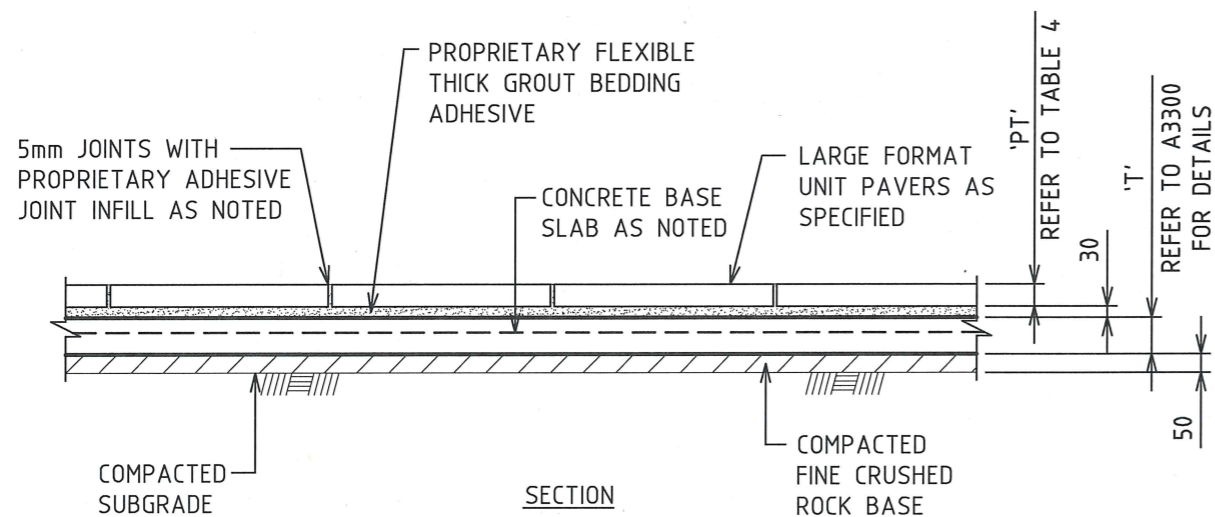


PLAN

HARDSTAND - LARGE FORMAT UNIT PAVING ON A RIGID BASE SYSTEM (NON-INFILTRATION)

SCALE 1:100



SECTION

TYPICAL HARDSTAND PROFILE

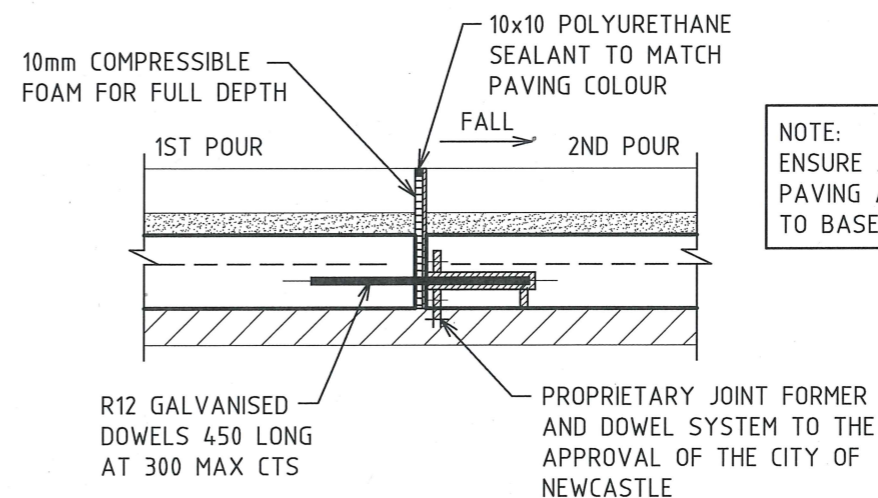
SCALE 1:20

NOTES

1. ALL WORKMANSHIP AND MATERIAL SHALL COMPLY WITH THE CURRENT AUSTRALIAN STANDARDS IN PARTICULAR AS3600 AND AS3727 AS WELL AS ANY REQUIREMENTS OF THE RELEVANT AUTHORITIES.
2. PAVEMENT IS TO BE FOUNDED ON FIRM NATURAL CUT GROUND OR COMPACTED FILL. ANY SOFT AREAS ARE TO BE REMOVED AND REPLACED WITH COMPACTED FILL TO MEET A MINIMUM OF 100KPa ALLOWABLE BEARING PRESSURE.
3. ANY FILL MUST BE PLACED IN 150mm THICK MAXIMUM LAYERS AND COMPACTED TO A RELATIVE DRY DENSITY OF 98% TO AS1289.5.1.1.
4. THE BASE COURSE IS TO BE GRANULAR GRADED MATERIAL, SUCH AS FINE CRUSHED ROCK.
5. HARDSTANDS GENERALLY TO BE DESIGNED TO HAVE A 2.5% CROSS FALL. POORLY DRAINED SITES MAY REQUIRE SUB SURFACE DRAINAGE TO PROTECT THE PAVEMENT.
6. THE FINISHED LEVEL OF ANY PAVEMENT ABUTTING A WALL MUST BE BELOW THE DAMP PROOF COURSE AND MUST NOT OBSCURE ANY WEEP HOLES OR DRAINAGE OPENINGS.
7. DOWELS ARE TO BE ACCURATELY ALIGNED PARALLEL TO THE PAVEMENT SURFACE AND THE PAVEMENT CENTRE LINE. ALL DOWELS AND JOINT FORMERS ARE TO BE GALVANISED.
8. POLYURETHANE / SILICONE SEALANT TO MATCH PAVING COLOUR TO TOP 10mm JOINT.
9. CONCRETE THICKNESS, GRADE, REINFORCEMENT AND COVER FOR THE CONCRETE BASE IS AS DETAILED ON STANDARD DRAWING A3300 TABLE 1.
10. TO ASSIST IN THE CURING AND DURABILITY OF THE CONCRETE BASE SLAB:
  - THE SUB BASE SHOULD BE THOROUGHLY MOISTENED PRIOR TO PLACING CONCRETE (RESULTING IN REDUCED LOSS OF MOISTURE);
  - CURING SHOULD INITIATED BY APPLYING A CURING COMPOUND AT THE RATE OF 0.3 L/MIN<sup>2</sup>.
  - WATER SHOULD NOT BE ADDED TO THE AS-DELIVERED MIX
11. LARGE FORMAT UNIT PAVING TO BE IN ACCORDANCE WITH TABLE 4 MINIMUM REQUIREMENTS.
12. PREPARATION AND INSTALLATION OF BEDDING AND PAVERS IS TO BE IN STRICT ACCORDANCE WITH THE PAVER MANUFACTURERS SPECIFICATIONS.
13. TOLERANCE 3mm MAX CHANGE IN HEIGHT EACH SIDE OF JOINT.
14. HARDSTAND PAVEMENT IS DESIGNED FOR LIGHT DUTY TRAFFIC LOADING (OPERATION OF VEHICLES NOT EXCEEDING 3 TONNES) OR MEDIUM DUTY TRAFFIC LOADING (OPERATION OF VEHICLES NOT EXCEEDING 10 TONNES).

TYPICAL APPLICATION

1. LARGE FORMAT STONE PAVING AS SPECIFIED IN THE CITY CENTRE TECHNICAL MANUAL



TYPICAL EXPANSION JOINTS - EJ1

SCALE 1:10

No.	AMENDMENT DETAILS	DATE	INITIALS
2	GENERAL REVISION	18.08.15	T.A.
1	CONSTRUCTION	18.12.14	T.A.
0	PRELIMINARY	18.11.14	T.A.

SCALE	AS SHOWN
COORDINATE SYSTEM:	HEIGHT DATUM: AHD

**LIVEABLE CITY**  
**INFRASTRUCTURE MANAGEMENT SERVICES**

APPROVED: *[Signature]*  
 SIGNED: *[Signature]*  
 INFRASTRUCTURE MANAGEMENT SERVICES MANAGER  
 DATE: 2/18/15

REVIEWED: J.C.

**THE CITY OF NEWCASTLE**


**HARDSTAND**  
**LARGE FORMAT UNIT PAVING ON A RIGID BASE SYSTEM (NON-INFILTRATION)**

NCC PLAN No.	A3306
AMENDMENT No.	

SHEET No.	1
OF	2
SHEETS	

TABLE 4 - LARGE FORMAT UNIT PAVING (NON-INFILTRATION) - MINIMUM REQUIREMENTS

PAVEMENT APPLICATION	MATERIAL	NOMINAL SIZE (mm)	'PT' PAVEMENT THICKNESS (mm)	STRENGTH		MAXIMUM ABRASION RESISTANCE FOR PEDESTRIAN VOLUME AS4456.9			SLIP RESISTANCE CLASS AS4586
				CONCRETE CHARACTERISTIC BREAKING LOAD (KN) AS4456.5	STONE FLEXURAL STRENGTH (MPa)	LOW	MEDIUM	HIGH	
PEDESTRIAN AND LIGHT TRAFFIC	CONCRETE	300x300 400x400 450x450	50	7	-	7	5.5	3.5	W
	STONE	450x450 600x450 900x450 600x300 300x300	40	-	11	7	5.5	3.5	W
PEDESTRIAN AND MEDIUM TRAFFIC	CONCRETE	300x300 400x400 450x450	60 65 70	13.8 15.5 18.8	-	7	5.5	3.5	W
	STONE	450x450 600x450 900x450 600x300 300x300	60	-	14	7	5.5	3.5	W

<table border="1"> <tr> <th>No.</th> <th>AMENDMENT DETAILS</th> <th>DATE</th> <th>INITIALS</th> </tr> <tr> <td>2</td> <td>GENERAL REVISION</td> <td>18.08.15</td> <td>T.A.</td> </tr> <tr> <td>1</td> <td>CONSTRUCTION</td> <td>18.12.14</td> <td>T.A.</td> </tr> <tr> <td>0</td> <td>PRELIMINARY</td> <td>18.11.14</td> <td>T.A.</td> </tr> </table>				No.	AMENDMENT DETAILS	DATE	INITIALS	2	GENERAL REVISION	18.08.15	T.A.	1	CONSTRUCTION	18.12.14	T.A.	0	PRELIMINARY	18.11.14	T.A.	SCALE AS SHOWN	 LIVEABLE CITY INFRASTRUCTURE MANAGEMENT SERVICES	APPROVED: <i>[Signature]</i> SIGNED:..... INFRASTRUCTURE MANAGEMENT SERVICES MANAGER DATE:..... 21/8/15	THE CITY OF NEWCASTLE HARDSTAND LARGE FORMAT UNIT PAVING ON A RIGID BASE SYSTEM (NON-INFILTRATION)	NCC PLAN No. A3306 AMENDMENT No.	SHEET No. 2 OF 2 SHEETS
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A3 ORIGINAL THIS SHEET WAS PREPARED IN COLOUR AND WILL BE INCOMPLETE IF COPIED		COORDINATE SYSTEM:	HEIGHT DATUM: AHD	REVIEWED: J.C.																					