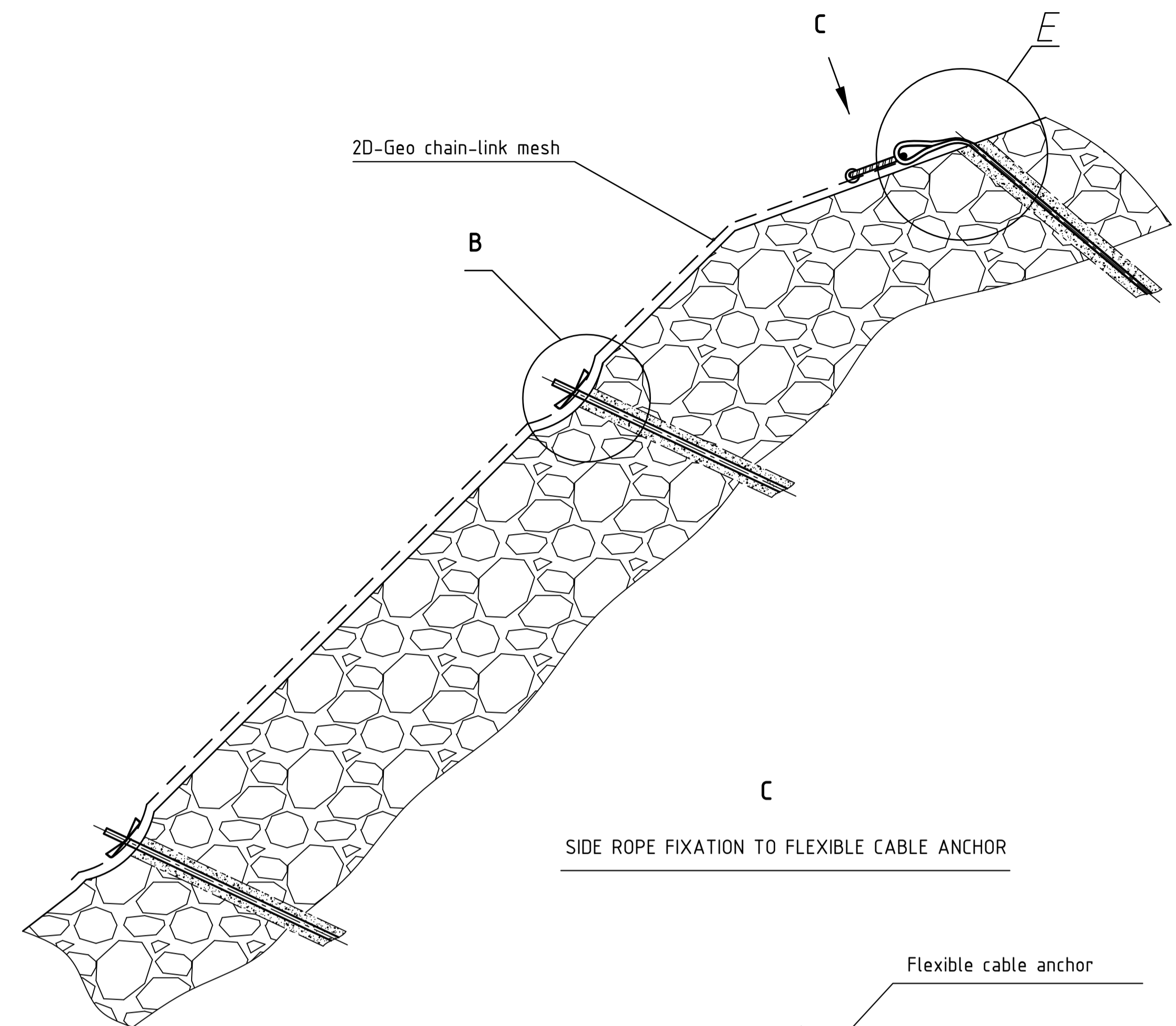
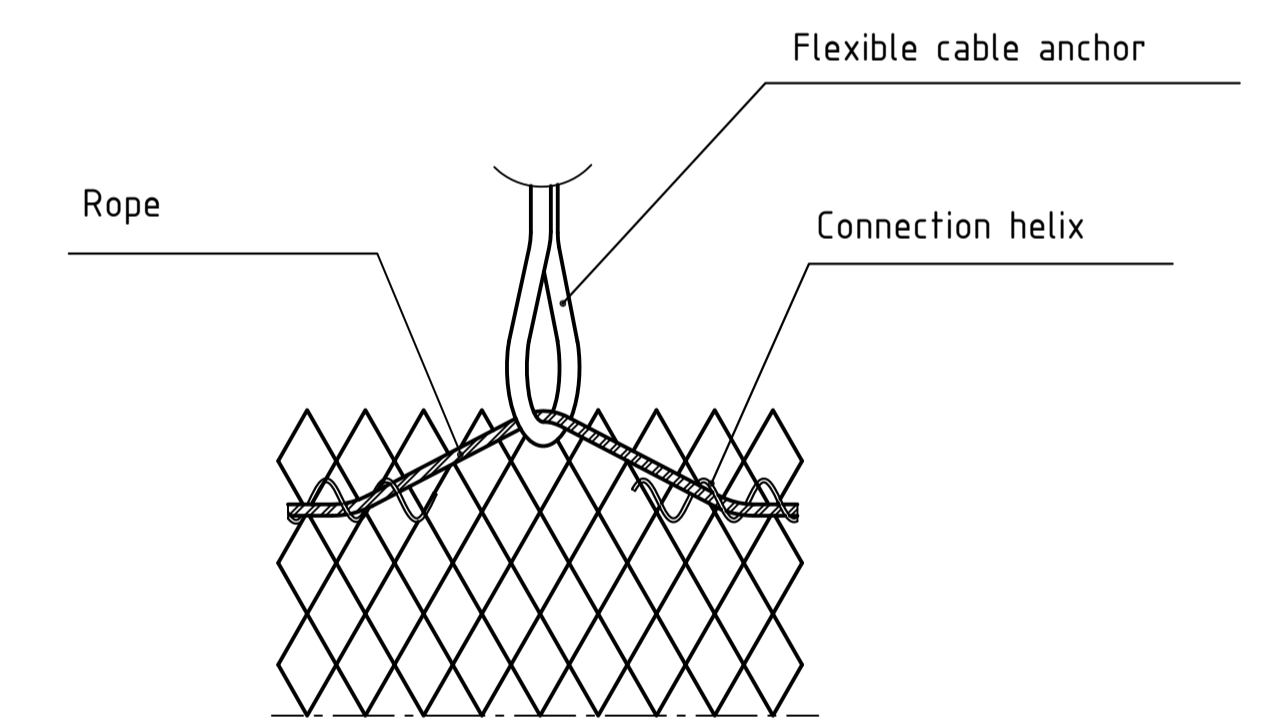


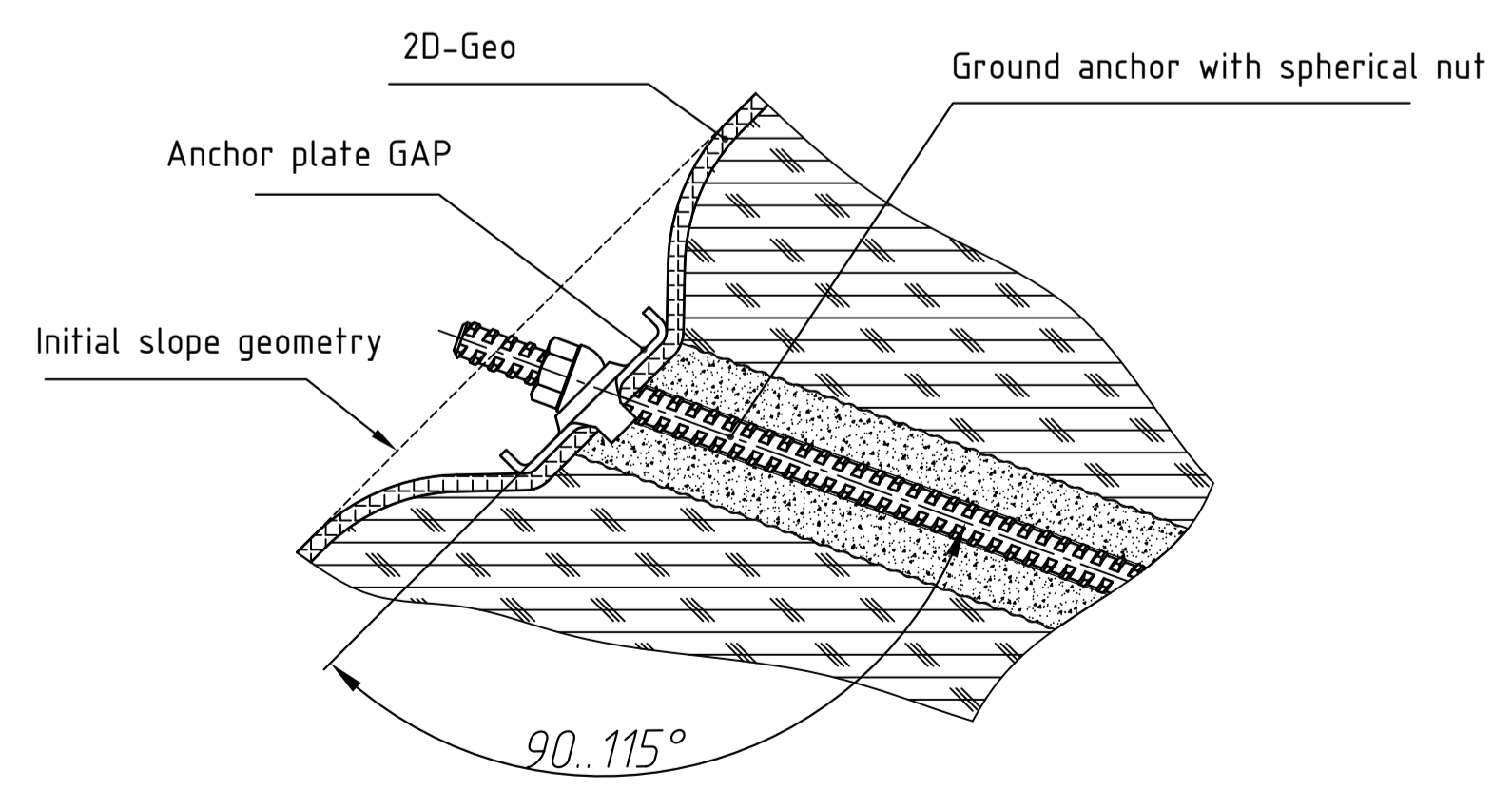
A-A  
PROTECTED SLOPE CROSS-SECTION



C  
SIDE ROPE FIXATION TO FLEXIBLE CABLE ANCHOR

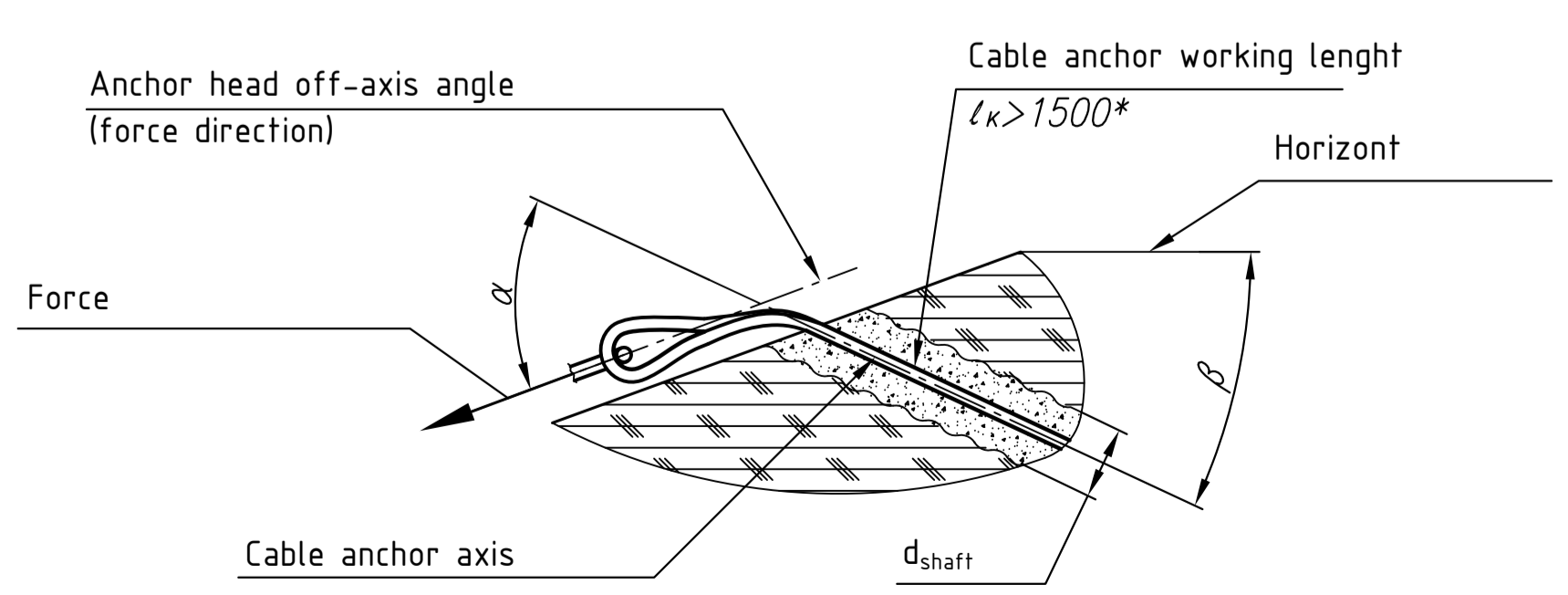


B  
FIXATION OF MESH ON ANCHOR FIELD (SLOPE WITH INSTALLED NAILS)



Spherical nut clamping torque 15-30 kN.  
Angle between anchor plate palne and ground anchor not more than 115 degrees.

E  
FLEXIBLE CABLE ANCHOR USE LIMITATION



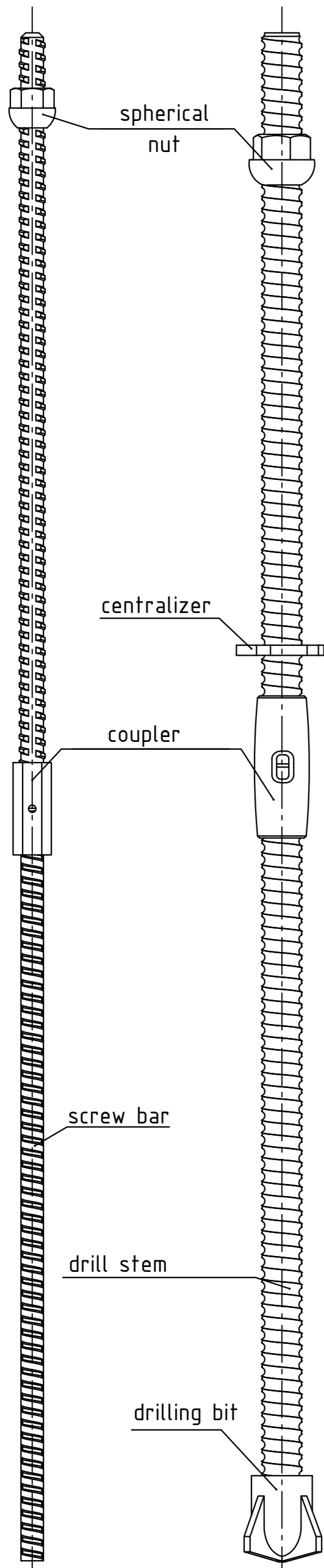
Exact working anchor length must be obtained during field pull-out tests.  
 $\alpha < 45^\circ$   
 $\beta > 15^\circ$

- 1,5 m  $\leq$  spacing interval A  $\leq$  4,0 m; 1,5 m  $\leq$  spacing interval B  $\leq$  4,0 m.
- 0,5  $\leq$  X  $\leq$  1, 5 m, Y=0,5 m.
- If B  $\geq$  3 m, than C=B and  $\Delta=B$ ; If B < 3 m, than C=2\*B and  $\Delta=1,5*B$ .
- Anchor (nail) length depends from position of potential failure surface.
- Side ropes installed around each part of protected slope.
- Length of each one-piece side rope section between cable anchors must be less than 20 m.
- Side rope should be prestrained with force 25 kN.
- To connect chain-link mesh sheets between each other and to side ropes with using connection helices
- Tensile strength of helix wire 1100 N/mm<sup>2</sup>.

Landslide protection system 2D-Geo			
	Page	Pages	
	1	2	
Technical drawing			LLC Geo-barrier

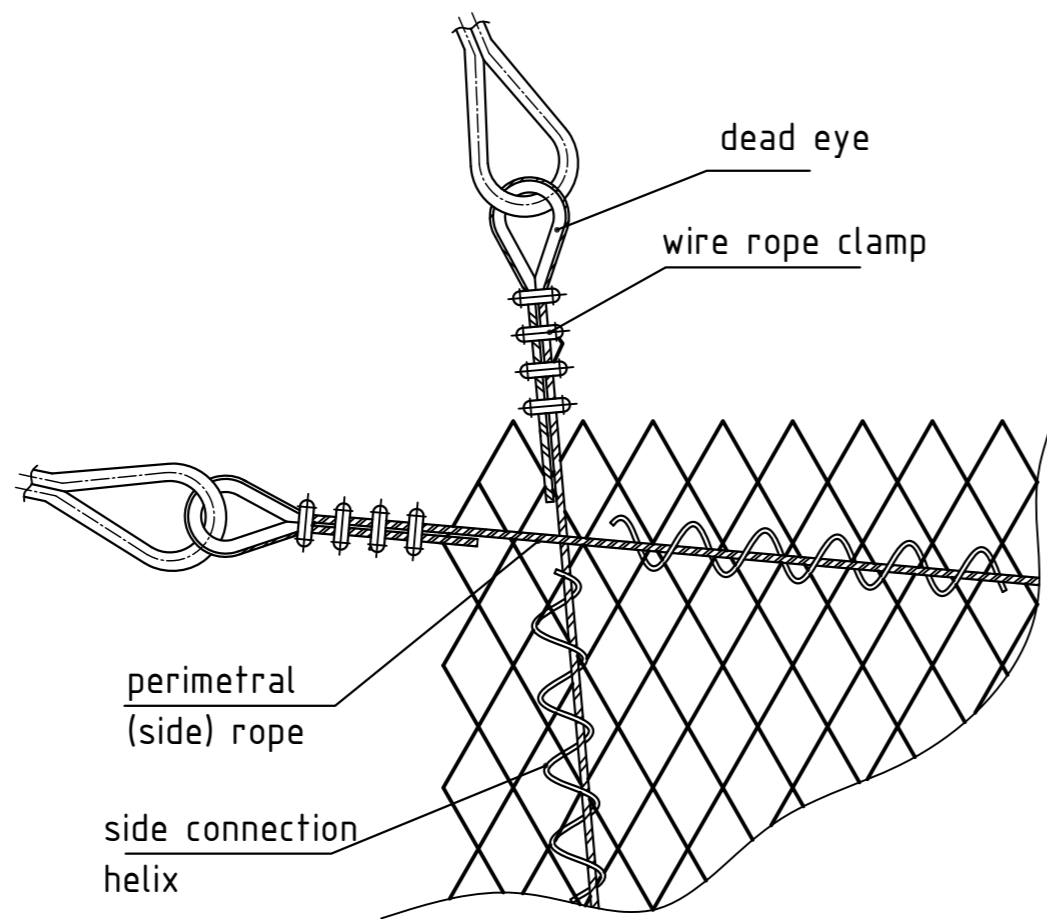
GROUND ANCHORS:

at left - bar anchor with solid cross-section;  
at right - hollow bar ground anchor grout feed hole.

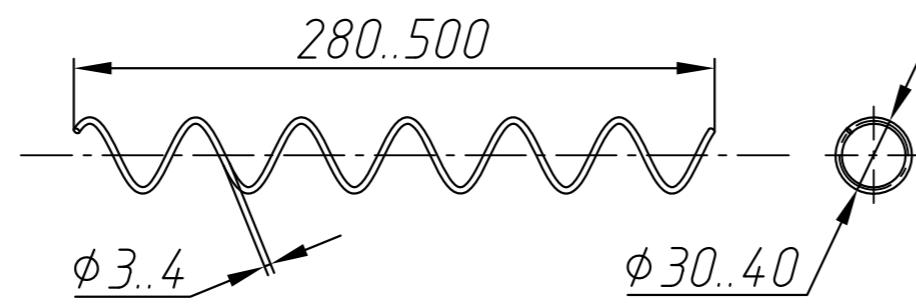


D

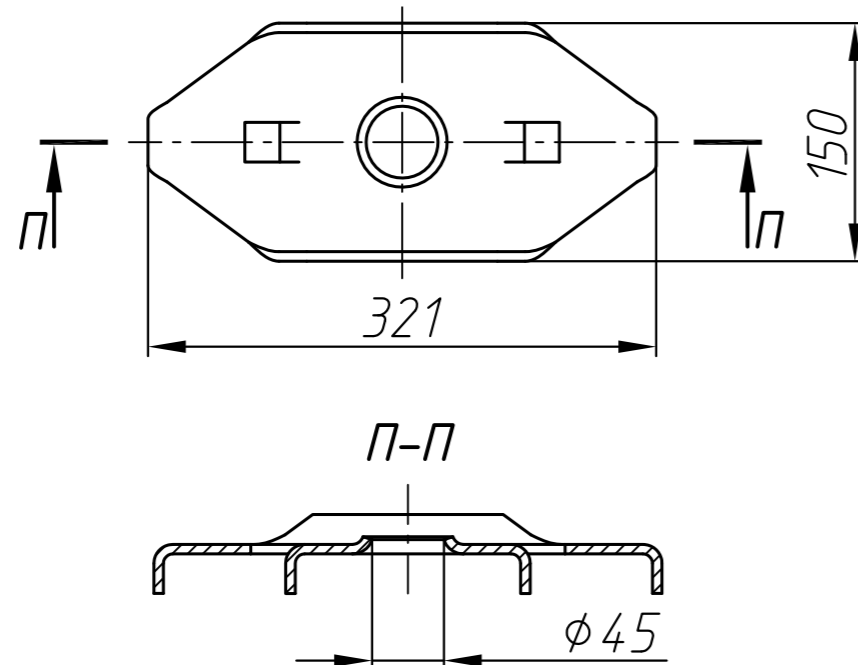
Fixation of perimetral rope end to flexible cable anchor



STEEL HELIX

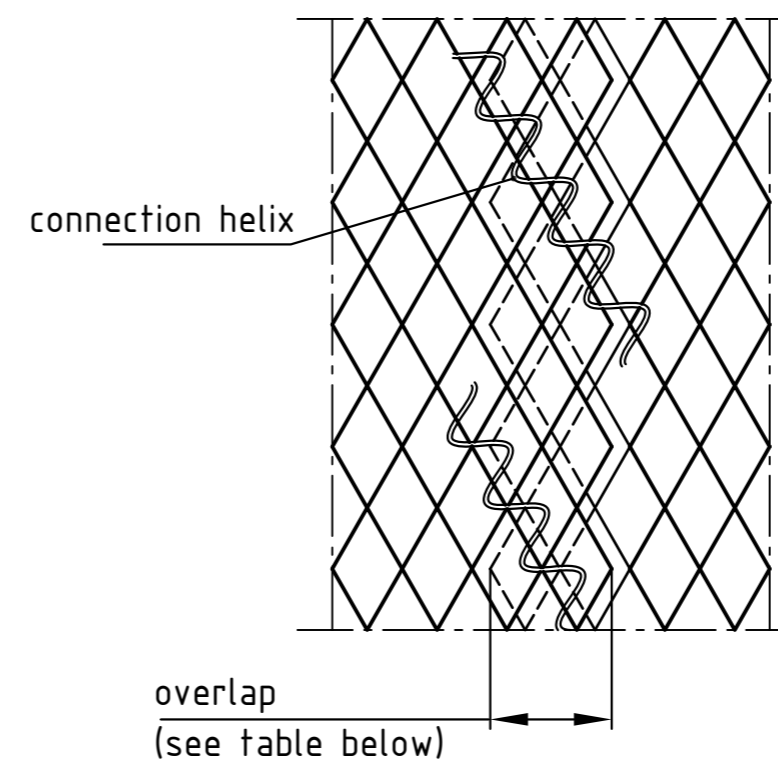


GROUND ANCHOR PLATE



F

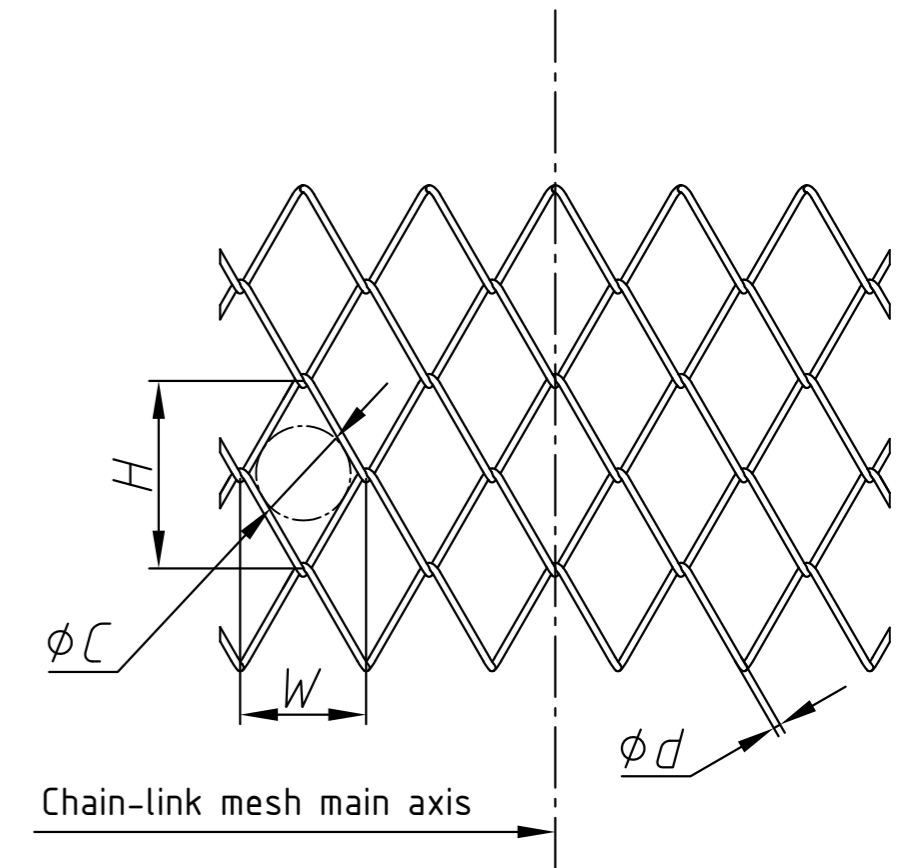
Connection of chain-link mesh sheets between each other with helices



Mesh type	Number of overlapping cells	Helix length L [mm]
W80x3	2	360
W80x4	2	360
W56x3	2	300
W56x4	3	360
W56x5	3	360
W40x4	3	280

CHAIN-LINK MESH 2D-GEO

technical regulation 1275-005-75212412-15



TECHNICAL CHARACTERISTICS					
2D-Geo chain-link mesh					
Mesh type	wire diameter d [mm]	Wire diameter d [mm]	Cell width W [mm]	Cell height H [mm]	Tensile strength of chain-link mesh in main axis [kN/m]
W80x3	3,0	63	80	130	40
W56x3	3,0	45	56	90	60
W80x4	4,0	63	80	130	75
W56x4	4,0	45	56	90	100
W40x4	4,0	30	40	70	155
W56x5	5,0	44	56	90	165

! Angle between main axis of chain-link mesh sheet and downslope line (perpendicular to isohypse) must be ≤ 25°

Geobarrier cable anchor

