

## **DESIGN BASIS**

DESIGN LIFE

MAXIMUM ACCEPTABLE DEFLECTION OF RETAINING WALL

60 YEARS

18 kN/m³

100 kPa

MAX. UPHILL SLOPE

1 in 4 (14°) 30° (REFER TO GEOTECH)

FILL SOIL FRICTION ANGLE

GROUND BEARING CAPACITY SURCHARGE

FILL DENSITY

5 kPa 1/2 RETAINING WALL HEIGHT

HYDROSTATIC PRESSURE HEIGHT
 ALL PARAMETERS TO BE CONFIRMED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER

## **GENERAL NOTES:**

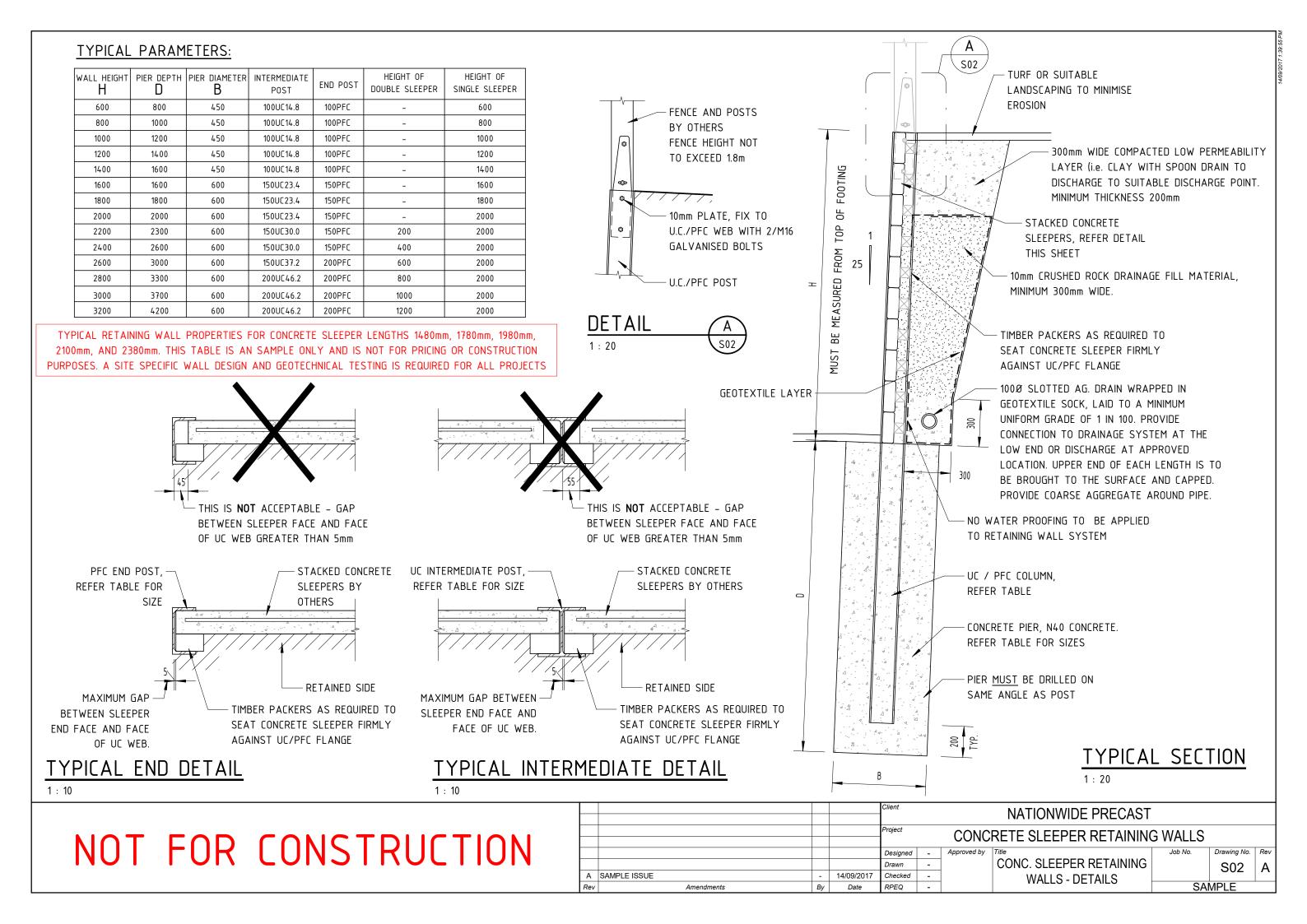
- ALL WORK TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA, THE BUILDING ACT, LOCAL AUTHORITY BY-LAWS AND AS 3600 *CONCRETE STRUCTURES*.
- · STEEL POSTS TO BE HOT-DIP GALVANISED
- FOUNDATIONS TO BE ENGINEER INSPECTED PRIOR TO INSTALLATION OF POSTS TO CONFIRM STABILITY OF FOUNDING MATERIAL
- BUILDER TO ENSURE CONSTRUCTION DOES NOT ADVERSELY EFFECT EXISTING STRUCTURES OR SERVICES. SURCHARGE LOADS NOT TO BE IMPOSED ON THE RETAINING WALL BY ANY PERMANENT STRUCTURE NOR SHALL THE RETAINING WALL CAUSE A SURCHARGE LOAD ON ANY OTHER STRUCTURE
- IF CONCRETE SLEEPERS ARE CUT, PAINT EXPOSED ENDS WITH AT LEAST 2 COATS OF BITUMASTIC PAINT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- GLOBAL STABILITY CHECK OF EARTHWORKS AND RETAINING WALL BY
- GEOTECHNICAL ENGINEER OR SUBDIVISION ENGINEER
- A TYPICAL DOMESTIC FENCE MAY BE CONSTRUCTED ABOVE THIS RETAINING WALL, FENCE HEIGHT NOT TO EXCEED 1.8m
- BACKFILL BEHIND RETAINING WALLS WITH FREE DRAINING GRANULAR MATERIAL AND INSTALL 6mm F.C. PACKING AT 600 CENTRES BETWEEN PANELS, 400mm FROM BASE OF WALL TO FORM A CONTINUOUS WEEP HOLE DRAINAGE SLOT.
- PROVIDE GEOTEXTILE BETWEEN GRANULAR MATERIAL AND EMBANKMENT/TOP COVER MATERIAL AND LAP GEOTEXTILE MATERIAL 200mm MINIMUM. GEOTEXTILE TO BE OF STRENGTH CLASS B AND FILTRATION CLASS 2 FOR GRANULAR SOILS OR CLASS 3 FOR COHESIVE SOILS IN ACCORDANCE WITH DEPARMENT OF TRANSPORT AND MAIN ROADS SPECIFICATION MRTS27
- ENSURE A MINIMUM 200mm THICKNESS OF GRANULAR MATERIAL FOR ALL SITES.
- WHERE RETAINING WALLS ARE GREATER THAN 2m HIGH, INCREASE THE WIDTH OF FREE DRAINING GRANULAR MATERIAL TO AVERAGE AN ADDITIONAL ONE EIGHTH (1/8) OF THE WALL HEIGHT WHERE THE RETAINED MATERIAL IS OF REACTIVITY CLASS 'H1' OR GREATER.
- FOR SITES WITH WALLS IN EXPANSIVE SOIL, CONSTRUCT THE FACE OF THE WALL TO LEAN INTO THE RETAINED MATERIAL WITH A FACE SLOPE OF 1 HORIZONTAL TO 25 VERTICAL
- UNLESS SHOWN OTHERWISE, CONCRETE USED IN THE WORKS SHALL HAVE THE FOLLOWING PROPERTIES:

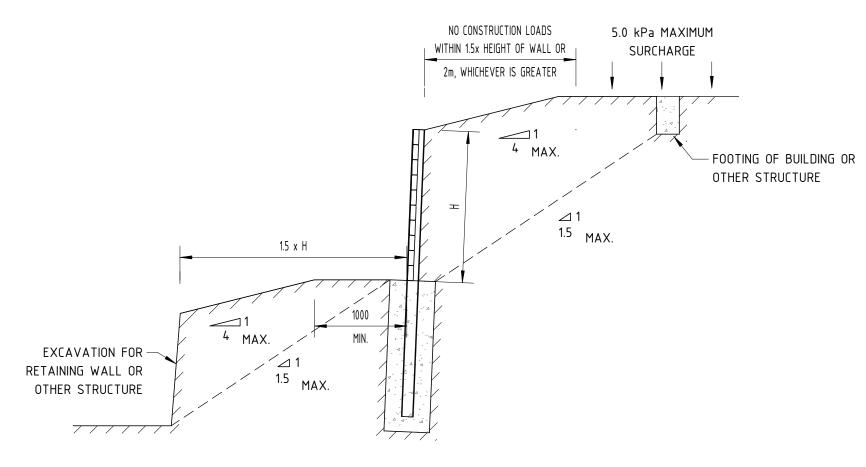
ELEMENT	f'c AT 28 DAYS (MPa)	MAX. AGGREGATE SIZE (mm)	CONCRETE GRADE	
FOOTINGS	AS NOTED	20	80	N40
BLINDING	15	20	100	N40

## NOT FOR CONSTRUCTION

NO CONSTRUCTION LOADS ALLOWED WITHIN 1.5 x HEIGHT OF WALL

				NATIONWIDE PRECAST							
		$\vdash$		CONCRETE SLEEPER RETAINING WALLS							
				Designed	-	Approved by	Title	Job No.	Drawing No.	Rev	
				Drawn	-		CONCRETE SLEEPER		S01	A	
Α	SAMPLE ISSUE	-	14/09/2017	Checked	-		RETAINING WALL - GENERAL		00.	' `	
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RETAINING WALL - TYPICAL SECTION
1:50

NOT FOR CONSTRUCTION

					NATIONWIDE PRECAST						
					CONCRETE SLEEPER RETAINING WALLS						
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1					Drawn	-		CONC. SLEEPER RETAINING		S03	A
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