

WALL PROPERTIES

Type of structure = Fully Embedded Wall
 Elevation of toe of wall = 110.00
 Maximum finite element length = 0.60 m
 Youngs modulus of wall E = 2.8000E+07 kN/m2
 Moment of inertia of wall I = 3.3550E-03 m4/m run
 E.I = 93940 kN.m2/m run
 Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	121.00	3.00	0.010000	2.000E+08	4.00	0.00	0	No
2	117.30	3.00	0.010000	2.000E+08	4.00	0.00	0	No
3	115.50	1.00	0.500000	3.000E+07	1.00	0.00	0	No
4	120.00	1.00	0.250000	3.000E+07	1.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge ----- kN/m2 ----- Near edge Far edge		Equiv. soil type	Partial factor/ Category
1	122.40	0.00(A)	20.00	3.00	10.00	=	N/A	1.00 -
2	114.80	-0.00(P)	20.00	20.00	160.00	145.00	N/A	1.00 -

Note: A = Active side, P = Passive side
 A trapezoidal surcharge is defined by two values:
 N = at edge near to wall, F = at edge far from wall
 Limit State Categories P/U = Permanent Unfavourable
 P/F = Permanent Favourable
 Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 122.40 No analysis at this stage
2	Excavate to elevation 120.50 on PASSIVE side
3	Install strut or anchor no.1 at elevation 121.00
4	Excavate to elevation 116.80 on PASSIVE side
5	Install strut or anchor no.2 at elevation 117.30
6	Excavate to elevation 114.80 on PASSIVE side
7	Apply water pressure profile no.2 (Mod. Conserv.)
8	Install strut or anchor no.3 at elevation 115.50
9	Install strut or anchor no.4 at elevation 120.00
10	Remove strut or anchor no.2 at elevation 117.30
11	Remove strut or anchor no.1 at elevation 121.00
12	Apply surcharge no.2 at elevation 114.80 No analysis at this stage
13	Change properties of soil type 1 to soil type 5 Ko pressures will be reset
14	Change properties of soil type 2 to soil type 6 Ko pressures will be reset
15	Change properties of soil type 3 to soil type 7 Ko pressures will be reset
16	Change properties of soil type 4 to soil type 8 Ko pressures will be reset