DESIGN CRITERIA CHECKLIST

DCC/01

Issue Date/Revision:
01-Mar-04/1

CONCRIB® CRIBWALL

PROJECT INFORMATION

REQUEST FROM		COMPANY			
TELEPHONE		FAX		EMAIL	
PROJECT NAME					
LOCATION		CITY/REGION			

STRUCTURE CLASSIFICATION

For guidance refer AS4678 Table 1.1

Structure Classification	Examples	Please Tick
C (1)	Failure would result in significant damage or risk to life	
B (2)	Failure would result in moderate damage and loss of services	
A (3)	Failure would result in minimal damage and loss of access	

STRUCTURE DESIGN LIFE

For guidance refer AS4678 Table 3.1

Type of structure	Design life	Please tick	Type of structure	Design Life	Please tick
Temporary site works	5 yrs		Residential dwellings, river & marine structures	60 yrs	
Mine structures	10 yrs		Minor public works	90yrs	
Industrial structures	30 yrs		Major public works	120yrs	

WALL PROPERTIES

Wall height above GL (Ht)		m	**Cribwall infill material type (Please Tick)**			**Cribwall face angle (Please Tick)**		
Foundation depth (Hf)		m	Crushed basalt rock loose density	1.5 t/m^3		1: 4 Typical	75.9 deg	
Filter fabric behind wall	(Y/N)					1: 8 (Maximum) Other	82.9 deg	

LOADS ON STRUCTURE

Distributed Loads	**(ω1)**	**(ω2)**	**Line Loads**	**P1**	**P2**	**P3**
Magnitude (kPa)			Magnitude (kN/m)			
Offset X from top of wall (m)			Offset X from top of wall (m)			
Earthquake Site Factor (s)			Earthquake Coefficient (α)			

RETAINED SLOPE GEOMETRY BACKFILL PROPERTIES (Drained)

Bulk Soil Density (γ)		kN/m^3	2nd horizontal distance from top of batter behind top stretcher (L2)		m
Effective Internal friction angle (ϕ')		deg	2nd batter slope angle (Ψ2')		deg
Effective Cohesion (c')		kPa	3rd batter slope angle (Ψ3')		deg
1st horizontal distance from top of batter behind top stretcher (L1)		m			
1st Batter slope angle (Ψ1')		deg			

FOUNDATION MATERIAL PROPERTIES
(Drained)

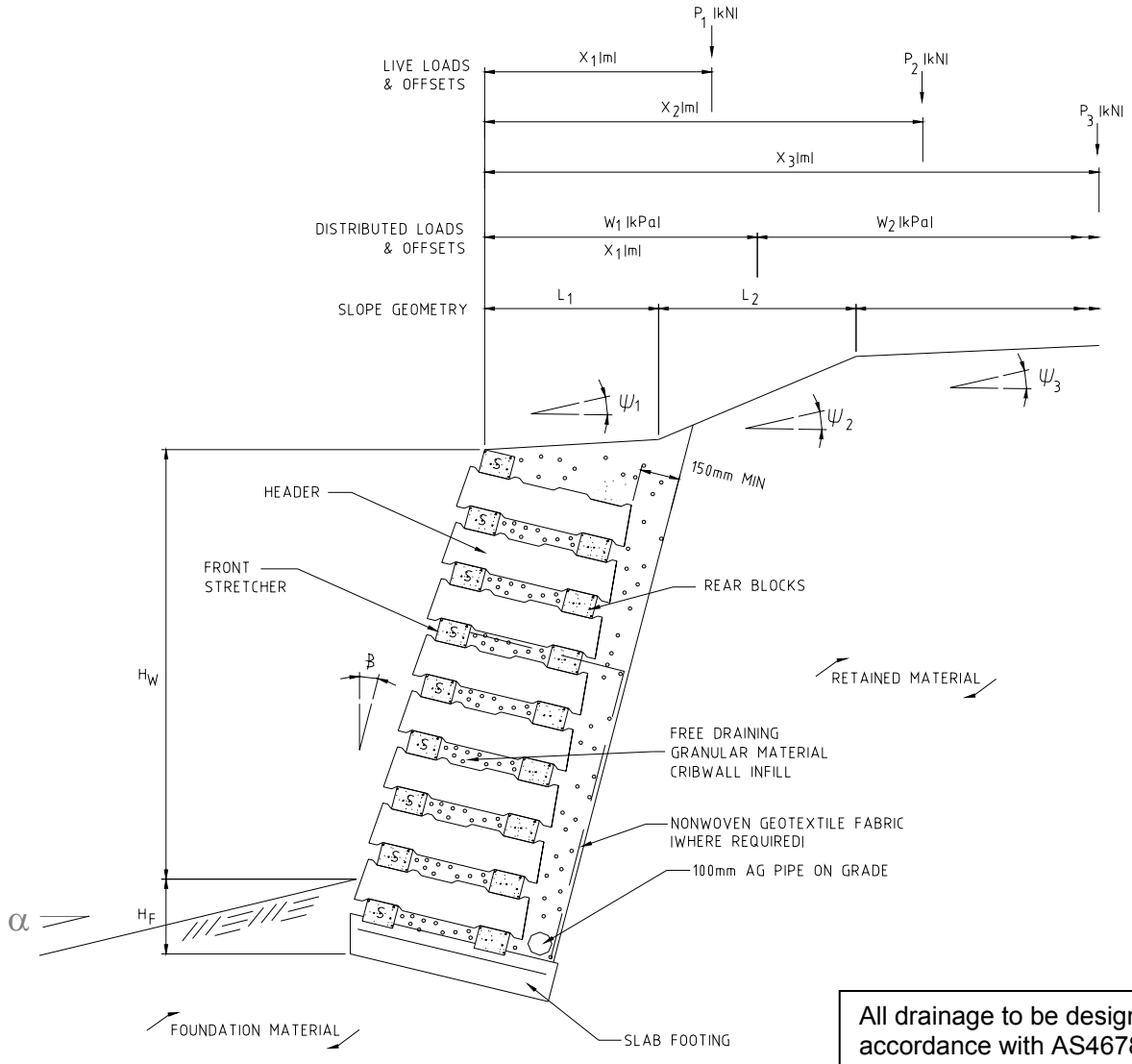
Soil density (γf)		kN/m^3
Effective Internal friction angle ($\phi f'$)		deg
Effective Cohesion (cf')		kPa
Foundation Slope at toe (α)		deg
Allowable bearing capacity		kPa
Is footing in "rock"	Yes	No

Please circle

OTHER NOTES

- *If toe slopes exist below toe of retaining structures then global stability requires assessment. A suitably qualified and experienced geotechnical engineer SHALL be engaged to assess such criteria.*
- *Overland flow shall not be discharged over the retaining walls, unless it is contained in a drop structure.*
- *General guide for wall founding conditions:*
  - *If wall is founded in rock, rock can be excavated using a 20t excavator with a 600mm wide rock tooth breaker*

KEY DIAGRAM



All drainage to be designed in accordance with AS4678 - 2002

HAND SKETCH AREA:

PLEASE INDICATE:

1. existing site profile
2. slope geometry
3. water and groundwater location
4. location of surcharges
5. location of services
6. fill material on site
7. adjacent creeks/waterways