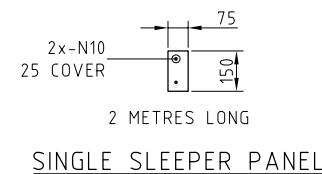
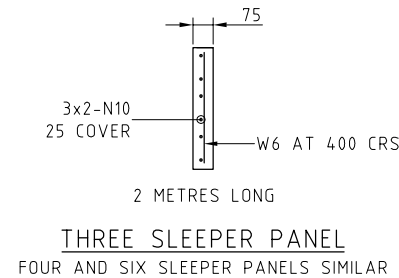
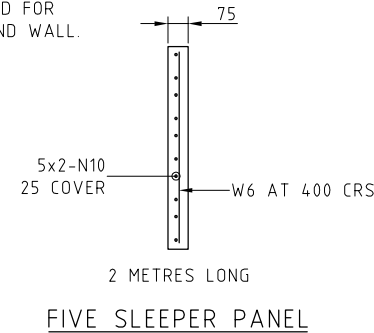


NOTES:

- DESIGN IS BASED UPON:
EARTH-RETAINING STRUCTURES CODE AS 4678-2002
CONCRETE STRUCTURES CODE AS3600-2001
STEEL STRUCTURES CODE AS 4100
BUILDING CODE OF AUSTRALIA
PROTOTYPE TESTING AT THE UNIVERSITY OF QUEENSLAND
- LAND SLIPS (E.G. SLIP CIRCLE FAILURE MECHANISMS) HAVE NOT BEEN CONSIDERED IN THE RETAINING WALL DESIGN. THE DESIGN IS BASED UPON THE ASSUMPTION THAT THE WALL IS FOUNDED ON GROUND NOT SUBJECT TO SLIP. THE DETERMINATION OF THE SITE SUSCEPTIBILITY TO SLIP IS THE RESPONSIBILITY OF THE PROJECT ENGINEER AND THE GEOTECHNICAL CONSULTANT AND IS BEYOND THE SCOPE OF WORK OF CONCRIB AND INERTIA ENGINEERING PTY LTD.
- RETAINING WALL DESIGNED FOR 5kPa IMPOSED LOAD BEHIND WALL.



DESIGN PARAMETERS

REFER DESIGN CERTIFICATION FOR RETAINED AND FOUNDING SOIL DESIGN PARAMETERS, DESIGN SURCHARGE LOADS AND WALL DESIGN GEOMETRY

CONCRETE STANDARD - AS3600
STANDARD DESIGN EXPOSURE CLASSIFICATION
SLEEPERS & POSTS - B1, FOOTINGS - A2

ELEMENT	GRADE	SLUMP	MIN. COVER
SLEEPER	N50	50mm	20mm * **
FOOTING	N25	80mm	75mm

* RIGID FORMWORK & INTENSE COMPACTION
** MINIMUM SPECIFIED COVER 25mm.

REINFORCEMENT STANDARD - AS/NZS 4671
YIELD 500 MPa; DUCTILITY CLASS N

CONCRIB
Maximising Land Values

PROJECT

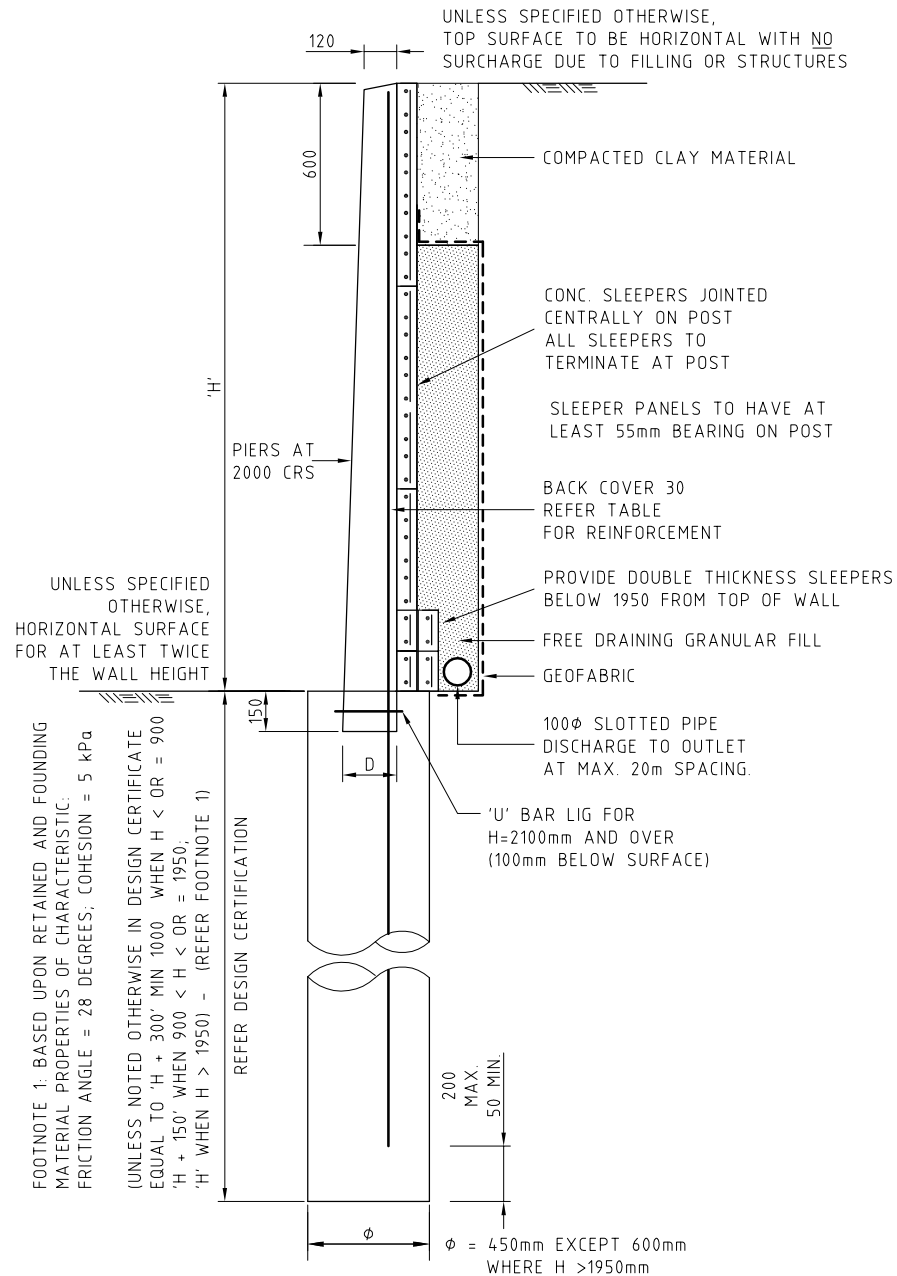
TITLE
**CONCRIB SLEEPER WALL
2006 SYSTEM DETAILS**

DESIGN SCALE
DMK A3 Sheet 1 : 20

DRAWN DATE
D.H. July 2014

DRAWING NUMBER

JOB No SHEET No ISSUE



SECTION - TYPICAL SLEEPER WALL

NOTE: 'U' BAR LIGS TO BE INSTALLED AROUND POSTS IN FOOTING PIER FOR H=2100mm AND OVER.

NOTES:

- DESIGN IS BASED UPON:
EARTH-RETAINING STRUCTURES CODE AS 4678-2002
CONCRETE STRUCTURES CODE AS3600-2001
BUILDING CODE OF AUSTRALIA
PROTOTYPE TESTING AT THE UNIVERSITY OF QUEENSLAND
- LAND SLIPS (E.G. SLIP CIRCLE FAILURE MECHANISMS) HAVE NOT BEEN CONSIDERED IN THE RETAINING WALL DESIGN. THE DESIGN IS BASED UPON THE ASSUMPTION THAT THE WALL IS FOUNDED ON GROUND NOT SUBJECT TO SLIP. THE DETERMINATION OF THE SITE SUSCEPTIBILITY TO SLIP IS THE RESPONSIBILITY OF THE PROJECT ENGINEER AND THE GEOTECHNICAL CONSULTANT AND IS BEYOND THE SCOPE OF WORK OF CONCRIB AND INERTIA ENGINEERING PTY LTD.
- RETAINING WALL DESIGNED FOR 5kPa IMPOSED LOAD BEHIND WALL.

DESIGN PARAMETERS

REFER DESIGN CERTIFICATION FOR RETAINED AND FOUNDING SOIL DESIGN PARAMETERS, DESIGN SURCHARGE LOADS AND WALL DESIGN GEOMETRY

CONCRETE STANDARD - AS3600
STANDARD DESIGN EXPOSURE CLASSIFICATION
SLEEPERS & POSTS - B1, FOOTINGS - A2

ELEMENT	GRADE	SLUMP	MIN. COVER
SLEEPER	N50	50mm	20mm * **
POST	N50	50mm	20mm * **
FOOTING	N25	80mm	75mm

* RIGID FORMWORK & INTENSE COMPACTION
** MINIMUM SPECIFIED COVER 25mm.

REINFORCEMENT STANDARD - AS/NZS 4671
YIELD 500 MPa;
DUCTILITY CLASS N (MAIN BARS)
DUCTILITY CLASS L (CROSS BARS)

RETAINING WALL HEIGHT 'H' (mm)	PIER BASE DEPTH 'D' (mm)	REINFORCING BARS	LIGATURE NO.
600	170	2N12	N/A
750	180	2N12	
900	190	2N16	
1050	200	2N16	
1200	210	2N16	
1350	220	2N16	
1500	230	2N16	1, 3, 5
1650	240	2N20	
1800	250	2N20	
1950	260	2N20	
2100	270	2N20	
2250	280	2N20	
2400	290	2N20	
2550	300	2N20	

CONCRIB
Maximising Land Values

PROJECT

TITLE
**CONCRIB SLEEPER WALL
2006 SYSTEM DETAILS**

DESIGN SCALE
DMK A3 Sheet 1 : 20

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