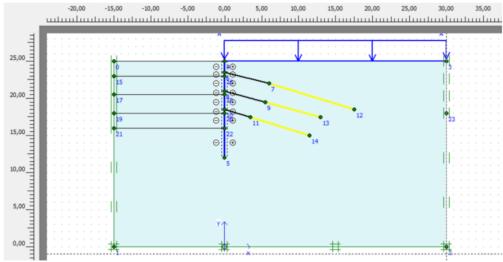
PROJECT2: Diaphragm wall analysis



A 12m deep wall is supported by three anchors per 2m along its length. The final excavation level is at 9m depth and the water table at 7m below surface.

Soil	Unit weight (KN/m³) Saturated/ unsutur.	Young's modulus E (kPa)	Friction Angle φ'(degrees)	Cohesion intercept c' (kPa)	Permeabi -lity (m/day)
Sandy silt	21/18.5	E50(ref)= 18750	25	22	0.121
Pc(reference) = 100kPa	Power m=0.5	Eoed(ref)= 12500	Dilation angle ψ=0	Tensile strength=0	
		Eur(ref)= 75000	Parameters required for soil hardening model		

Excava	anchor number	Depth (m)	Grouted	Fmax	EA
tion	/pre-stress in free	Left(L)/right(R)	length	extension/c	(kN)
depth	length (kN)	horizontal distance	Depth(m)	ompression	
(m)		from wall (hor.d.w.)	R/hor.d.w.	(kN)	
2	1/35	1.5/3	6.5/17.5	837/1	8.775x
		6			10^{4}
4	2/50	4/5.5	7.5/13	837/1	8.775x
		5.5			10^{4}
7	3/66	6.5/7.5	10.5/11.5	1116/1	1.170x
		3.5			10^{5}
9					

Table 2: Excavation and prop levels and characteristics