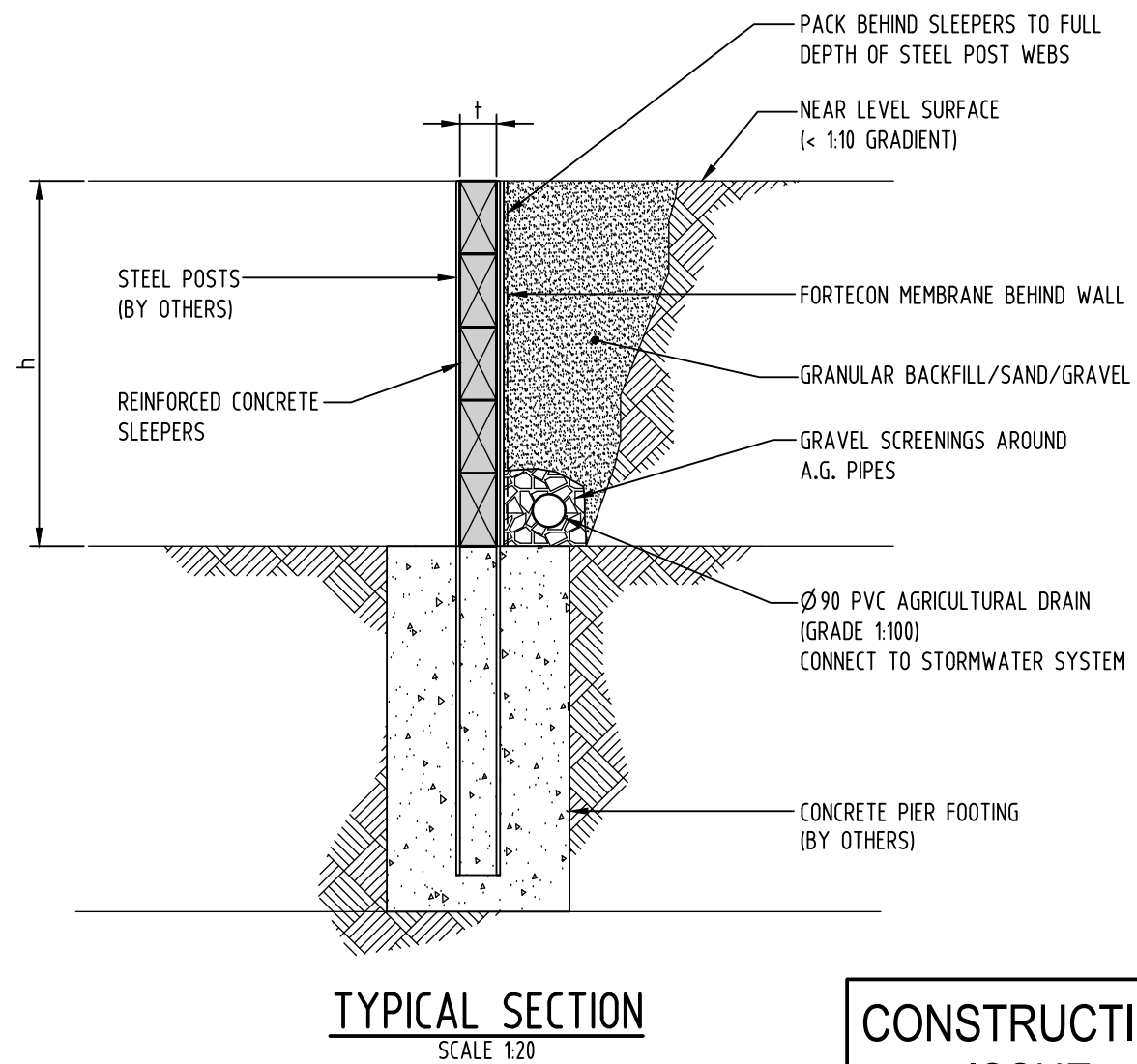


NOTE:
PATTERN FACE SHALL NOT ENCR OACH INTO SLEEPER MIN. THICKNESS 't'



CONSTRUCTION ISSUE

- SPECIFICATIONS**
- SLEEPER CONCRETE GRADE TO BE N40. RIGID FORMWORK & INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS 3600 IS REQUIRED FOR CASTING EACH SLEEPER.
 - HAND COMPACTING EQUIPMENT ONLY IS PERMITTED TO BE USED ADJACENT SLEEPERS (WITHIN DISTANCE = 0.75H)
 - THESE SLEEPER SPECIFICATIONS ARE ONLY SUITABLE FOR USE WITH RETAINING WALLS WHICH SATISFY THE FOLLOWING CONDITIONS/LIMITATIONS.
 - THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS. FOR EXAMPLE, NEARBY EXISTING RETAINING WALLS, STRUCTURES OR BUILDINGS WITHIN A DISTANCE EQUAL TO TWO TIMES THE WALL HEIGHT.
 - THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LEVEL OR ONLY SLIGHT - ie. LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL.
 - THE WALL BACKFILL IS FREE DRAINING, CONSISTING OF SAND &/OR GRAVEL.
 - ALL SUB-SURFACE WATER IS DRAINED BY MEANS OF AN AGRICULTURAL DRAIN, OR OTHER SUITABLE METHOD.
 - SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION & ERECTION.
 - SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN 25mm EACH END.
 - FOR DETERMINATION OF THE APPROPRIATE SLEEPER TYPE, THE HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE APPLICABLE SLEEPER. A WALL FACE CROSS SECTION MAY CONSIST OF VARIOUS SLEEPER TYPES.

ASSUMED SOIL PROPERTIES	
γ_s	= 18kN/m ³
ϕ	= 30°
ASSUMED MAX. SURCHARGE	
Q	= 5kPa

SLEEPER LENGTH (l) = 2400mm

WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
2.4m STD (GREEN)	≤ 1.4	80	2-N12
2.4m HEAVY DUTY (BLUE)	1.4m < h ≤ 2.5m	100	2-N12
2.4m EXTRA HEAVY DUTY (RED)	2.5m < h ≤ 4.0m	130	2-N12

NOTE:

- PANELS & SLEEPERS MAY BE USED TOGETHER. FOR PANEL TYPES REFER DRAWING WAD150933-S10.

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
Ø	24.11.17	CONSTRUCTION ISSUE	RB	NM	CL

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CONCRETE SLEEPERS
OUTBACK SLEEPERS AUSTRALIA P/L

2400mm LONG SLEEPER

A3

Design: C.LINDNER
Drawn: R.BROWN

JOB NUMBER: ADL171037
DRAWING NUMBER: S02