

Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW) Principal's Authorised Person: Mark Jajou	Job No. 1680	Area No.	1
		Activity Type	Kerb & Gutter

INSPECTION AND TEST PLAN	KERBS AND GUTTERS – R15 Ed 4 / Rev 3 (Jul-2019)	Checklist No.	1680-CHK-R15-001
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Item	Activity	Reference		Acceptance Criteria	Frequency	Acceptance By			Record / Comments
		Spec	Method			DG	TfNSW	Other	
	In work sequence	OHSR, Environment, Quality aspect Specification, standard or			Inspection/testing frequency	See key on final page.			Identify relevant records Add notes to assist.

1. PRELIMINARIES

1.1	SWMS, EWMS and EPL	G22 CI 3.4 G36 G38	-Ensure SWMS & EWMS are in place, understood and signed off by all personnel involved in completing the task -Ensure EPL criteria are conformed with	Prior to commencement	PE	✓		Refer to checklist 1680-CHK-R15-001
1.2	Erosion and Sedimentation Control Plan	G38 CI 2.1.2, 3.1.1	Ensure ERSED plan has been developed and communicated to site team.	Prior to commencement	ENM	✓		Refer to checklist 1680-CHK-R15-001
1.3	Traffic Control	G10 CI 2	-Traffic control is in place. -Relevant TCP and VMP are approved	Prior to commencement	TM	✓		Refer to checklist 1680-CHK-R15-001
1.4	Construction Lot Identification, Traceability and Frequency of Testing	Q6, CI 7.5.3 Annexure L1 Annexure L3	-Set the bounds for each construction lot as per Q6 requirements -Lot Number assigned -Lot size as per specification -This lot number as an identifier on all quality records -Lot map is prepared for traceability -Frequency of testing as per Q6/L3 and specification requirements	Prior to commencement	PQR	✓		Refer to checklist 1680-CHK-R15-001

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2. MATERIALS

2.1	Materials	R15 CI 2	Concrete properties and delivery, placing, compaction, finishing, curing and protection in accordance with RMS R53.	Per Lot	ENG SS	✓		Refer to checklist 1680-CHK-R15-001
2.2	Production of Concrete Mix HOLD POINT	R53, CI 2.4.3	Submit any one of the following: (a) The documents specified in Clause 2.4.3 items (a) and (b); or (b) Details of mix(es) selected from the RMS Register of Concrete Mixes, together with a statement certifying that the mix conforms to this Specification and is suitable for its intended use	At least 5 days prior to production	ENG	HP		HP Release / Refer to checklist 1680-CHK-R15-001
2.3	Curing Compound	R53, CI 2.6	The curing compound must be: (a) a hydrocarbon resin compound complying with AS 3799 Class B, Type 1-D; or (b) a wax emulsion complying with AS 3799 Class A, Type 1-D.	Per Lot	ENG	✓		CoC / Refer to checklist 1680-CHK-R15-001

3. CONSTRUCTION

3.1	Construction	R15 CI 2	Do not undercut the batters of cuttings. Construct kerbs and gutters in accordance with AS 2876 modified as shown in Table R15.1. Provide a steel float finish to gutter inverts and faces of kerbs (unless otherwise in Drawings).	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
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3.2	Profiles and Dimensions	R15 CI 2		As nominated on Drawings.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.3	Preparation of Supporting Layers	R15 CI 2		Compact subgrade, subbase and base layers supporting kerb and gutter to standard specified for the adjacent pavement	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.4	Tolerance	R15 CI 2		Gutter and adjacent pavement gutter lip +0/-10 mm to adjoining pavement surface.	Every 10 m	SU	✓		Survey Report / Refer to checklist 1680-CHK-R15-001
3.5	Joints	R15 CI 2		Expansion: provide at all points where kerbs and gutters abut structures. Provide preformed joint filler complying with RMS 3204 within joint. Isolation: provide between pit and rigid pavement	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.6	Kerb & Gutter with Flexible Pavement	R15 CI 3		Constructed in fixed forms or by extrusion or slip forming.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001

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3.7	Kerb & Gutter with Rigid Pavement Constructed Adjacent to Concrete Base	R15 CI 4		Kerb & gutter alongside and tied to base placed by fixed forms or slip forming. Longitudinal joints continuous over full length without steps or offsets. Must not deviate from a 3m straight-edge by > 20mm. Joint corrugated and tied as on Drawings and as specified for the base. Kerb & gutter alongside but not tied to the base constructed in fixed forms, extrusion or slip forming. Seal longitudinal joints as on Drawings. Provide kerbs placed on top of concrete base with ties as shown on Drawings.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.8	Kerb & Gutter with Rigid Pavement Placed After Concrete Base	R15 CI 4		Complete base joint sealing prior to kerb & gutter construction. For kerb & gutter alongside base, extend sealant down vertical face of transverse base joints and any underlying crack > 1mm wide.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.9	Kerb & Gutter with Rigid Pavement Constructed Before Concrete Base	R15 CI 4		For kerb/gutter constructed before base and kerb and gutter lip is to be level with upper base surface: radius of lip adjacent to the base < 5mm, unless otherwise on Drawings.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.10	Joints	R15 CI 4		Untied joints in base must continue across kerb & gutter in same type and on same alignment. Tied joints need not continue into kerb. Seal joints with sealant used for base joints.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001

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3.11	Kerb Constructed on Top of Concrete Base	R15 CI 4		Align each joint in kerb with underlying base joint.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.12	Kerb & Gutter with Rigid Pavement Placed Alongside Base Joints	R15 CI 4		Where kerb and gutter is placed alongside the base joints in the kerb and gutter must intersect at the common longitudinal joint ($\pm 15\text{mm}$). For kerb and gutter placed integrally with the base, align joints with those in base. Otherwise, align joints at an angle of $90^\circ \pm 5^\circ$ to line of kerb.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001
3.13	Removal of Kerb & Gutter	R15 CI 5		Kerbs, gutters and vehicular crossings removed and excavations backfilled as per G40 Clause 2.5. Material from removed kerb & gutter will become Daracon property and must be removed and disposed off-site in accordance with the Waste Management Sub-Plan RMS G36	Per Lot	ENG SS	✓		Refer to checklist 1680-CHK-R15-001
3.14	No Fines Concrete Under Kerb & Gutter	R15 CI 6		Place no fines concrete under kerb and gutter in accordance with RMS 3222 & geotextile comply with RMS R63 Cure no fines concrete for 7 days with polyethylene sheeting $\geq 0.125\text{mm}$ thick or until covered by kerb and gutter. Place kerb & gutter after 5 days of placing concrete or until no fines concrete has sufficient strength. Surface voids to remain open, do not slurry surface.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R15-001

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3.15	THSC "150mm Kerb & Gutter"	R15 CI 7	Where shown on the Drawings, construct kerb & gutter in accordance with the Hills Shire Council specification SD14.	Per Lot	ENG SS	✓			Refer to checklist 1680-CHK-R15-001
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4. CONFORMANCE

4.1	Identification and Control of Non-conforming Products or Services	Q6 CI 8.3	NCR to be opened & closed prior to closing of construction Lot	After work completion	PQR	✓			Non-Conformance Report
4.2	Verification that Rectified Work Conforms HOLD POINT	Q6 CI 8.3	Verification that rectified works conform to accepted rectification method and specifications within the NCR	Prior to covering up the works	PQR	HP			NCR # Refer to checklist 1680-CHK-R015-001
4.3	Final Verification of Construction Lot Records	Q6 CI 8.2.4.3	To confirm that all inspections and tests have been carried out to completely verify conformity.	Prior to closing out each lot	PQR	✓			Refer to checklist 1680-CHK-R15-001

KEY	CoC	Certificate of Conformance
	HP	Hold point
	IR	Identified Record
	S	Surveillance
	T	Test
	WP	Witness point

ENG	Engineer Responsible
ENM	Environmental Manager
PE	Project Engineer
PQR	Project Quality Representative
SS	Site Supervisor
SA	Site Administrator
SU	Surveyor
TM	Traffic Manager

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Prepared by: Emma Cowdery	Authorised for Use: Andrew Rigby	Date: 27/09/2021
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