

	<b>INSPECTION &amp; TEST PLAN</b>		ITP No.: WSP-088-WPA-ITP-XQC-0124
	<b>Construction Process:</b>	Kerb and Channel	Rev 0

**Package Name:** Webb Street NWA

**Work Lot:**

## LEGEND

### Verification Activity

<b>H</b>	Hold Point	Work shall not proceed past the Hold Point until released by the organisation imposing the Hold Point.
<b>W</b>	Witness Point	An inspection point that may be witnessed by the organisation imposing the Witness Point.
<b>I</b>	Inspection	A formal inspection activity to be undertaken and recorded.
<b>S</b>	Surveillance	An activity that is subject to ongoing monitoring.
<b>R</b>	Review	Review of text reports / records or other evidence of compliance.

### Responsible Inspectorate (RI)

WPA	Western Program Alliance
MTM	Metro Trains Melbourne
V/LINE	V/Line
S/C	Subcontractor
PM	Project Manager
CM	Construction Manager
SPE	Senior Project Engineer
SUP	Supervisor
SUR	Surveyor
PE	Project Engineer
O/S	Other Stakeholder: _____
SE	Site Engineer
QMR	Quality Management Rep.
AGDR	Alliance Geotechnical Design Rep

## REFERENCE DOCUMENTS

### Development:

WSP-DPK-088-00-CRG-3700-0 – Roads and Pavements

VicRoads SD2001, SD2103 & SD2102

VicRoads Specification 703- [General Concrete Paving](#)

### Implementation:

WSP-088-WPA-CMS-XCN-0051 CEP - Carparks

3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist

## APPROVAL / REVISION

Rev	Date	Details	Author	Reviewed	Approved
0	05/02/2024	Issued for Construction	ME	ZH, SS	BD

**Zeeshan Haider**

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Stage 1: Approved 22/1/24 03:57 PM

Type: Reviewer

No Comments Provided

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Stage 1: Approved 31/1/24 02:25 PM

Type: Reviewer

No Comments Provided

**Brenton Davey**

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Construction Manager

Stage 2: Approved 5/2/24 12:29 PM

Type: Approver

No Comments Provided

 	<b>INSPECTION &amp; TEST PLAN</b>					ITP No.: WSP-088-WPA-ITP-XQC-0124				
	Construction Process: Kerb and Channel					Rev 0				

Item	Basic Job Step	Acceptance Criteria	Applicable Standard	Inspection Test		Verification Activity by (RI)				Verifying Records
				Method	Frequency	S/C	WPA	MTM	O/S	
1 PRELIMINARIES										
1.1	Authorised documentation to commence work in place.	Approvals and permits obtained. CEP reviewed and approved.	Preparation of construction control documents (HSEQ-QC-PRO006-GEN-ALL)	Document review and approval	Once (Prior to Works)		CM (R)			TeamBinder Correspondence
2 MATERIALS										
2.1	Concrete	Concrete used in kerb extrusion machines to have a minimum cementitious material content as per below: <b>Traffic Routes:</b> 320 kg per cubic metre <b>Local Streets:</b> 280kg per cubic metre Concrete for kerb and channel that is placed and compacted between formwork to meet the below: <b>Traffic Routes:</b> N32 portland cement-based concrete or 32 MPa geopolymer concrete standard strength grade <b>Local Streets:</b> N25 portland cement-based concrete or 25 MPa geopolymer concrete standard strength grade as specified	VicRoads 703.05 (b)	Document review and approval	Once (Prior to Works)		SE (R)			Concrete Mix Design Documents Material Approval From via TeamBinder Delivery Dockets
3 PRE-COMMENCEMENT ACTIVITIES										
3.1	Survey set out	Works to be set out to the line, level and cross section as shown on the drawings	VicRoads 703.17	Inspection	Prior to works commencing		SE, SUR (H)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4 CONSTRUCTION DETAILS – KERB AND CHANNEL CONSTRUCTION										
4.1	Excavation	Excavate to the required depth to allow bedding material underneath kerb. Existing asphalt or bituminous surfacing shall be saw cut to produce a neat vertical face.	VicRoads 703.20	Inspection	Prior to pour		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist

<div><div><div><div></div></div><div>LEVEL CROSSING REMOVAL PROJECT</div></div><div><div>WESTERN</div><div>PROGRAM ALLIANCE</div></div></div>	INSPECTION & TEST PLAN		ITP No.: WSP-088-WPA-ITP-XQC-0124
	Construction Process:	Kerb and Channel	Rev 0

Item	Basic Job Step	Acceptance Criteria	Applicable Standard	Inspection Test		Verification Activity by (RI)				Verifying Records
				Method	Frequency	S/C	WPA	MTM	O/S	
4.2	Bedding Preparation	Bedding to be compacted size 20mm Class 3 or Class 4 crushed rock or crushed concrete  Bedding shall be not less than 100mm compacted thickness.	VicRoads 703.21	Inspection	Prior to pour		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.3	Kerb Construction with Machine Extrusion	Concrete to be fed to the machine at a uniform rate and produce a compacted, dense mass of concrete without any faulty or honeycombed patches. Surface to be free from surface pitting larger than 5 mm diameter.	VicRoads 703.23	Inspection	Each Pour		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.4	Profile Transitions	Profile transitions to be made at a constant rate between 10 and 20mm per metre	VicRoads 703.24	Inspection	Following completion of activity		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.5	Surface Finish	All edgings shall be rendered and have a steel trowel finish. Mortar shall consist of two parts fine aggregate, one part of cement, and water to produce a mix of suitable consistency. The thickness of rendering shall not exceed 3 mm.	VicRoads 703.25	Inspection	Following completion of activity		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.6	Joints	Transverse joints to be constructed at right angles to the back of edgings, at intervals not exceeding 2.5m Joints in kerbs to be opposite joints in adjacent footpaths/ SUP's	VicRoads 703.26	Inspection	Following completion of activity		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.7	Conduit Position Marking	Positions of any existing conduits passing under edgings shall be marked by a chase in the edging immediately above the conduit along with a suitable identification mark	VicRoads 703.28	Inspection	Following completion of activity		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist

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Item	Basic Job Step	Acceptance Criteria	Applicable Standard	Inspection Test		Verification Activity by (RI)				Verifying Records
				Method	Frequency	S/C	WPA	MTM	O/S	
4.8	Concrete Curing	Concrete shall be cured by water curing, wet hessian, polyethylene sheeting, curing compound or a combination. Concrete to be protected from damage until hard set.	VicRoads 703.10 VicRoads 703.27	Inspection	Each pour		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.9	Concrete Crack Repair	Concrete to have no surface cracks with width greater than 0.2 mm. Cracked sections of concrete shall be either removed and replaced, or repaired	VicRoads 703.30	Inspection	Following completion of activity		SE (I)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
4.10	As-Built Survey	Kerb and channel shall be constructed to the level of the adjoining pavement with a tolerance of 0 to +10 mm. Except on curves or in shaped areas, the deviation of the finished work from a 3 m straightedge shall not exceed 5 mm	VicRoads 703.15 (e)	Survey Conformance Report	Following completion of activity		SE (R)			3046-0000-QAC-FRM-0097 – Kerb and Channel Checklist
<b>5 CONFIRMATION OF CONFORMANCE AND CLOSE OUT</b>										
5.1	Lot close out.	Lot documentation complete, verifying records conforming / or NCR recorded and signed by relevant parties.	Quality Control Procedure 2792-0000-QAC-PRO-0003	Review and Approval	Following completion of activity		QMR (H)			TeamBinder Forms Module 'Completion Record'

## KERB AND CHANNEL CONSTRUCTION

**Project No:** 3046

**Date:**

**Package Name:** NWA

**Lot No:**

**ITP No:** WSP-088-WPA-ITP-XQC-0096

**Location:**

ITP REF	ACTIVITY & ACCEPTANCE CRITERIA	VERIFIED			COMMENTS / RECORDS Cross Refs/Support Docs [eg: NCR, Test No etc.]
		RESP	INTL	DATE	
<b>3</b>	<b>PRE-COMMENCEMENT ACTIVITIES</b>				
<b>3.1</b>	<b>SURVEY SET OUT</b> Survey to set out drainage pits to correct, line, level and coordinates as provided in drawings.	<b>SIN (H)</b> <b>SE (R)</b> <b>SUR (I)</b>			
<b>4</b>	<b>CONSTRUCTION DETAILS – KERB AND CHANNEL</b>				
<b>4.1</b>	<b>EXCAVATION</b> Excavate to the required depth to allow bedding material underneath kerb. Existing asphalt or bituminous surfacing shall be saw cut to produce a neat vertical face.				
<b>4.2</b>	<b>BEDDING PREPARATION</b> Bedding to be compacted size 20mm Class 3 or Class 4 crushed rock or crushed concrete Bedding shall be not less than 100mm compacted thickness.				
<b>4.3</b>	<b>KERB CONSTRUCTION WITH MACHINE EXTRUSION</b> Concrete to be fed to the machine at a uniform rate and produce a compacted, dense mass of concrete without any faulty or honeycombed patches. Surface to be free from surface pitting larger than 5 mm diameter.				
<b>4.4</b>	<b>PROFILE TRANSITIONS</b> Profile transitions to be made at a constant rate between 10 and 20mm per metre				
<b>4.5</b>	<b>SURFACE FINISH</b> All edgings shall be rendered and have a steel trowel finish. Mortar shall consist of two parts fine aggregate, one part of cement, and water to produce a mix of suitable consistency. The thickness of rendering shall not exceed 3 mm				
<b>4.6</b>	<b>JOINTS</b> Transverse joints to be constructed at right angles to the back of edgings, at intervals not exceeding 2.5m Joints in kerbs to be opposite joints in adjacent footpaths/ SUP's				
<b>4.7</b>	<b>CONDUIT POSITION MARKING</b> Positions of any existing conduits passing under edgings shall be marked by a chase in the edging immediately above the conduit along with a suitable identification mark				

## KERB AND CHANNEL CONSTRUCTION

ITP REF	ACTIVITY & ACCEPTANCE CRITERIA	VERIFIED			COMMENTS / RECORDS Cross Refs/Support Docs [eg: NCR, Test No etc.]
		RESP	INTL	DATE	
4.8	<b>Concrete Curing.</b> Concrete shall be cured by water curing, wet hessian, polyethylene sheeting, curing compound or a combination. Concrete to be protected from damage until hard set.				
4.9	<b>CONCRETE CRACK REPAIR</b> Concrete to have no surface cracks with width greater than 0.2 mm. Cracked sections of concrete shall be either removed and replaced, or repaired				
4.10	<b>AS-BUILT SURVEY</b> Kerb and channel shall be constructed to the level of the adjoining pavement with a tolerance of 0 to +10 mm. Except on curves or in shaped areas, the deviation of the finished work from a 3 m straightedge shall not exceed 5 mm				
<b>FINAL INSPECTION:</b> All work completed accordance with applicable procedures, drawings, specifications and approved changes.		SE (sign & date)			
		SUP (sign & date)			

<b>Sub-Contractor Name:</b>		<b>WPA Name:</b>	
<b>Role:</b>		<b>Role:</b>	
<b>Signature:</b>		<b>Signature:</b>	
<b>Date:</b>		<b>Date:</b>	

Punch List Items	Punch List / NCR - Yes/No	Punch List/ - NCR Number
1.		
2.		
3.		
4.		
5.		