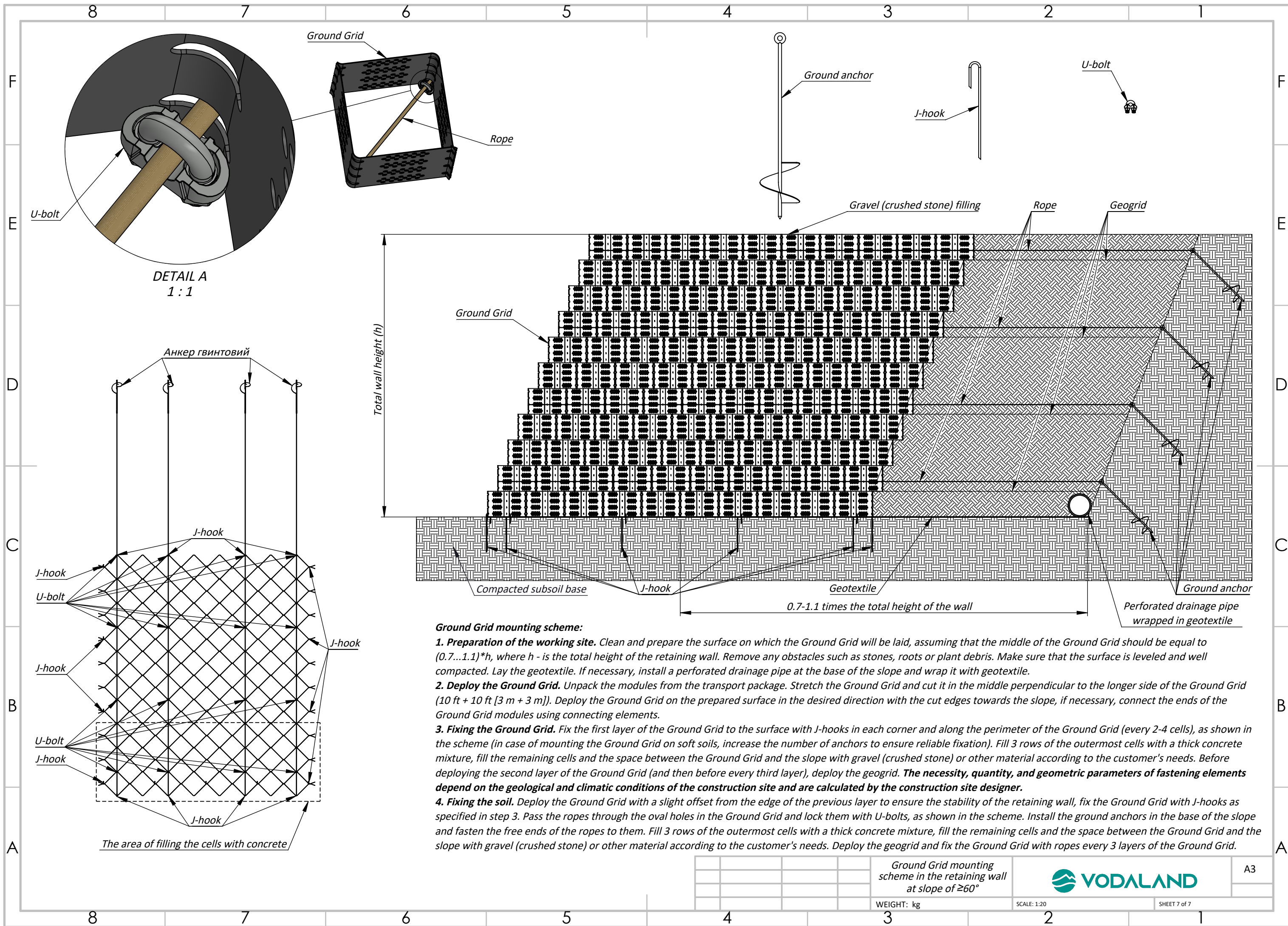


Geocell mounting scheme:

- 1. Preparation of the work site.** Clean and prepare the surface on which the Geocell will be laid. Remove any obstructions such as rocks, roots or plant debris. Make sure the surface is level and well compacted. Lay the geotextile on the slopes of the ditch just above the maximum possible water level. Cover the ends of the geotextile with soil.
- 2. Geocell deployment.** Unpack the modules from transport packaging. Thread the rope through the oval holes. Deploy the Geocell onto the prepared surface along the desired direction, folded side up. If necessary, connect the ends of the Geocell modules using special connecting elements.
- 3. Fixing the Geocell.** Fix the Geocell to the surface. To do this, use predetermined fastening methods, such as installing ground anchors or using another fastening pins. Place the fasteners at the required distance from each other (as the scheme shows). Fix the ropes with ground anchors at the beginning of laying the Geocell and at the lower points of the ditch. Fix the first row of cells with a U-bolt. Then fix every 3-5 cells (depending on the angle of the slope) with a U-bolt, as shown in the mounting scheme. If a multi-layer system is used, connect the top layer of geotextile to the Geocell. This will provide additional stability and protection of the system. **The necessity, quantity, and geometric parameters of fastening elements depend on the geological and climatic conditions of the construction site and are calculated by the construction site designer.**
- 4. Fixing the ground.** Fill the cells with concrete up to the highest possible water level in the ditch. Fill the remaining cells with crushed stones, sand, soil or other material according to the customer needs.
- 5. Filling the bottom of the ditch.** Place a layer of rubble stones on the bottom of the ditch so that it covers the bottom end of the geocell.



DETAIL G



Ground Grid mounting scheme:

- 1. Preparation of the working site.** Clean and prepare the surface on which the Ground Grid will be laid, assuming that the middle of the Ground Grid should be equal to $(0.7...1.1) \cdot h$, where h - is the total height of the retaining wall. Remove any obstacles such as stones, roots or plant debris. Make sure that the surface is leveled and well compacted. Lay the geotextile. If necessary, install a perforated drainage pipe at the base of the slope and wrap it with geotextile.
- 2. Deploy the Ground Grid.** Unpack the modules from the transport package. Stretch the Ground Grid and cut it in the middle perpendicular to the longer side of the Ground Grid (10 ft + 10 ft [3 m + 3 m]). Deploy the Ground Grid on the prepared surface in the desired direction with the cut edges towards the slope, if necessary, connect the ends of the Ground Grid modules using connecting elements.
- 3. Fixing the Ground Grid.** Fix the first layer of the Ground Grid to the surface with J-hooks in each corner and along the perimeter of the Ground Grid (every 2-4 cells), as shown in the scheme (in case of mounting the Ground Grid on soft soils, increase the number of anchors to ensure reliable fixation). Fill 3 rows of the outermost cells with a thick concrete mixture, fill the remaining cells and the space between the Ground Grid and the slope with gravel (crushed stone) or other material according to the customer's needs. Before deploying the second layer of the Ground Grid (and then before every third layer), deploy the geogrid. **The necessity, quantity, and geometric parameters of fastening elements depend on the geological and climatic conditions of the construction site and are calculated by the construction site designer.**
- 4. Fixing the soil.** Deploy the Ground Grid with a slight offset from the edge of the previous layer to ensure the stability of the retaining wall, fix the Ground Grid with J-hooks as specified in step 3. Pass the ropes through the oval holes in the Ground Grid and lock them with U-bolts, as shown in the scheme. Install the ground anchors in the base of the slope and fasten the free ends of the ropes to them. Fill 3 rows of the outermost cells with a thick concrete mixture, fill the remaining cells and the space between the Ground Grid and the slope with gravel (crushed stone) or other material according to the customer's needs. Deploy the geogrid and fix the Ground Grid with ropes every 3 layers of the Ground Grid.

Ground Grid mounting
scheme in the retaining wall
at slope of $\geq 60^\circ$

WEIGHT: kg

SCALE: 1:20

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