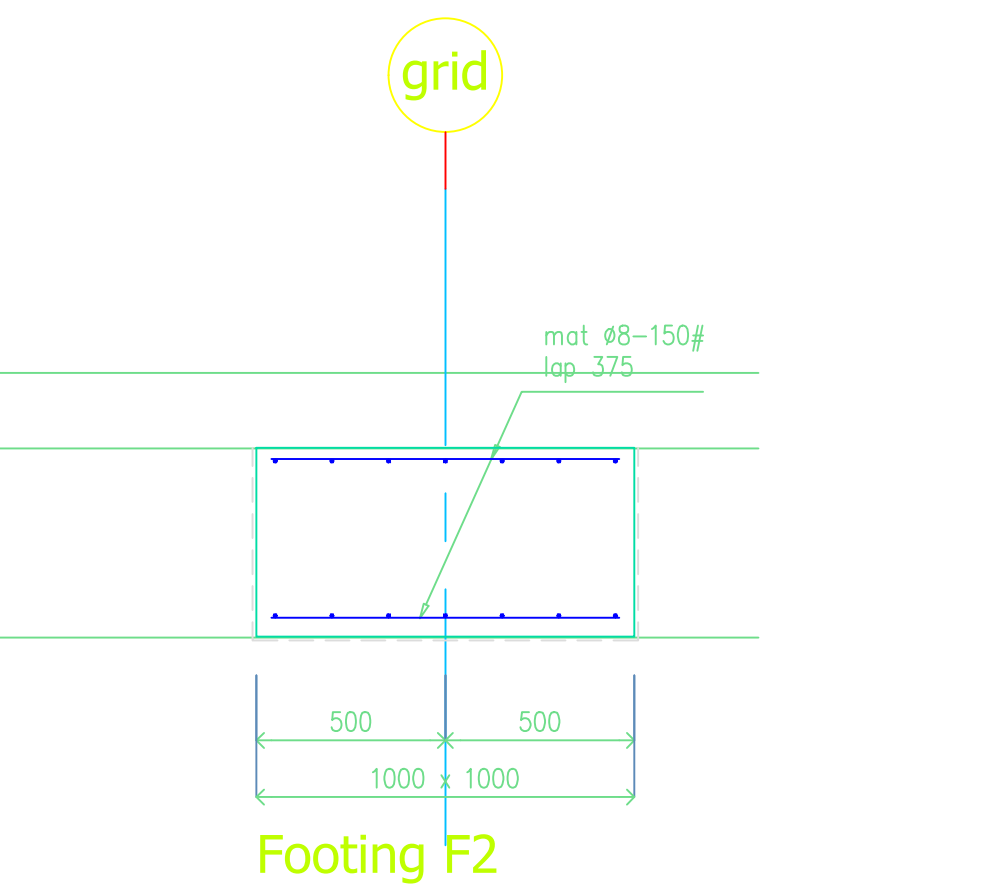
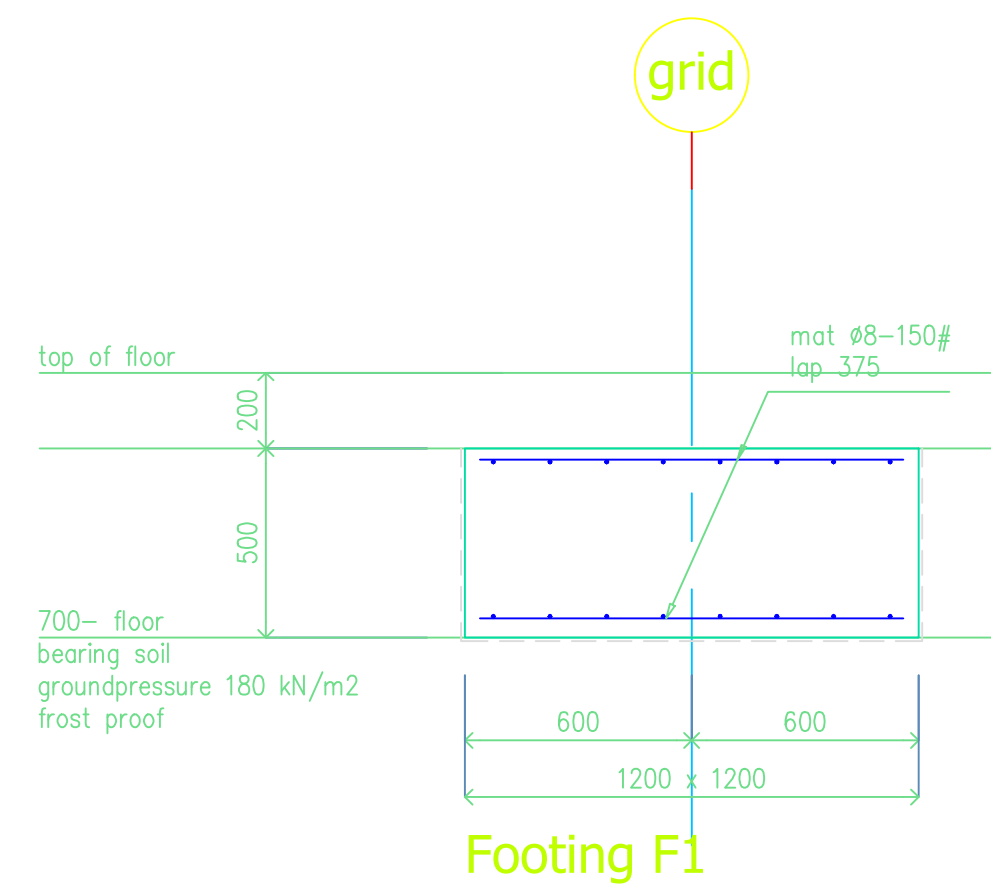
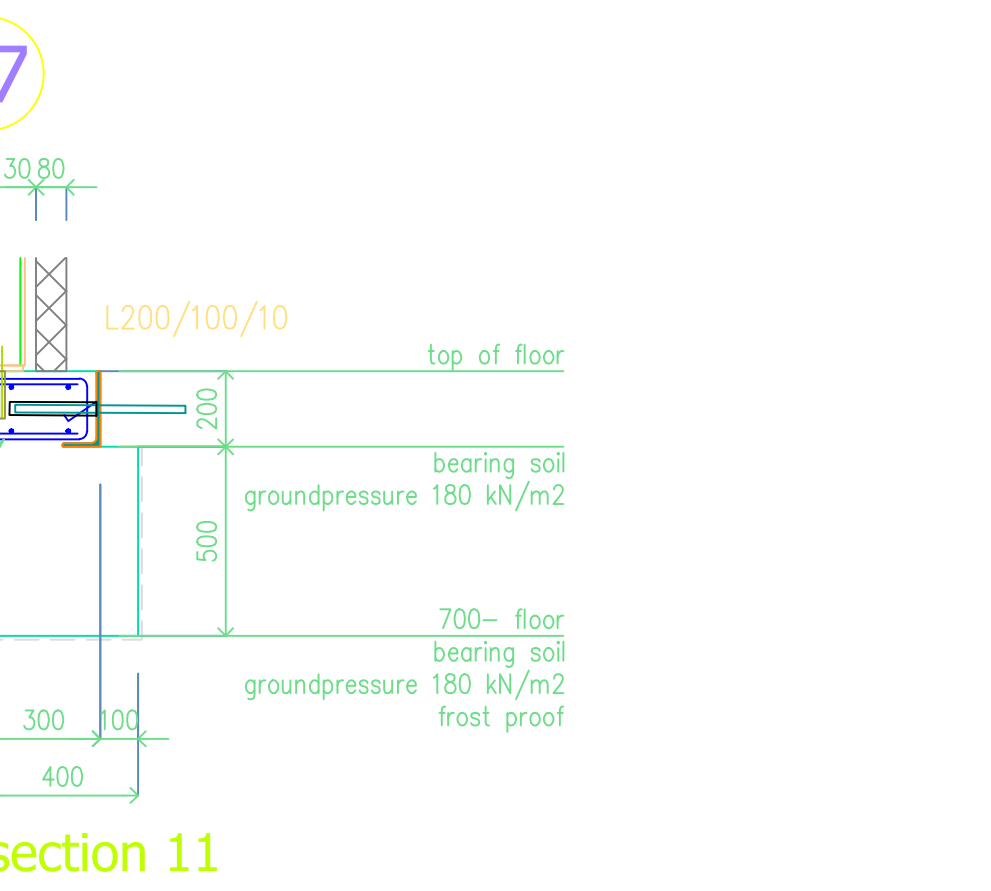
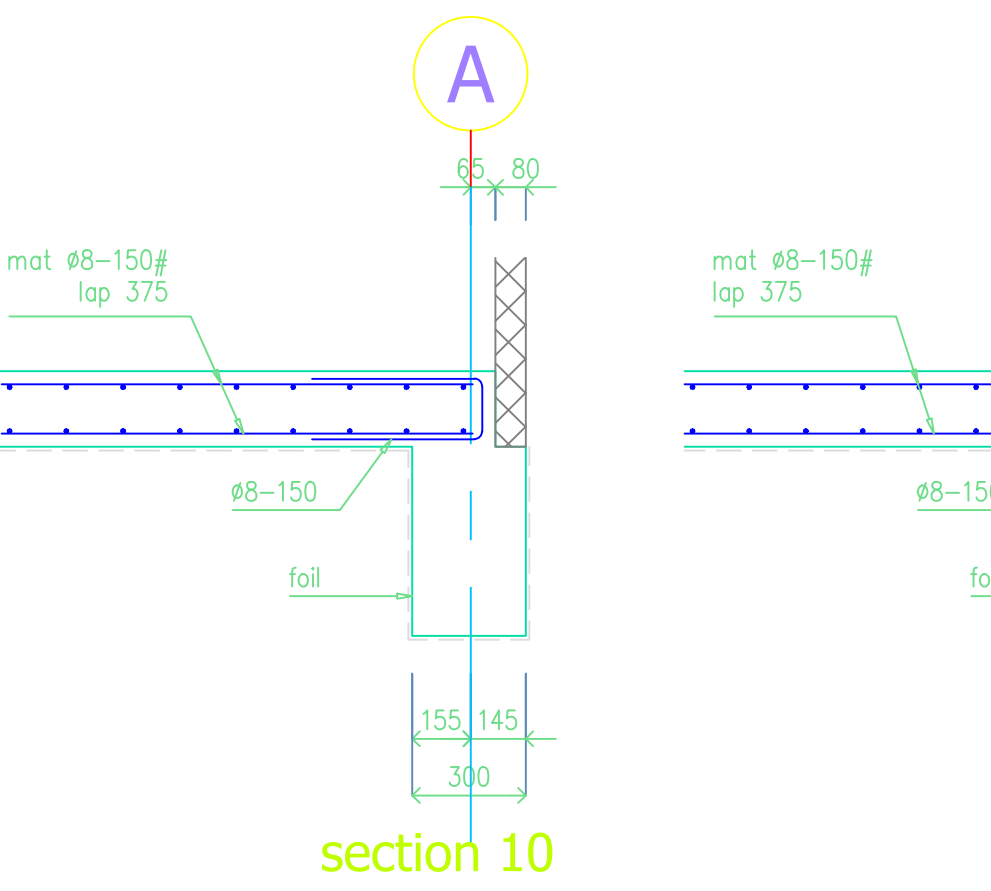
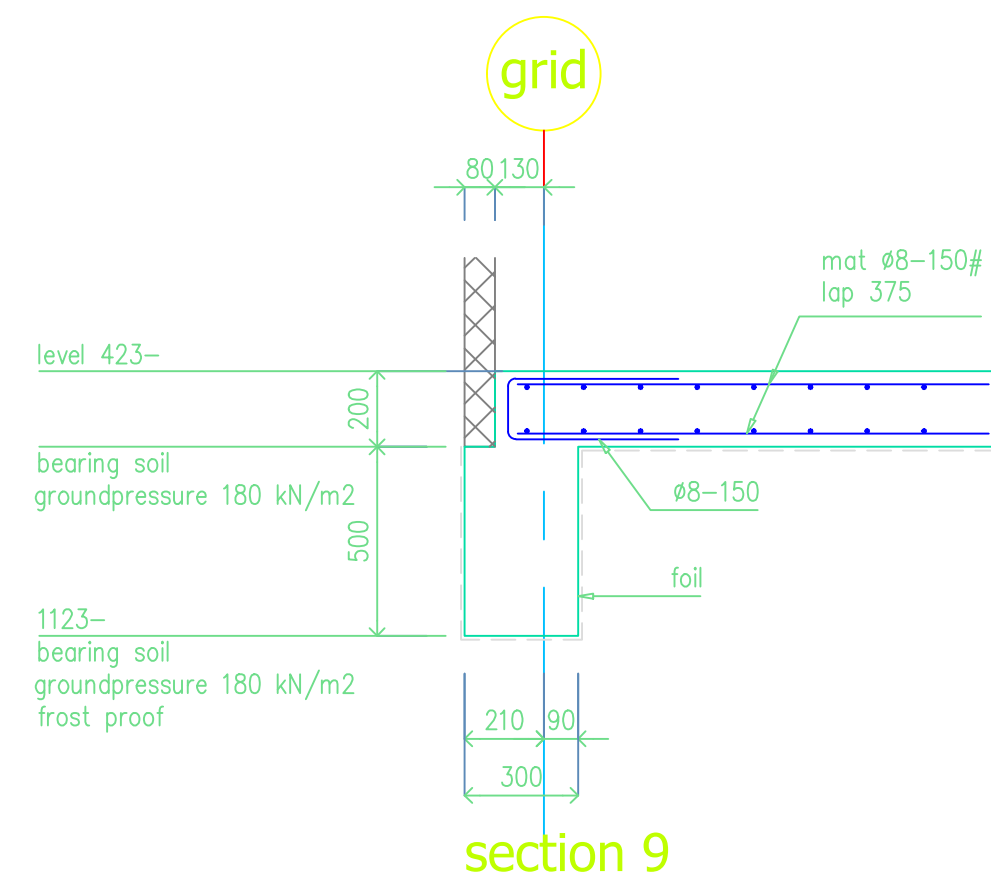
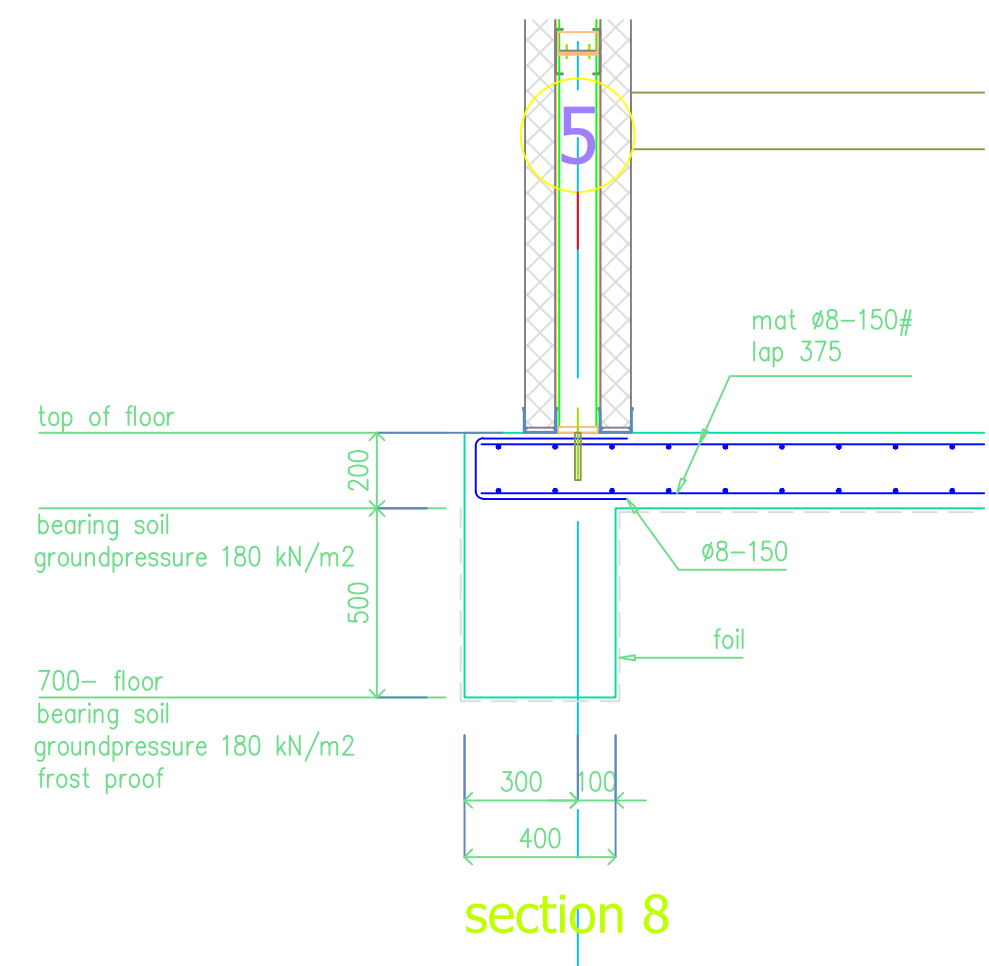
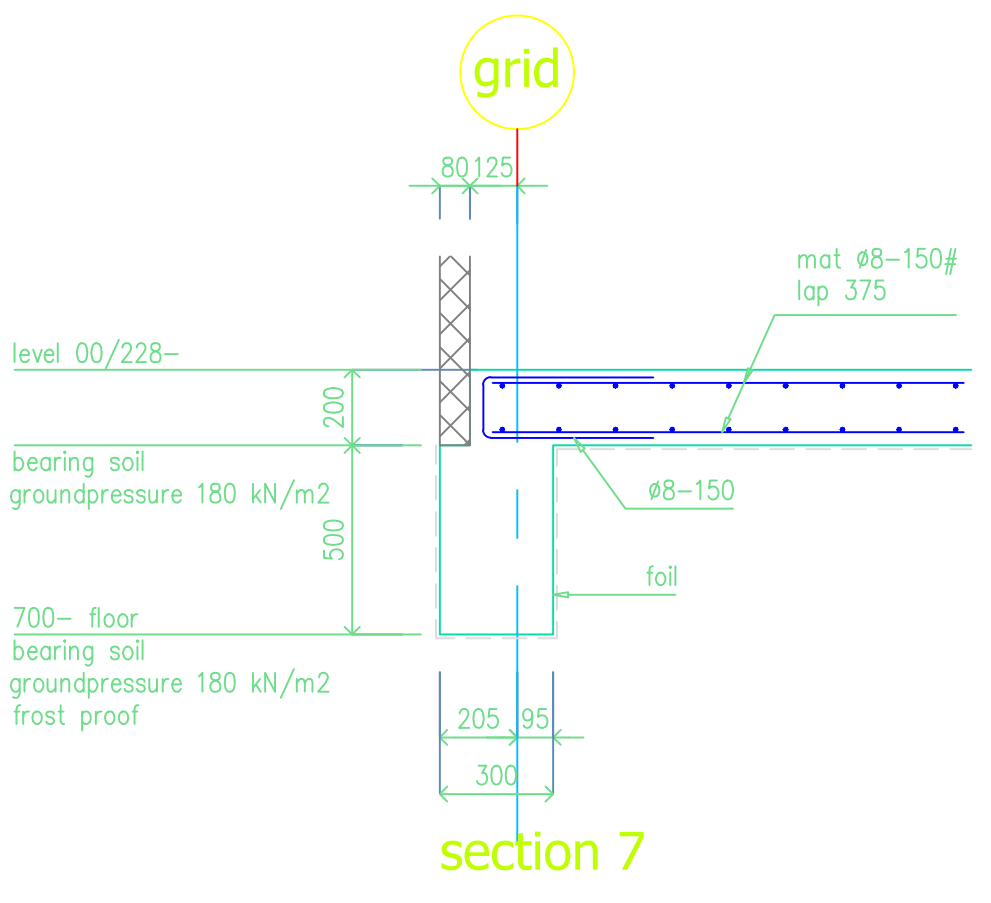
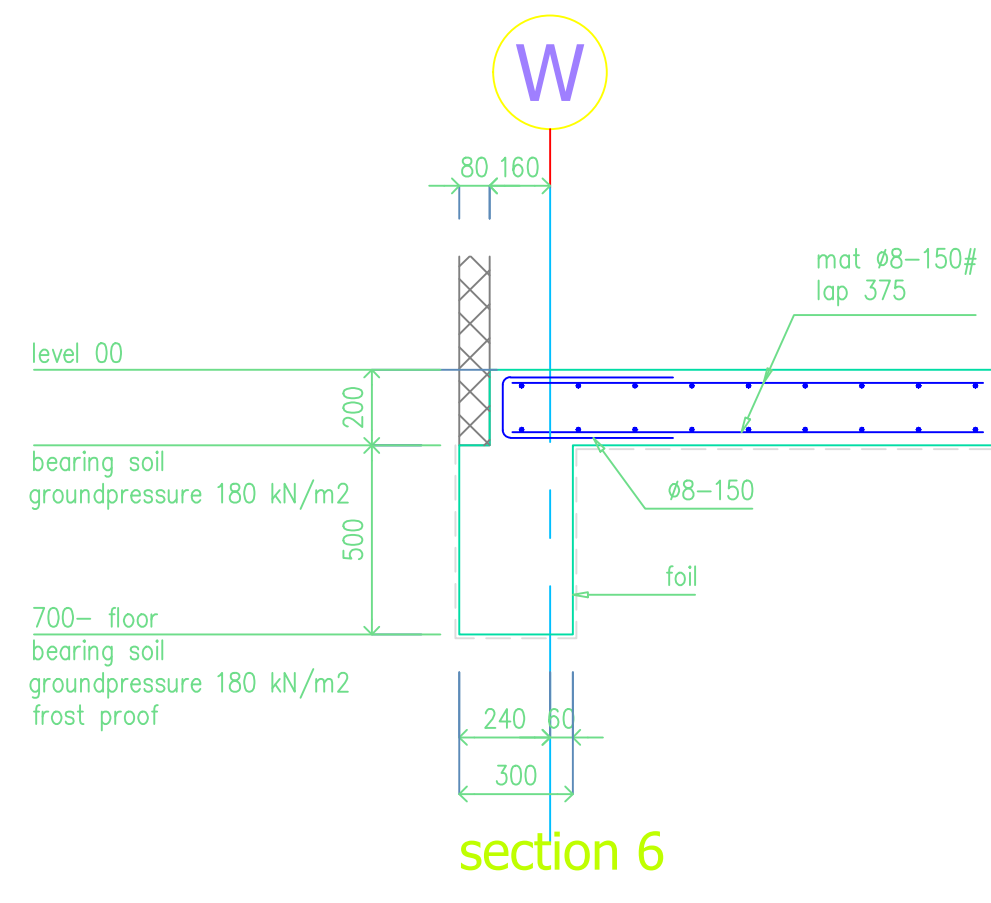
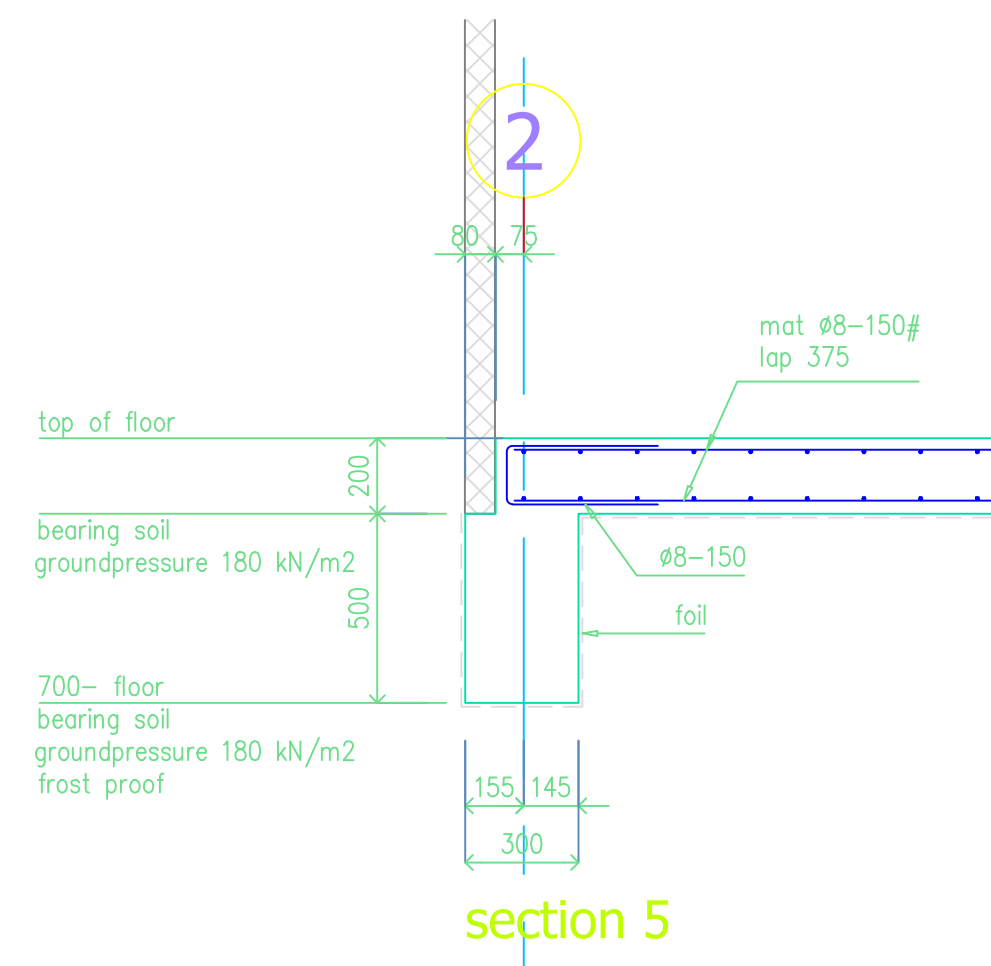
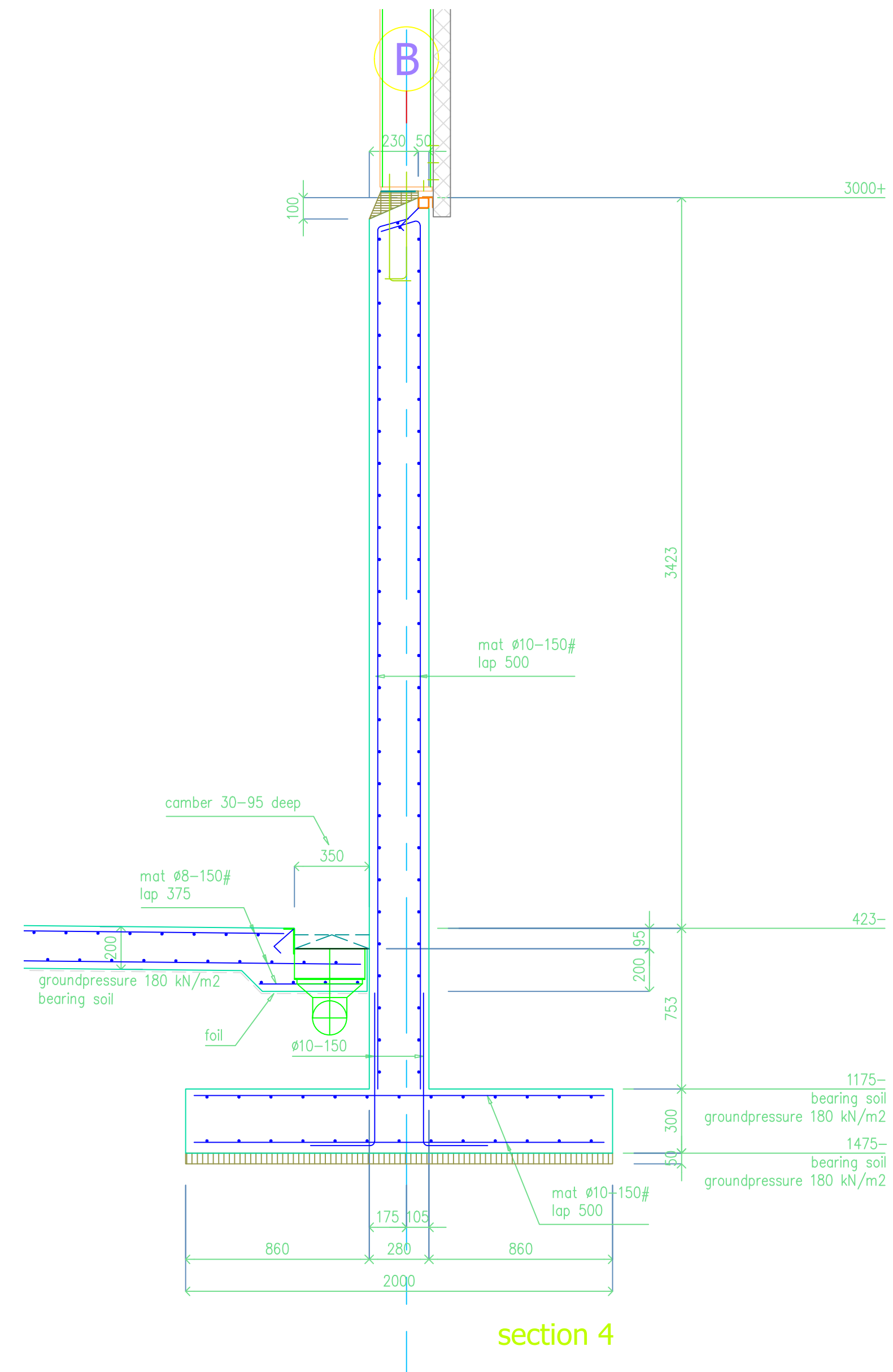
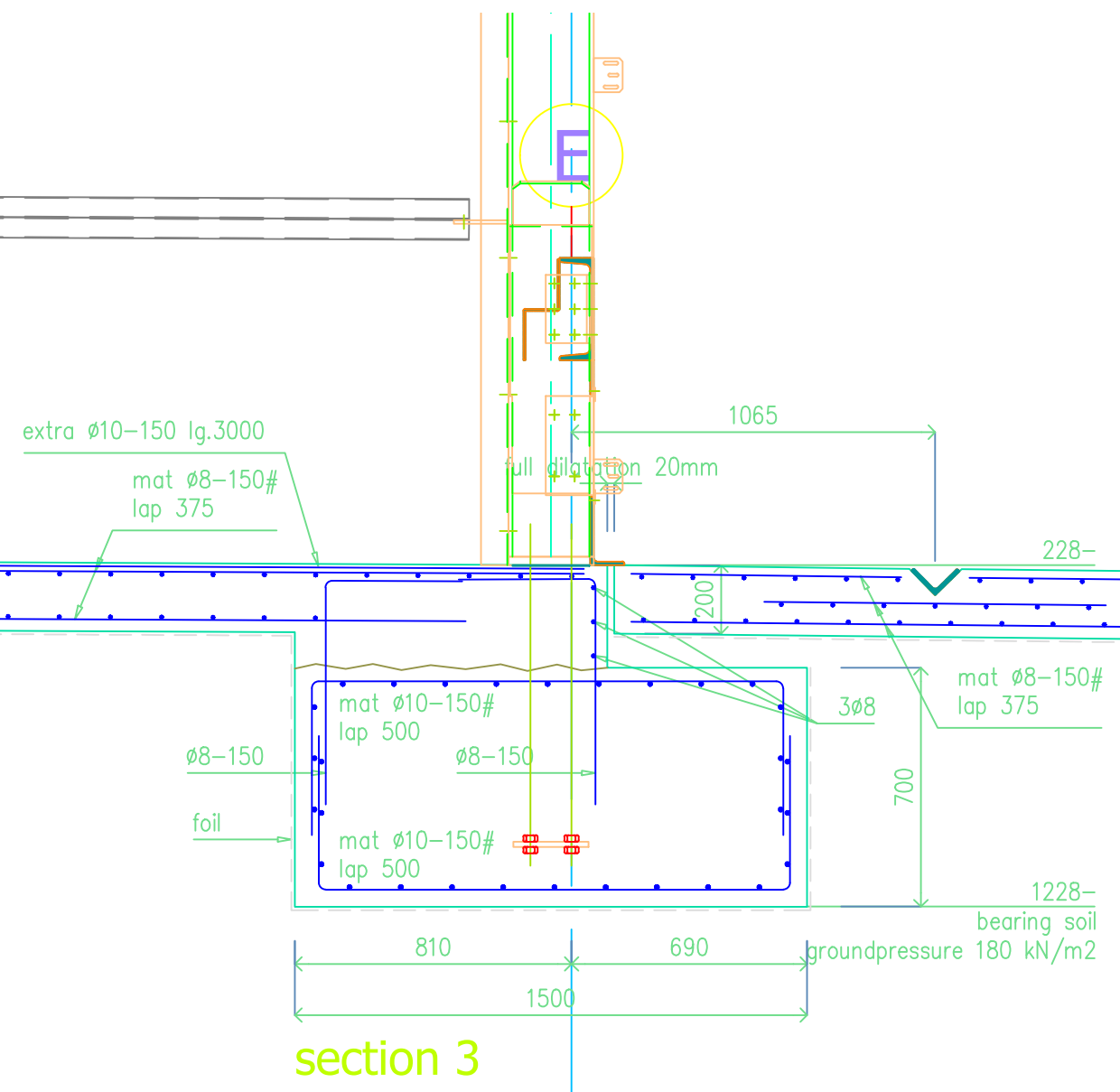
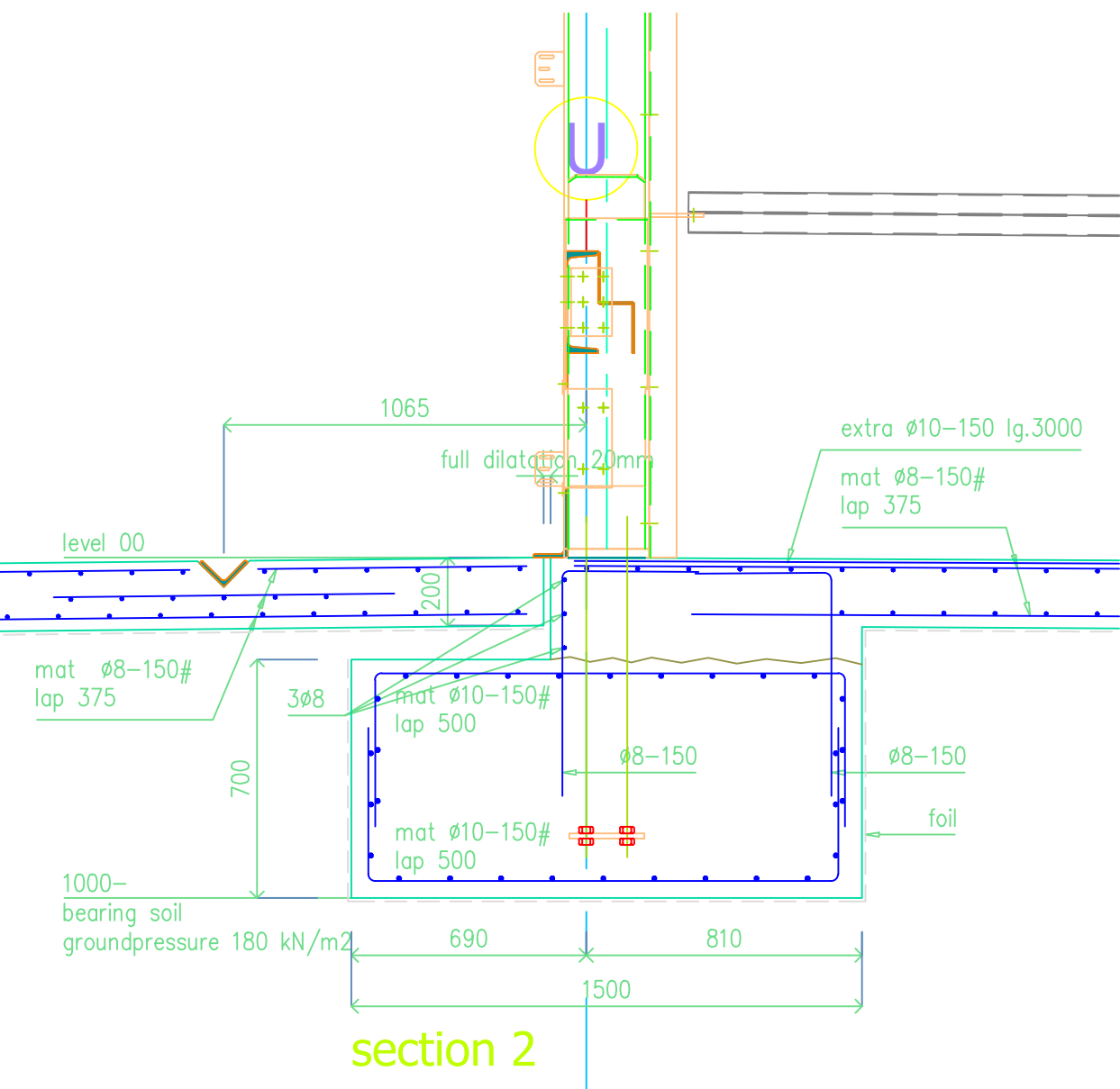
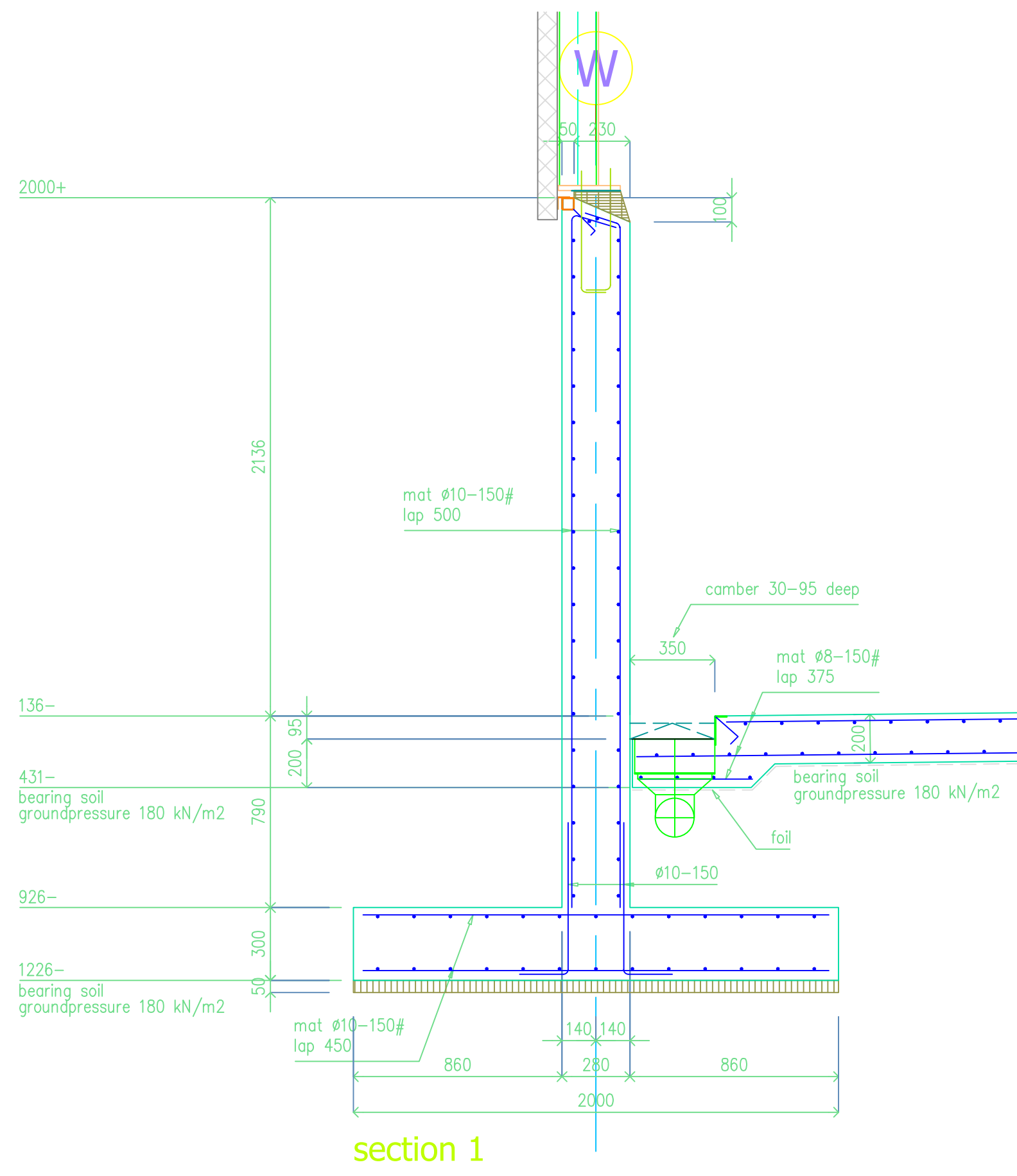




Basics calculation structure	
- Calculated according to dutch standards (Eurocode)	
- Snowload 40 kg/m² .	
SANDWICH PANELS and ROOFING SHEETS	
- sandwichpanels of ceiling take part of wind loads.	
- sandwichpanels provide stability.	
- Insulated roofing sheets & steel roofing sheets take care of stability in roof.	
- Insulated roofing sheets & steel roofing sheets fastened according to supplier/manufacturer.	

Standards for concrete constructions (general):	
Concrete grade:	$f_{cm} = 32 \text{ MPa}$
Steel quality:	FeB500
Environment grade:	XC2
Concrete cover:	refer details
Length of lap:	50x bar diameter
Practice standards, unless stated otherwise.	

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PROJECT: 11 Tunnels - Phase 2/3 in Pawłowiczki, Poland		status: Definitive
date: 04-07-2019		modification:
structural engineer: L. van Roij		structural designer: E. Baten
scale: 1:20		size: 840x640
project no.: M19-323		drawing no.: 1,2

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