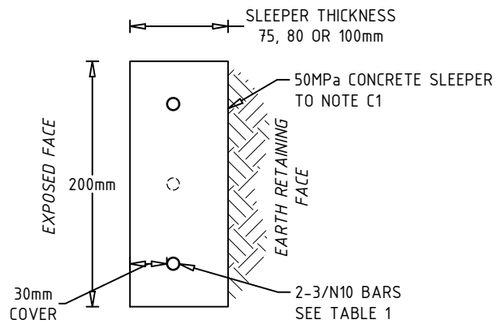
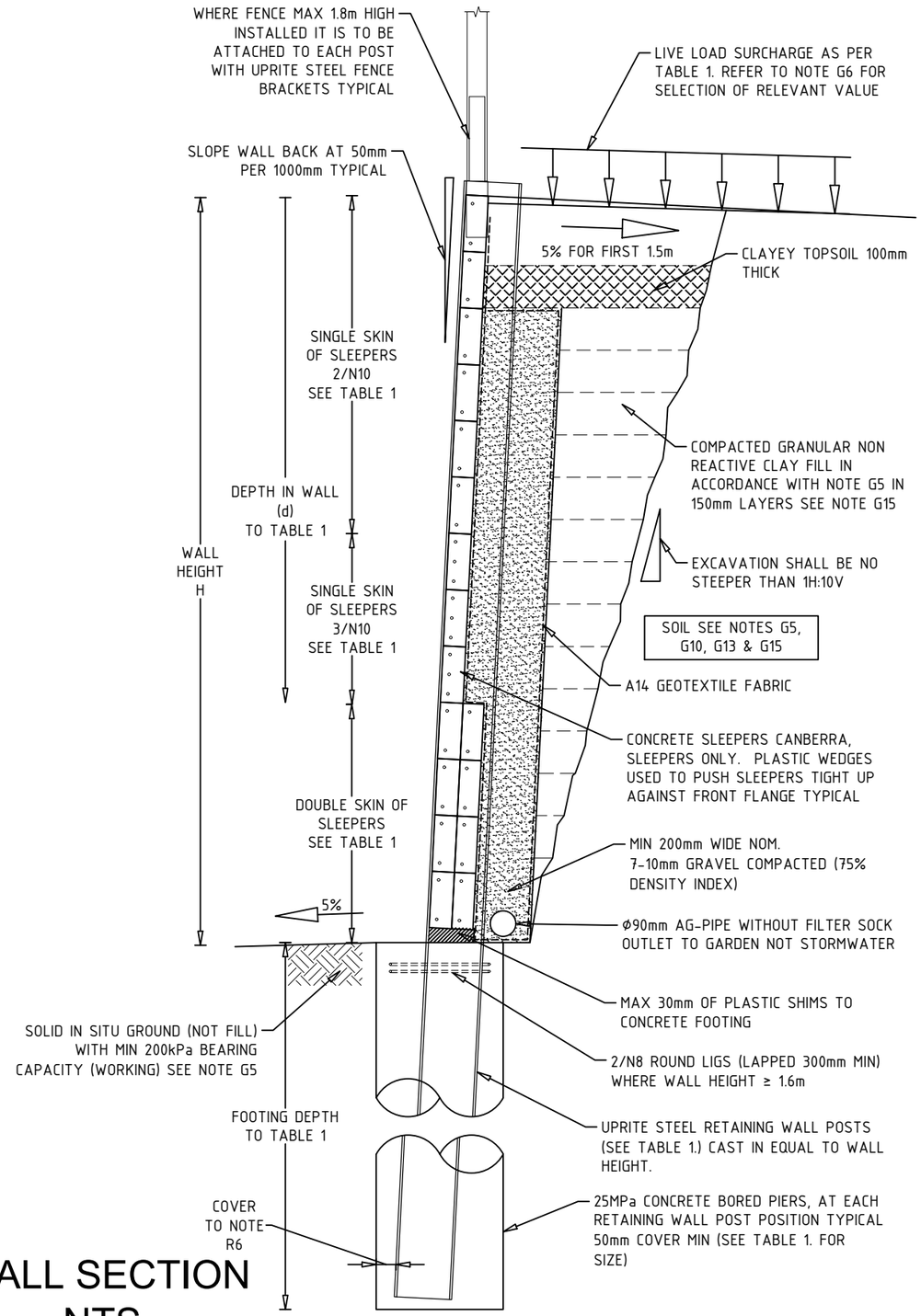
TABLE 1 - RETAINING WALL SPECS FOR 2.0m LONG SLEEPERS

Depth in wall (d) / Wall height (H) [m]	Surcharge: 0 kPa					Surcharge: 5 kPa				
	No. of skins of sleepers			min Steel post	Bored pier footing	No. of skins of sleepers			min Steel post	Bored pier footing
	75mm	80mm	100mm			75mm	80mm	100mm		
0.6	1	1	1	100UC14.8	Ø300 x 0.6m	1	1	1	100UC14.8	Ø300 x 0.6m
0.8	1	1	1	100UC14.8	Ø300 x 0.8m	1	1	1	100UC14.8	Ø300 x 0.8m
1	1	1	1	100UC14.8	Ø300 x 1 m	1	1	1	100UC14.8	Ø450 x 1.0m
1.2	1	1	1	100UC14.8	Ø300 x 1.2 m	1*	1	1	100UC14.8	Ø450 x 1.2m
1.4	1*	1	1	100UC14.8	Ø450 x 1.4 m	1*	1*	1	200UB22.4	Ø450 x 1.4m
1.6	1*	1*	1	200UB22.4	Ø450 x 1.6 m	1*	1*	1	200UB22.4	Ø450 x 1.8 m
1.8	1*	1*	1	200UB22.4	Ø450 x 1.8 m	2	1*	1	200UB22.4	Ø450 x 2 m
2	2	1*	1	200UB22.4	Ø450 x 2 m	2	2	1*	200UB22.4	Ø450 x 2.2 m
2.2	2	2	1*	200UB22.4	Ø450 x 2.2 m	2	2	1*	200UB25.4	Ø450 x 2.4 m
2.4	2	2	1*	200UB25.4	Ø450 x 2.4 m**	2	2	1*	200UC46.2	Ø450 x 2.6 m**
2.6	2	2	1*	200UB29.8	Ø450 x 2.6 m**	2*	2	1*	200UC46.2	Ø450 x 2.8 m**
2.8	2*	2	1*	200UC46.2	Ø450 x 2.8 m**	2*	2	2	200UC46.2	Ø450 x 3 m**
3	2*	2	2	200UC46.2	Ø450 x 3 m**	2*	2	2	200UC59.5	Ø450 x 3.2 m**

1. SELECT WALL HEIGHT (H) AND TYPE OF SLEEPER (75, 80 OR 100mm THICK) DEPENDING ON THE APPLICABLE SURCHARGE FOR THE APPLICATION. SEE NOTE G6.
2. DETERMINE DEPTH AT WHICH SLEEPERS WITH 3/N10 BARS OR DOUBLE THICKNESS OF SLEEPERS ARE NEEDED FROM TABLE 1. SECOND SLEEPER TO BE min 75mm THICK WITH 2/N10 REINFORCEMENT U.N.O.. SEE KEY BELOW.
   - 1* : ONE SLEEPER WITH 3/N10 REINFORCEMENT REQUIRED.
   - 2* : DOUBLE UP WITH 80mm SLEEPER WITH 2/N10.
   - (**) : LEAN BORED PIER OR INCREASE DIAMETER TO PROVIDE SUFFICIENT COVER TO STEEL POST TO NOTE R6.
3. DETERMINE REQUIRED STEEL POST AND FOOTING SIZE FROM TABLE 1.



CONCRETE SLEEPER DETAIL
1:5 @ A3



WALL SECTION
NTS

THIS DRAWING MUST BE READ IN CONJUNCTION WITH DRAWING S01 ISSUED ON 27/07/2022

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PROJECT
2.0m CONCRETE SLEEPER EARTH RETAINING WALL, STANDARD DESIGN

TITLE
CROSS SECTION AND DETAILS

DESIGN	DRAWN	DATE	DRG NO.
LC/FC	FC/LA	27-07-2022	**S02**