UNITY

OF MAN

INPUT DATA--

NUMP	H	NL	DT	CV	CS	P1	PF	GAMMAW	PERM
29	100.00	1	.00050	20.000	2000.000	9672.000	13500.000	62.300	.005000

SOLUTION TO TERZAGHI≠S STANDARD DOUBLE-DRAINAGE ONE-DIMENSIONAL CONSOLIDATION TEST WITH VARYING LOAD
FOR 120 SUBLAYERS, WITH ULTIMATE CONSOLIDATION = 1.5361 , AND FOR FINAL LONG TERM AVERAGE LOAD =13500.000

(CURRENT LOAD IS 9672.000)

EXCESS PORE-WATER PRESSURE FOR TOP HALF OF H

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
0.	0.	0.	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
T = .00012500 , BETAV = .00360 , BETAS = .36000													
EFFECTIVE PRESSURE EQUALS			9975.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 9975.000)
(CHANGE IN EXTERNAL LOAD = 303.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.00050	.07	.001042	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
.00100	.07	.001071	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
.00150	.07	.001099	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
.00200	.07	.001127	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
.00250	.08	.001154	0.	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00	303.00
EFFECTIVE PRESSURE EQUALS			9975.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 10300.000)
(CHANGE IN EXTERNAL LOAD = 325.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.00300	.15	.002299	0.	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00
.00350	.15	.002357	0.	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00
.00400	.16	.002413	0.	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00
.00450	.16	.002469	0.	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00
.00500	.16	.002524	0.	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00	628.00
EFFECTIVE PRESSURE EQUALS			10300.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 11400.000)
(CHANGE IN EXTERNAL LOAD = 1100.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.00550	.41	.006363	0.	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00
.00600	.42	.006520	0.	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00
.00650	.43	.006676	0.	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00
.00700	.44	.006829	0.	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00
.00750	.45	.006981	0.	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00	1728.00
EFFECTIVE PRESSURE EQUALS			11400.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 12000.000)
(CHANGE IN EXTERNAL LOAD = 600.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.00800	.60	.009194	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.00850	.61	.009398	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.00900	.62	.009600	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.00950	.64	.009799	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01000	.65	.009995	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01050	.66	.010189	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01100	.68	.010381	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01150	.69	.010570	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01200	.70	.010757	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
.01250	.71	.010942	0.	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00	2328.00
EFFECTIVE PRESSURE EQUALS			12000.000	9672.001	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 12300.000)
(CHANGE IN EXTERNAL LOAD = 300.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.01300	.79	.012157	0.	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00
.01350	.81	.012366	0.	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00
.01400	.82	.012573	0.	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00	2628.00
EFFECTIVE PRESSURE EQUALS			12300.000	9672.001	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

(CURRENT LOAD IS 12550.000)
(CHANGE IN EXTERNAL LOAD = 250.000)

TIME	O/O CONSOL.	DELTA H	U(0)	U(1)	U(2)	U(3)	U(4)	U(5)	U(6)	U(7)	U(8)	U(9)	U(10)
.01450	.89	.013637	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01500	.90	.013863	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01550	.92	.014086	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01600	.93	.014306	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01650	.95	.014524	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01700	.96	.014740	0.	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
.01750	.97	.014953	0.	2877.99	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00	2878.00
EFFECTIVE PRESSURE EQUALS			12550.000	9672.006	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000	9672.000

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