



REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

THE EASTERN INDONESIA
NATIONAL ROAD IMPROVEMENT
PROJECT
(EINRIP)

Package No.	ESS-04
Link No.	52.020
Package Name	BULUKUMBA - TONDONG
Province	SOUTH SULAWESI

CONSULTANT		
 URS Australia Pty Ltd. In association with: ARRB Group Ltd - Louis Berger Int. Vic Roads - Perenjina Djeja - PT. Dacrea Mitrayasa	DESIGNED BY: (VICTOR TAUFIK) Highway Engineer	REVIEWED BY: (E.W. JAMES) Road Design Team Leader
APPROVED BY: (DAVID FOSTER) EINRIP Team Leader		

TITLE
PROJECT INFORMATION SIGN

Sheet No. :	ESS-04-R-8506
Scale :	NTS
Date :	16/02/2009
FINAL (ISSUED FOR TENDER)	

REVISION RECORD		
Rev	Date	DESCRIPTION

Sign type - aluminium information/guide sign with engineering grade reflective finish
 minimum size of letter on signboard is 50 mm
 dark blue PMS 547 (pantone Colour system)
 AIP logo <http://www.indo.ausid.gov.au/branding/downloadlogo.html>
 AIP font times new roman
 font MS sans serif

Sign type - aluminium information/guide sign with engineering grade reflective finish
 Dark blue PMS 547 (Pantone colour system)
 Dark Grey PMS 410
 AIP logo <http://www.indo.ausid.gov.au/branding/downloadlogo.html>
 AIP font height - 70 mm Times new roman
 other font height = 60 mm MS Sans serif or similar

Republik Indonesia
Departemen Pekerjaan Umum
Direktorat Jenderal Bina Marga

Bagian Proyek : SNVT Pembangunan Jalan & Jembatan Metropolitan Denpasar
 Proyek : Eastern Indonesia Road Improvement Project (EINRIP)
 Nama Paket : Bulukumba - Tondong
 No. Paket : ESS-04
 Pekerjaan : Pembangunan Jalan 20.7 Km
 No. Kontrak :
 Tanggal Kontrak :
 Nilai Kontrak : Rp
 Sumber Dana : EINRIP Loan L002 from Government of Australia
 Waktu Pelaksanaan : hari
 Tanggal Mulai :
 Tanggal Selesai :
 Kontak alamat : Project Management Unit (PMU) - tel: 021-7394631
 email : pmu.einrip@yahoo.com
 web site : <http://www.pmu.einrip-binamarga.com/apl/index.php>

Australia Indonesia Partnership
Kemitraan Australia Indonesia

Kontraktor : logo
 Konsultan Supervisi : logo
 Konsultan Perencana: PT. URS, Pty Ltd and Associates URS Australia Pty Ltd

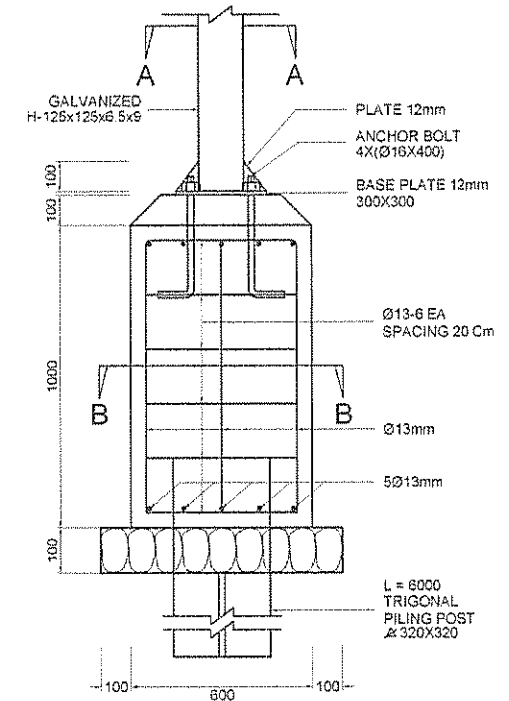
Australia Indonesia Partnership
Kemitraan Australia Indonesia

Eastern Indonesia National Roads
Improvement Project (EINRIP)

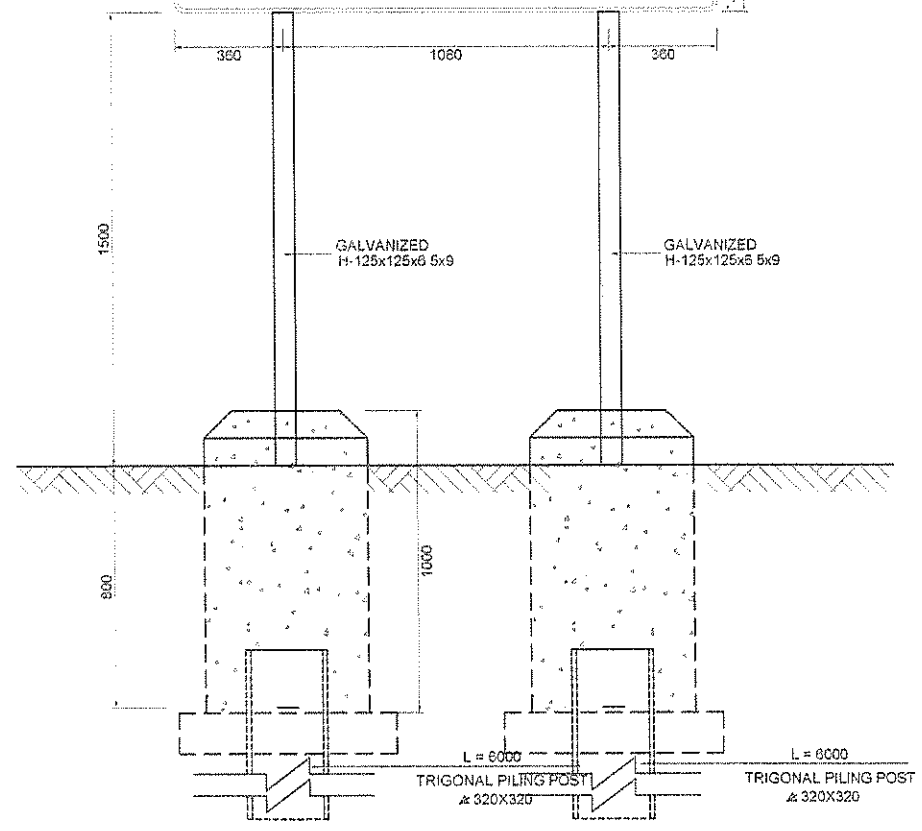
Bulukumba - Tondong Road
(20.7 km improvement & widening)

A joint Indonesia and Australian Government initiative
managed by Directorate General of Highways

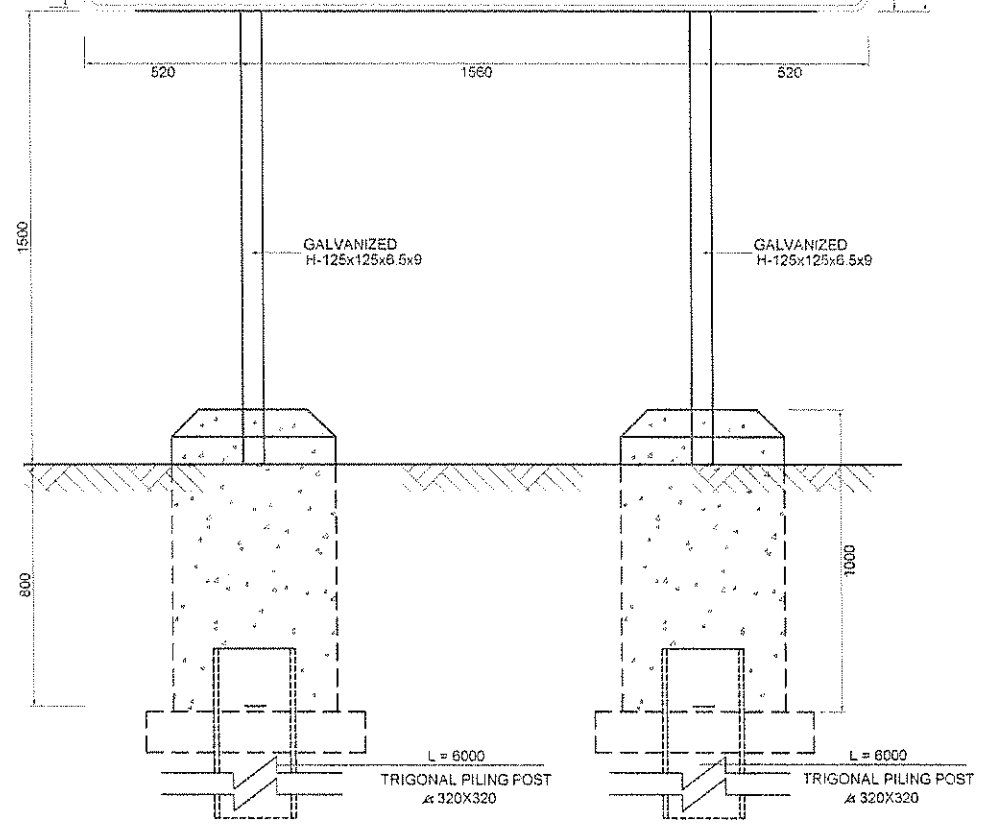
Inisiatif bersama Pemerintah Indonesia dan Australia
dikelola oleh Bina Marga



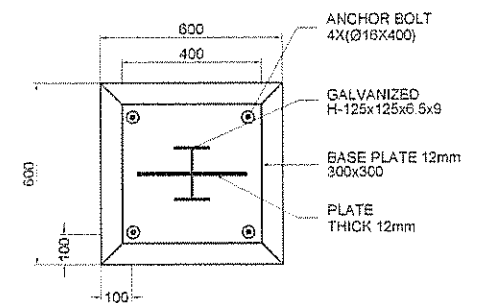
DETAIL FOUNDATION



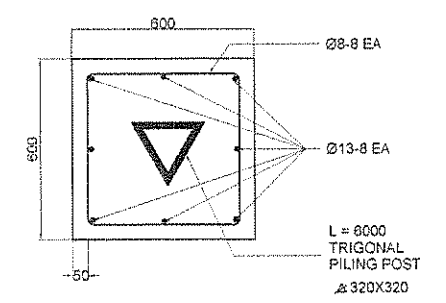
FRONT VIEW



FRONT VIEW




SECTION A-A



SECTION B-B

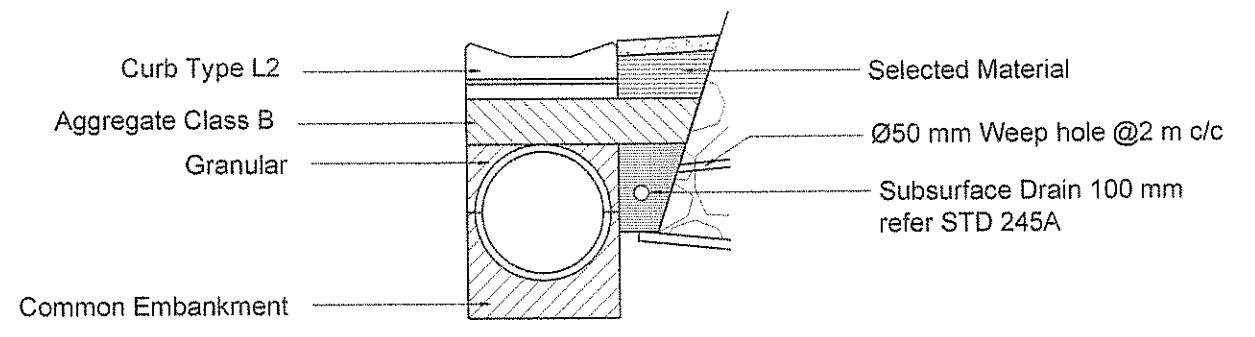
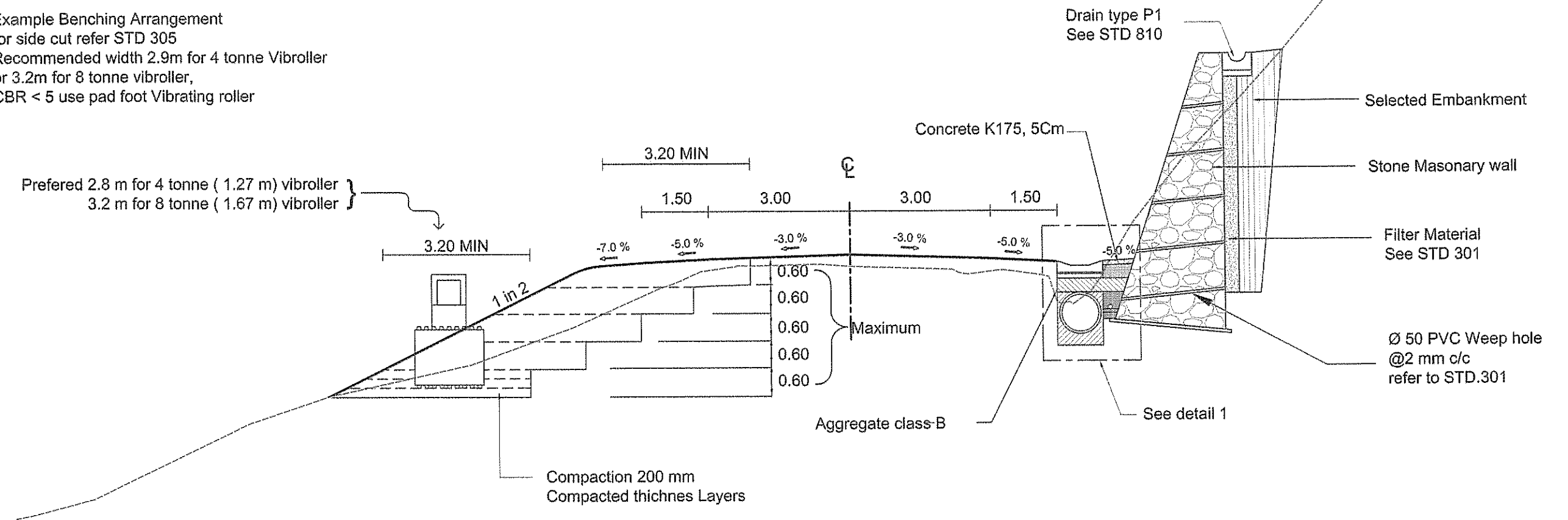
DRAWN BY : JCHROMA

	REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	THE EASTERN INDONESIA NATIONAL ROAD IMPROVEMENT PROJECT (EINRIP)	Package No.	ESS-04	CONSULTANT			TITLE	Sheet No. : ESS-04-R-8502	REVISION RECORD		
			Link No.	54.020	URS Australia Pty Ltd. In association with: ARRB Group Ltd - Louis Berger Int - Vic Roads - Perentjana Djaja - PT. Dacrea Mitrayasa	DESIGNED BY:	REVIEWED BY:	APPROVED BY:	Scale : NTS	Rev	Date	DESCRIPTION
			Package Name	BULUKUMBA - TONDONG		(VICTOR TAUFIK) Highway Engineer	(E.M. JAMES) Road Design Team Leader	(DAVID FOSTER) EINRIP Team Leader	Date : 16/02/2009			
			Province	SOUTH SULAWESI					FINAL (ISSUED FOR TENDER)			

COMPACTION OF SIDE CUT AREAS WIDENING ALTERNATIVE 1

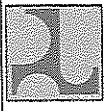
Example Benching Arrangement
for side cut refer STD 305
Recommended width 2.9m for 4 tonne Vibroller
or 3.2m for 8 tonne vibroller,
CBR < 5 use pad foot Vibrating roller

Preferred 2.8 m for 4 tonne (1.27 m) vibroller
3.2 m for 8 tonne (1.67 m) vibroller



DETAIL-1

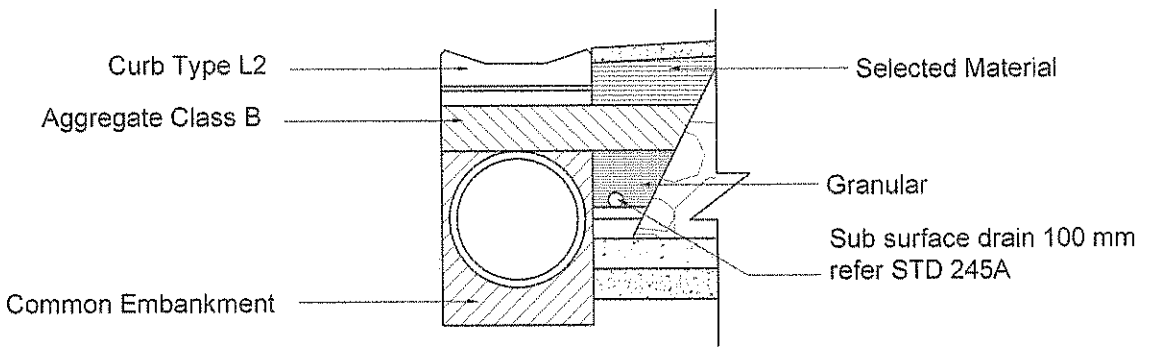
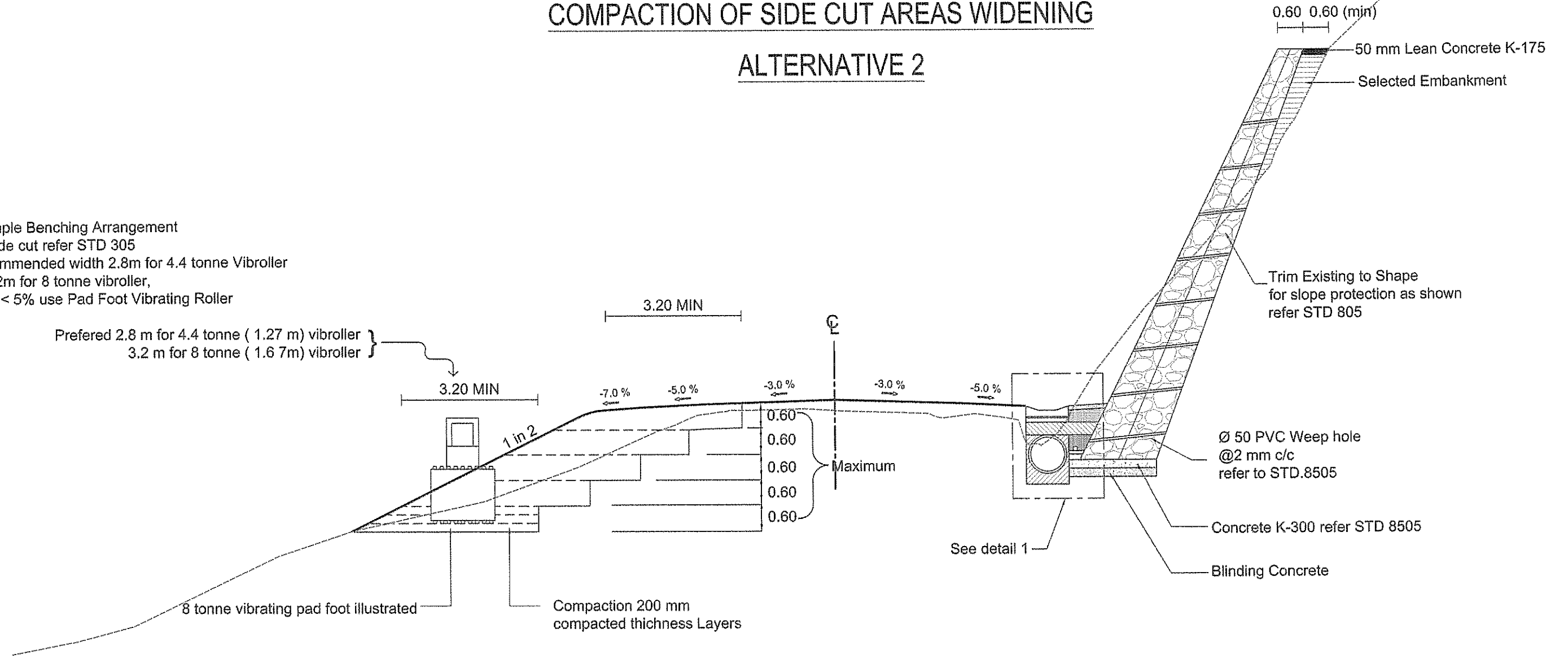
DRAWN BY : ICHROM

 REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	THE EASTERN INDONESIA NATIONAL ROAD IMPROVEMENT PROJECT (EINRIP)	Package No.	ESS-04	CONSULTANT			TITLE	Sheet No. : ESS-04-R-8503	REVISION RECORD					
		Link No.	54.020	URS Australia Pty Ltd. In association with: ARRB Group Ltd - Louis Berger Int- Vic Roads - Perenjara Ojasa - PT. Dacrea Mitrayasa	DESIGNED BY:	REVIEWED BY:	APPROVED BY:	COMPACTION OF SIDE CUT AREAS WIDENING ALTERNATIVE 2	Scale :	NTS	Rev	Date		
		Package Name	BULUKUMBA - TONDONG		(VICTOR TAUFIK) Highway Engineer	(E.M. JAMES) Road Design Team Leader	(DAVID FOSTER) EINRIP Team Leader		Date :	16/02/2009				
		Province	SOUTH SULAWESI											
							FINAL (ISSUED FOR TENDER)							

COMPACTION OF SIDE CUT AREAS WIDENING ALTERNATIVE 2

Example Benching Arrangement
for side cut refer STD 305
Recommended width 2.8m for 4.4 tonne Vibroller
or 3.2m for 8 tonne vibroller,
CBR < 5% use Pad Foot Vibrating Roller

Preferred 2.8 m for 4.4 tonne (1.27 m) vibroller
3.2 m for 8 tonne (1.6 7m) vibroller



DETAIL-1

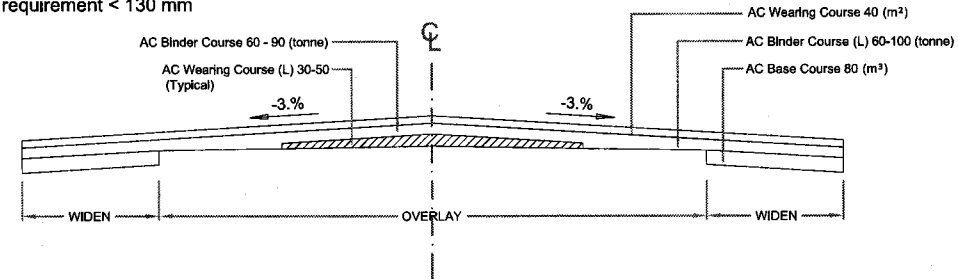
DRAWN BY : ICHROM

REVISION RECORD	
Rev	Date

**LEVELLING LAYER EXAMPLES
FOR OVERLAY SHAPE CORRECTION**

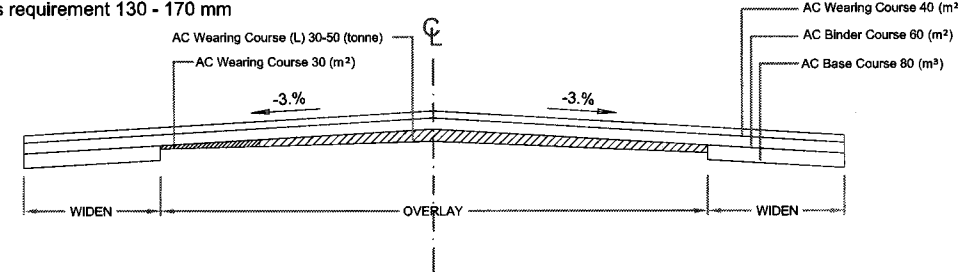
**EXAMPLE 1 AC BINDER AS COMBINED
STRUCTURAL & LEVELLING LAYER**

AC - Binder Course (L) 60 - 100 (m³)
Use when structural thickness requirement < 130 mm

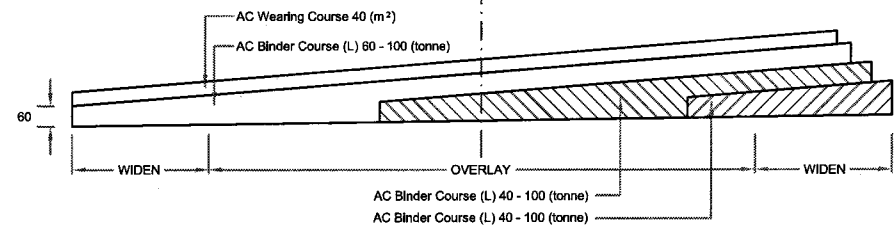


EXAMPLE 2 AC BINDER AS STRUCTURAL ONLY

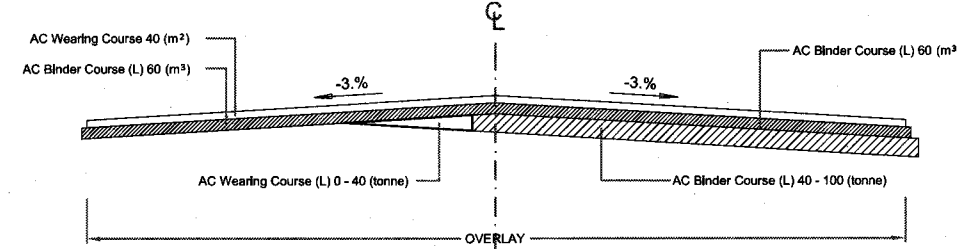
AC - Wearing Course (L) 30 - 50 (m³)
Use when structural thickness requirement 130 - 170 mm



EXAMPLE 3 SUPERELEVATION DEVELOPMENT

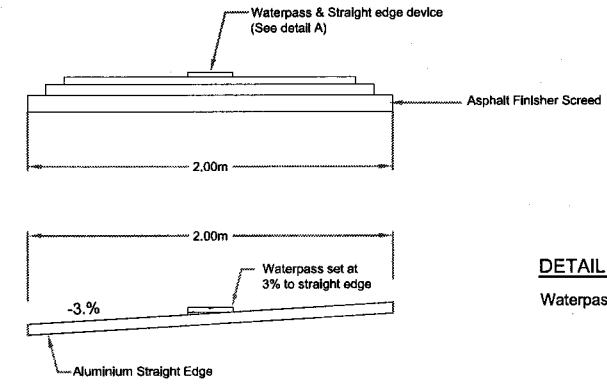


EXAMPLE 4 OFFSET CROWN DEVELOPMENT

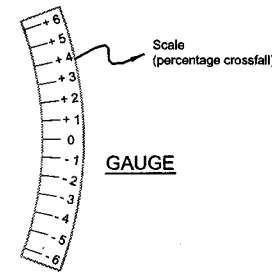


**GENERAL ARRANGEMENT OF WATERPASS AND
STRAIGHT EDGE TOOLS TO ASSIST SETTING OUT
OF OVERLAY WORKS**

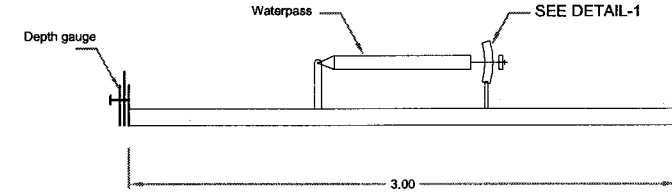
thickness (mm)
LEGEND: (L) Levelling
AC Wearing Course 40 (m²)
Unit Rate



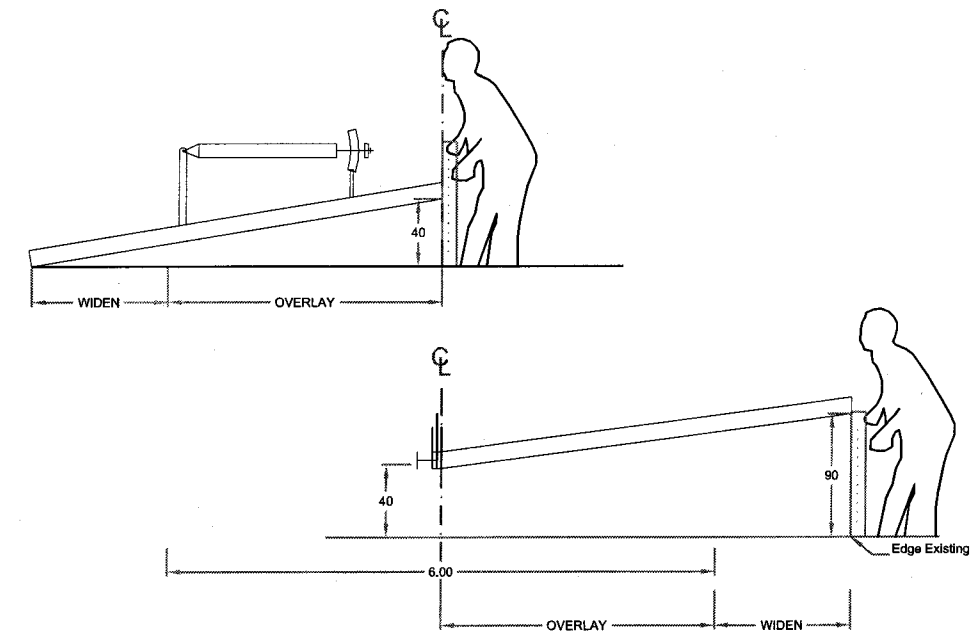
DETAIL A
Waterpass for finisher screed



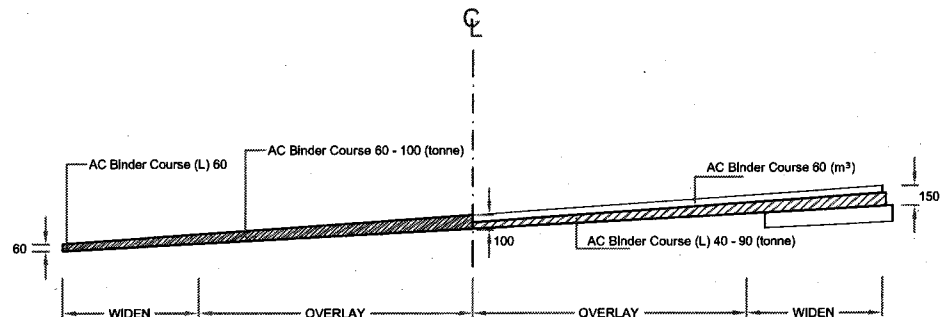
DETAIL -1




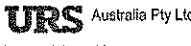



DETAIL B
Waterpass for Superelevation Set Out



EXAMPLE

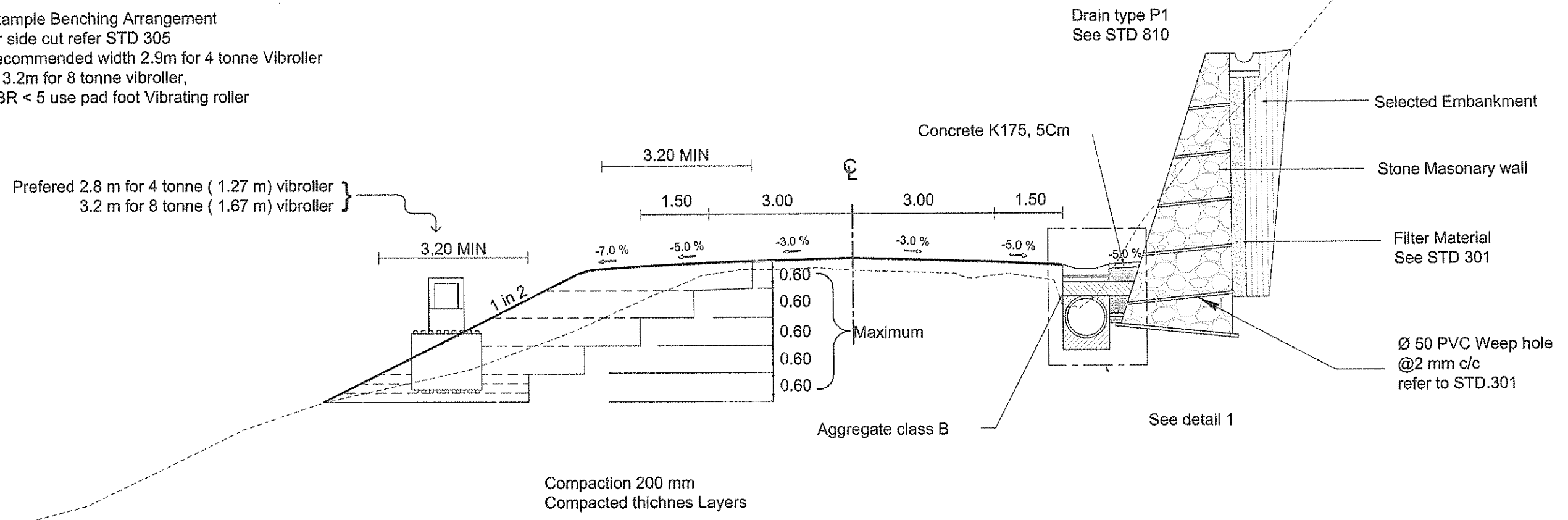


DRAWN BY: ICHROM

 REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HIGHWAYS	THE EASTERN INDONESIA NATIONAL ROAD IMPROVEMENT PROJECT (EINRIP)	Package No.	ESS-05	CONSULTANT			TITLE	Sheet No. : ESS-05-R-8502	REVISION RECORD		
		Link No.	54.020	 URS Australia Pty Ltd. In association with: ARRB Group Ltd - Louis Berger Int - Vic Roads - Perenjara Daje - PT. Dacrea Mitrayasa	DESIGNED BY	REVIEWED BY	APPROVED BY	Scale : NTS	Rev	Date	DESCRIPTION
		Package Name	BULUKUMBA - TONDONG		 (FREDY) Highway Engineer	 (E.M. JAMES) Road Design Team Leader	 (DAVID FOSTER) EINRIP Team Leader	Date : 16/02/2009			
		Province	SOUTH SULAWESI					COMPACTON OF SIDE CUT AREAS WIDENING ALTERNATIVE 1			FINAL (ISSUED FOR TENDER)

COMPACTON OF SIDE CUT AREAS WIDENING ALTERNATIVE 1

Example Benching Arrangement
for side cut refer STD 305
Recommended width 2.9m for 4 tonne Vibroller
or 3.2m for 8 tonne vibroller,
CBR < 5 use pad foot Vibrating roller



DETAIL-1

Package No.	ESS-05
Link No.	54.020
Package Name	BULUKUMBA - TONDONG
Province	SOUTH SULAWESI

CONSULTANT		
DESIGNED BY	REVIEWED BY	APPROVED BY
<i>Fredy</i> FREDY Highway Engineer	<i>E.M. JAMES</i> E.M. JAMES Road Design Team Leader	<i>DAVID FOSTER</i> DAVID FOSTER EINRIP Team Leader
URS Australia Pty Ltd. In association with ARRB Group Ltd - Louis Berger Int - Vic Roads - Perentjona Djaja - PT. Dacrea Mitrayasa		

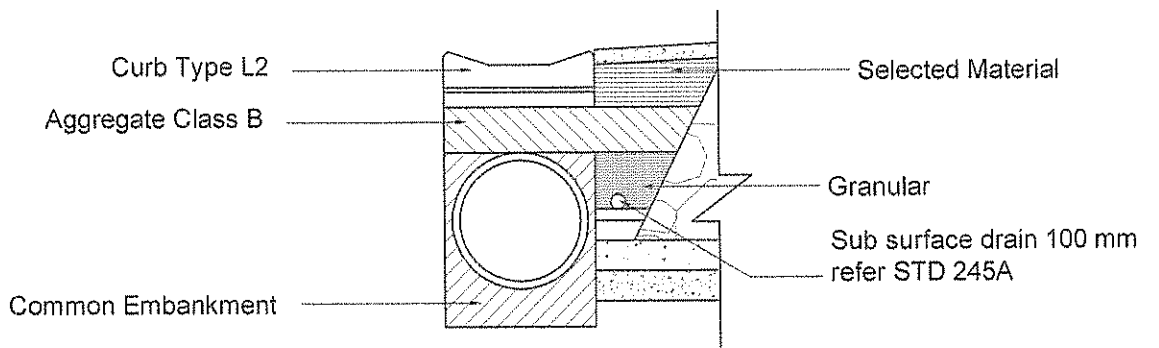
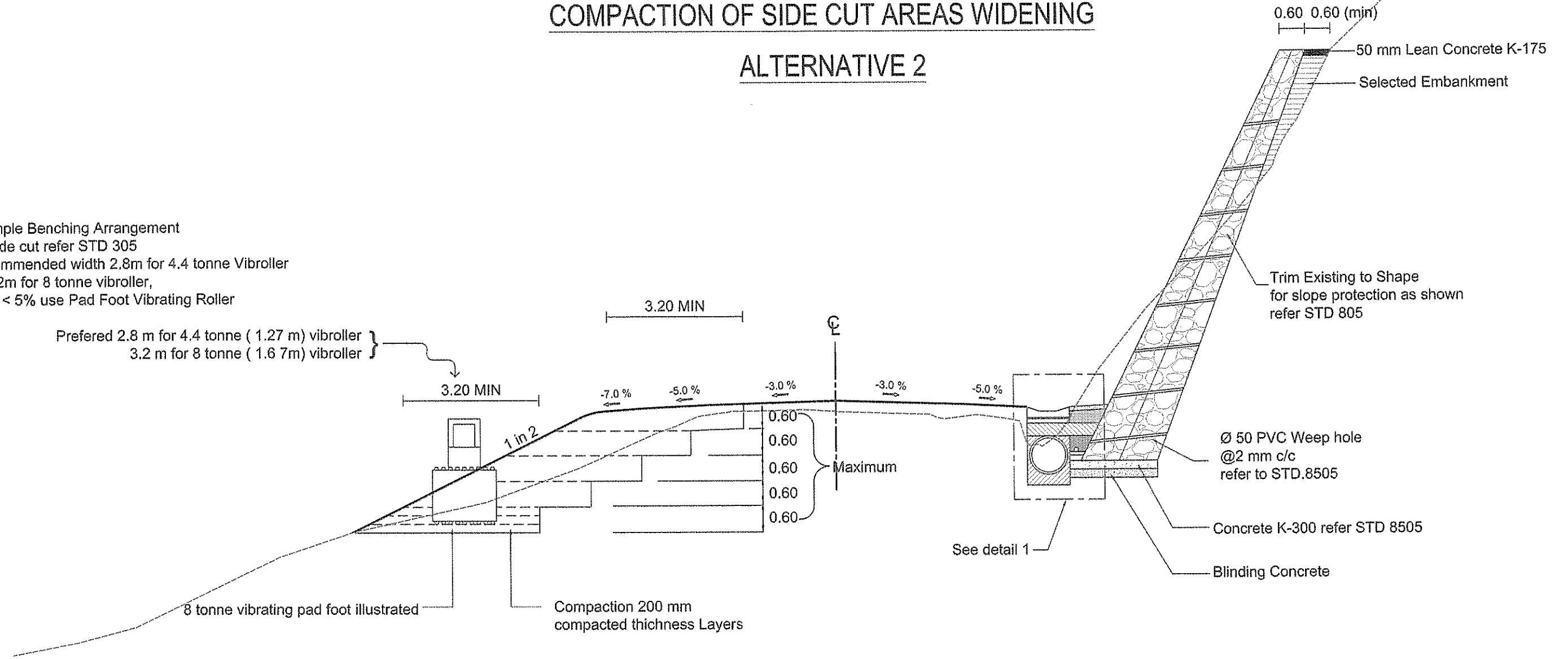
TITLE	COMPACTON OF SIDE CUT AREAS WIDENING ALTERNATIVE 2
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Sheet No.	ESS-05-R-8503	
Scale	NTS	
Date	16/02/2009	
FINAL (ISSUED FOR TENDER)		
REVISION RECORD		
Rev	Date	DESCRIPTION

COMPACTON OF SIDE CUT AREAS WIDENING ALTERNATIVE 2

Example Benching Arrangement
for side cut refer STD 305
Recommended width 2.8m for 4.4 tonne Vibroller
or 3.2m for 8 tonne vibroller,
CBR < 5% use Pad Foot Vibrating Roller

Prefered 2.8 m for 4.4 tonne (1.27 m) vibroller
3.2 m for 8 tonne (1.6 7m) vibroller }



DETAIL-1

DRAWN BY: JCHR03