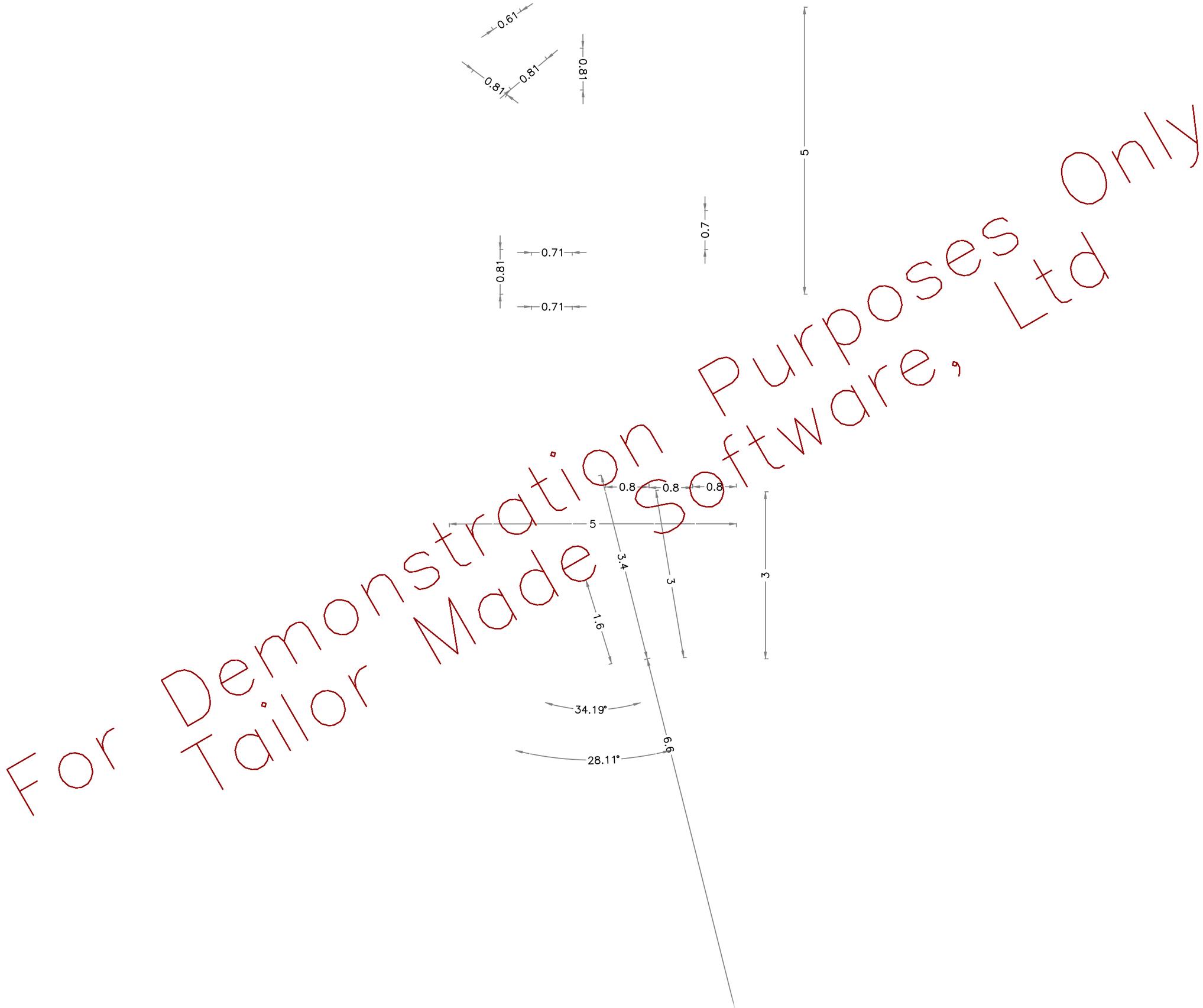

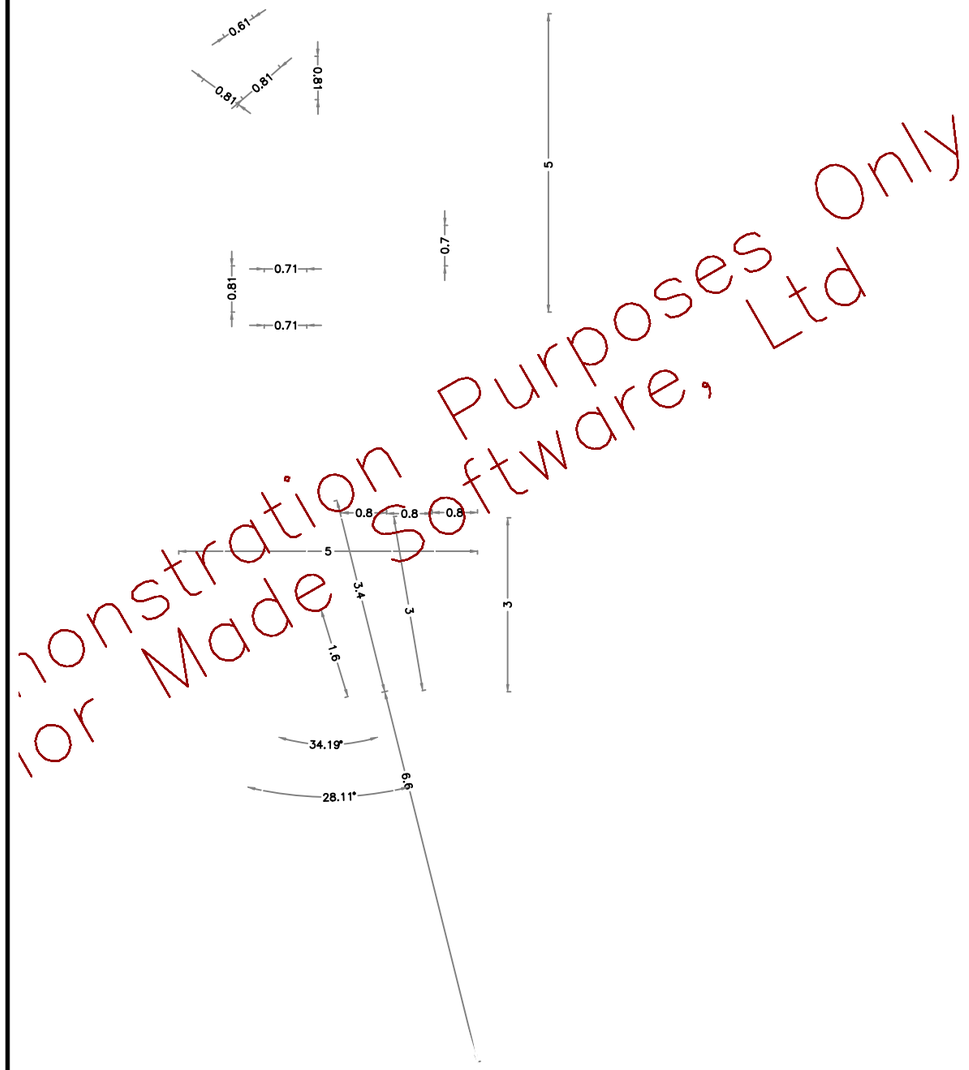

Notes

1. All dimensions are in metres unless otherwise specified.
2. Refer to DRG. No. 540–1001 for details of rock bolts, weep holes, weldmesh and excavation lines.
3. Permanent support to be defined by the Engineer.
4. Temporary support measures such as face dowells/spiles required to control face / crown stability shall be as directed by the Contractor in agreement with the Engineer.
5. The minimum cross sectional area of the finished tunnel is as follows.
   CLASS I : 23.68m?
   CLASS II : 23.40m?
   CLASS III : 22.90m?
   CLASS IV : 21.73m?
6. Sprayed concrete to be strength class C30/37.
7. For Class I, the rock bolt lengths are indicative and will be directed by the Engineer depending on the conditions encountered.
8. Water pressure tests shall be undertaken prior to all stages of grouting in a hole, unless otherwise directed by the Engineer. Immediately following the injection of water, grout shall be injected at pressures and rates as agreed with the Engineer. The residual rock permeability measured by water pressure tests following completion of consolidation grouting, shall not exceed 10 Lugeons.
9. In the event of high groundwater inflows or unstable ground, Pre–grouting treatment may be required. Such treatment, not detailed on this drawing, will be directed by the Engineer.
10. A minimum of 4m of probe or core holes to be maintained ahead of the face at all times.
11. No rock material will be permitted to remain within 'Minimum Excavation Line'. 'Average Overbreak Line' is a theoretical line, outside the 'Minimum Excavation Line' represents the average overbreak line.
    'Overbreak Line' is a theoretical line outside the 'Average Overbreak Line' beyond which payment for excavation and filling may be paid subject to inspection by the Engineer.
    Pay line shall be in accordance with the B Line as shown in the drawing ref:520–1300
12. Weepholes are to be drilled through the shotcrete where seepages are observed.
13. Tunnel geometry (A Line) for Classes Va and Vb shall be in accordance with. drawing 520–1301.

Key to symbols

Excavation line

Shotcrete

Reference drawings

520–1000 – Skhalta to Didachara transfer tunnel – General layout plan and section
520–1001 – Skhalta to Didachara transfer tunnel – Plan and section (Sheet 1 of 4)
520–1002 – Skhalta to Didachara transfer tunnel – Plan and section (Sheet 2 of 4)
520–1003 – Skhalta to Didachara transfer tunnel – Plan and section (Sheet 3 of 4)
520–1004 – Skhalta to Didachara transfer tunnel – Plan and section (Sheet 4 of 4)
520–1301 – Skhalta to Didachara transfer tunnel – Support Classes Va and Vb cross section and support details
540–1001 – Rock Bolt, Weephole and Weldmesh Standard Details Drawing

Safety, Health and Environment Information

Notes below are additional to hazards/risks normally associated with this type of work:

No additional hazards/risks identified.

Rev	Date	Drawn	Description	Ch?k?d	App?d
1	XX/XX/14	HK	For Construction	ME	–
0	20/02/14	HK	For Construction	ME	–

Client

Adjaristsqali Georgia LLC
1. Abashidze Street 6
6010 Batumi Georgia

Title

Shuakhevi HPP
Skhalta to Didachara Transfer Tunnel
Support classes I to IV
Cross Section and Support details

Designed	M.Er?elik		Eng check	O.Kuleyinoglu	
Drawn	H.Kayg?s?z		Coordination	–	
Dwg check	M.Er?elik		Approved	N.Kurdoglu	
Scale at A1: As Shown		Status: CON		Rev: 1	

Drawing Number: 520–3300

1:5 @ A1: 0, 0.25m, 0.5m

1:50 @ A1: 0, 2.5m, 5m

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