

## SPECIFICATIONS

1. SLEEPER CONCRETE GRADE TO BE N60. RIGID FORMWORK & INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS 3600 IS REQUIRED FOR CASTING EACH SLEEPER.
2. HAND COMPACTING EQUIPMENT ONLY IS PERMITTED TO BE USED ADJACENT SLEEPERS (WITHIN DISTANCE = 0.75H)
3. 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 LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL.
  - SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION & ERECTION.
4. SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN 25mm EACH END.
5. 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

$\gamma_s$	=	18kN/m <sup>3</sup>
$\phi$	=	30°

### ASSUMED MAX. SURCHARGE

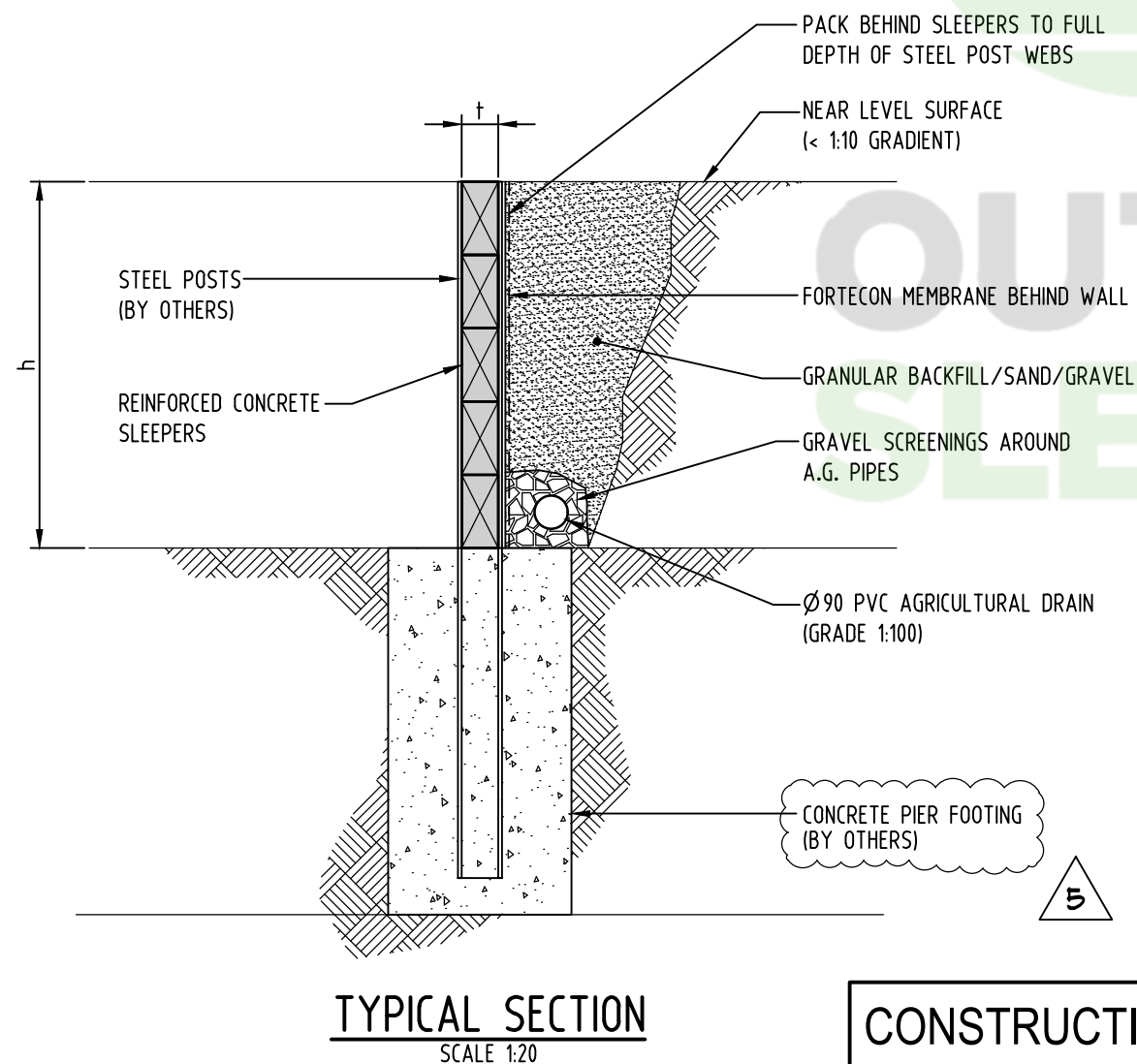
Q	=	5kPa
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## SLEEPER LENGTH (l) = 2000mm

WALL TYPE	WALL HEIGHT (h)	THICKNESS t (mm)	REINFORCEMENT
2m STD (GREEN)	$\leq 2.0m$	75	2-N10
2m (HD) HEAVY DUTY (YELLOW)	$2.0m < h \leq 3.0m$	100	2-N10
2m (EHD) EXTRA HEAVY DUTY (RED)	$3.0m < h \leq 4.0m$	110	2-N10

## NOTE:

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



**TYPICAL SECTION**  
SCALE 1:20

**CONSTRUCTION  
ISSUE**

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	16.11.15	CONSTRUCTION ISSUE	MJS	NM	CL
1	17.02.16	CONSTRUCTION REISSUE	MJS	NM	CL
2	16.06.17	CONSTRUCTION REISSUE	MJS	NM	CL
3	10.05.19	CONSTRUCTION REISSUE	AA	RS	CL
4	24.05.19	CONSTRUCTION REISSUE	AA	RS	CL
5	03.07.20	CONSTRUCTION REISSUE	AA	RS	CL

**WGA**  
WALLS & GILBERT  
AZTEC  
60 Wyatt Street, Adelaide  
South Australia 5000  
Telephone 08 8223 7433  
Email adelaide@wga.com.au

**CONCRETE SLEEPERS**  
OUTBACK SLEEPERS AUSTRALIA P/L

**2000mm LONG SLEEPER**

**A3**  
Design: C.LINDNER  
Drawn: M.SMITH  
Job Number: WAD150933  
Sheet No. S01  
Rev. 5