

# SPARK - North East Link - Primary Package

### **Inspection and Test Plan (ITP)**

ITP Title: Line Marking
ITP Number: NEL-CNT-SDC-2990-PQA-ITP-0072 Rev 1
LOT Number:
Primary Asset Location Code:
Discipline: Pavement Line Marking
OFFICIAL : Sensitive

#### Spark NELP Approval Record

Function	Position	Name	Signature	Date
Prepared By	Quality Representative	Abiola Olulana	Abiola Olulana Digitall	y signed by Abiola Olulana 022.09.29 10:45:26 +10'00'
Reviewed By	Project Engineer	Elias Abdallah	Elias Abdallah Digitally Date: 20	signed by Elias Abdallah 22.09.29 11:47:49 +10'00'
Approved By	Quality Manager	Greg Iro		lly signed by Greg Iro 2022.09.29 12:01:01 D'

#### Notes:

- Ensure all Records or Checklist References are attached and that each Inspection Requirement is clearly named, signed, and dated.
- 2. Ensure every Records or Checklist References attached are legible

**OFFICIAL: Sensitive** 

- This Inspection Test Plan may be generic ensure the requirement is demographically clear to your scope or work
   Verification Inspections where applicable for the IREA stated as "Witness" or "Hold" shall be formally notified for their engagement and with sufficient advance notice time (3 days or as agreed with the Sub-IREA Representative and/or the Nominated Authority)
- 5. All Nominated Authority Hold Points are Witness Points for Sub-IREA
- The Sub-IREA representative is not required to physically sign-off on ITPs



Project: SPARK - North-East Link Primary Package Client: State of Victoria and the North-East Link State Tolling Corporation ITP Title: Line Marking References: IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR) Description: This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings. Standards: VicRoads 721 ITP No: NEL-CNT-SDC-2990-PQA-ITP-0072 Rev No: 1 Lot No: \_\_\_\_\_Location: \_\_\_\_\_\_to \_\_\_\_\_to \_\_\_\_\_to \_\_\_\_\_to Laver: Test Inspection/Verification (Name, signature & date) Records/Documents Field Notes / Comments Specification Item Resp. Inspection and Test Acceptance Criteria Freq. IREA Spark NEL Nominated No. Person Test Activity Reference Method **Sub-Contractor** Engineer Authority 1.0 Preliminaries (Include all aspects of Materials, Approvals, IFC Drawings, etc. Ensure all required permits have been raised prior to commencing works) NR HP NR NR IFU Construction Pkg InEight Ref: Notice Construction Documentation shall be PSDR Part F6 Construction Only submitted and approved prior to R 1.1 PΕ PW Package Approval 2 (a) to (h) Sign not IFC Design Pkg commencing work at site. Reg'd InEight Ref: Provisions of records or evidence HP HP WP WP demonstrating compliance of Raised Pavement Markers, Adhesive, Line Notice marking and Road marking Paint, Only Glass Beads, Thermoplastic Sign not Pavement marking material, Cold-Req'd Applied Plastic Pavement Marking VicRoads Material, Pliant Polymer Marking 721.A05 WP Release InEight Tape and Bicycle Lane surfacing as Reference: IFC Drawings Material specified in the specs. Unless 1.2 PΕ PW Conformance otherwise specified, materials used PSDR Part B for signing and pavement marking 7(q) Table B.7 Records Review shall comply with the relevant sections of VicRoads Standard Specifications for Roadworks and Bridgeworks. Pliant polymer pavement marking tape intended for use under this Contract shall be approved by the

Webuild Source Doc# MSF28-2 Spark PMS Source Doc# MSF28-2-NEL Rev 3 Nominated Authority.

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Spark In Eight ITP Number NEL-CNT-SDC-2990-PQA-ITP-0072 Rev 1



		Proje	Project: SPARK – North-East Link Primary Package Client: State of Victoria and the North-East Link State Tolling Corporation											
ITP 1	Title: Lin	e Marking					<b>References:</b> IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR)							
<b>Description:</b> This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings.								s: VicRoads 7	721					
		ITP N	o: NEL-CNT-SI	DC-2990-PQA-ITP-0072 <b>Rev I</b>	No: 1									
		Lot N	o:	Location	1:			Ch:	to	Offset	to	Layer:		
Item	Resp.	Inspection an	d Specification		Test	Test	Inspecti	· · · · ·	ame, signature & d	,	Records/Documents	Field Notes / Comments		
No.	Person	Test Activity	Reference	Acceptance Criteria	Method	Freq.	Sub- Contractor	Spark NEL Engineer	Nominated Authority	IREA				
1.3	Removal of Existing Pavement markings (If required)		VicRoads 721.A08, 721.A12	Nominated Authority to approve method procedure to remove old / redundant Line marking, Road Markings & RRPM's	R	PW	НР	НР	HP	WP Notice Only Sign not Req'd	HP Release InEight Reference: #			
2.0	Operatio	ns (Include Work	Execution – Installat	tion / Manufacturing Process step-by-st	tep)									
2.1	SE	Site Preparatio	VicRoads 721.A06 IFC Drawing	Surface clear of existing unsounds, obsolete or redundant pavement marking. Surface to be dry and clear of any foreign materials and debris.	V	PW	HP	WP	NR	NR  Notice Only Sign not Req'd	This ITP			
2.2	SE	Removal of old/redundant Line marking, Road Marking RRPMs (if applicable)	VicRoads 721.A08 IFC Drawing	Where required, old, redundant or damaged pavement markers shall be removed in accordance with specification and drawings and the approved method procedure.	S	Prior to Paint/ Adhesive Application	HP	НР	WP	WP  Notice Only Sign not Req'd	WP Release InEight Reference:			
2.3	SE	Positioning of Line marking, road marking a RRPMs	/21.A09,	Pavement marking shall be set out and positioned in accordance with the current IFC drawings.	S	Prior to Paint/ Adhesive Application	НР	WP	NR	NR Notice Only Sign not Req'd	This ITP			

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Project: SPARK - North-East Link Primary Package Client: State of Victoria and the North-East Link State Tolling Corporation ITP Title: Line Marking References: IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR) Description: This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings. Standards: VicRoads 721 ITP No: NEL-CNT-SDC-2990-PQA-ITP-0072 Rev No: 1 Lot No: \_\_\_\_\_Location: \_\_\_\_\_Ch: \_\_\_to \_\_\_Offset: \_\_\_to \_\_\_Layer: Test Inspection/Verification (Name, signature & date) Records/Documents Field Notes / Comments Inspection and Specification Item Resp. Test Acceptance Criteria Freq. IREA Spark NEL Nominated No. Person Test Activity Reference Method **Sub-Contractor** Engineer Authority HP HP HP WP Inspection, verification, and HP Release InEight Setout - Line acceptance of survey set out points. Prior to VicRoads Reference: Notice Submit the set out of pavement marking, road Paint/ PΕ 2.4 721.B05, Only marking and markings for permanent works for Adhesive IFC Drawing Sign not RRPMs. review by NA (submit survey file in Application Reg'd accordance with timeline) Application of VicRoads -The application of pavement HP WP NR NR New Pavement 721.A101, marking shall be in accordance with Marking 721.B04, specified program requirements. Notice 721.E01. -All data shall be recorded in the Only 721.E02. daily diary Sign not 721.E021, -All pavement marking shall be within Req'd 721.E03, specified tolerances. IFC Drawings -Long Life pavement marking shall be prepared and used accordance Prior to with the manufacturer's specification Paint/ 2.5 SE and applied in accordance with This ITP Adhesive required specifications. Application -The shared use, pedestrian and bicycle lane pavement markers to be

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applied to specification and within tolerance. (Spec reference)
-Line marking in incorrect position will be removed and replaced in accordance with sub-contractors approved methodology to suit

specification

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Project: SPARK - North-East Link Primary Package Client: State of Victoria and the North-East Link State Tolling Corporation

ITP Title: Line Marking

References: IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR)

Description: This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings.

Standards: VicRoads 721

ITP No: NEL-CNT-SDC-2990-PQA-ITP-0072 Rev No: 1

		Lot No:		Location	Ch:	to	Offset	: to	Layer:			
Item	Resp.	Inspection and	Specification		Test	Test	Inspecti		me, signature & da	ate)	Records/Documents	Field Notes / Comments
No.	Person	Test Activity	Reference	Acceptance Criteria	Method	Freq.	Sub- Contractor	Spark NEL Engineer	Nominated Authority	IREA		
2.6	SE	Placing and Application of Raised Pavement Markers	721.A07, Table 721.A101, 721.A05, IFC Drawings,	-Markers shall be placed in accordance with manufacturer specificationAdhesives on exposed surface of marker shall be removedA marker placed in incorrect position shall be removed and replaced by a new markerWherever possible markers shall be placed clear of longitudinal or transverse joints and clear of surface cracks or positions where markers have been removed and the surface is damagedAll pavement markings shall be within specified tolerancesThe Contractor shall comply with the tolerance as shown in Table 721.A101 -Spot check during placement with occur.	V	PL	HP	WP	NR	NR Notice Only Sign not Req'd	This ITP	
2.7	PE	Submission of Job Completion Report	VicRoads 721.A12, 721.A05, 721.A10, 721.A14, 721.D02, 721.E02	A submission of job completion report setting out completed works and associated documentation. Asbuilt drawing will be submitted for final handover.	V & R	PL	НР	НР	WP	Notice Only Sign not Req'd	WP Release InEight Reference: #  Job Completion Report	
2.8	PE	Acceptance of Retro-reflectivity	VicRoads 721.A13,	Retro-reflectivity testing to be conducted between 3-5 weeks of		X1	HP	HP	WP	WP	WP Release InEight Reference:	



		Project:	SPARK - No	rth-East Link Primary Package	Client:	State of Vio	ctoria and the N	orth-East Link	State Tolling (	Corporation	I		
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<b>Description:</b> This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings.							all	s: VicRoads 7	21				
		ITP No:	NEL-CNT-SE	C-2990-PQA-ITP-0072 Rev N	lo: 1		•						
		Lot No:		Location	:			Ch:	to	Offset	to	Layer:	
	_	•			Test				me, signature & da		Records/Documents	Field Notes / Comments	
Item No.	Resp. Person	Inspection and Test Activity	Specification Reference	Acceptance Criteria	Test Method	Freq.	Sub- Contractor	Spark NEL Engineer	Nominated Authority	IREA			
		3-5 weeks post final coat	721.A12 Table 721.A131	completion of the final coat using VR RC424.01 as listed in section 175. A retroreflective report to be submitted determining the retroreflective for each test lot. Measurements shall be forwarded to the Nominated Authority no later than five days from when the measurements were taken.	T					Notice Only Sign not Req'd	# Retro-reflectivity Report (3-5 weeks after completion)		
2.9	PE	Acceptance of Retro-reflectivity 5-6 months post final coat	VicRoads 721.A13, 721.A12 Table 721.A131	Pavement Marking shall comply with specified requirements. A second Retro-reflectivity testing to be conducted 5-6 month after completion of the final coat using VR RC424.01 as listed in section 175. A retroreflective report to be submitted determining the retroreflective for each test lot. Measurements shall be forwarded to the Nominated Authority no later than five days from when the measurements were taken.	Т	X1	НР	HP	WP	WP Notice Only Sign not Req'd	WP Release InEight Reference:  #  Retro-reflectivity Report (5-6 months after completion)		
2.10	PE	Acceptance of Colour	VicRoads 721.A14	White markings - the colour match test for white materials shall be based on luminance factor and conducted in accordance with AS 4049.4, using Field Method 2 of AS 4049.4 Appendix H4.3 as listed in Section 175.  Yellow markings – the colour match test for non-white (yellow) materials	Т	X1	НР	НР	WP	WP  Notice Only Sign not Req'd	WP Release InEight Reference: # Test Report		

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ITP T	itle: Line	e Marking					<b>References:</b> IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR)						
<b>Description:</b> This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings.								s: VicRoads 7	21				
		ITP No	: NEL-CNT-SI	DC-2990-PQA-ITP-0072 <b>Rev I</b>	No: 1		•						
		Lot No	):	Location	1:			Ch:	to	Offset:	to	Layer:	
Item	Resp.	Inspection and	Specification		Test	Test	Inspection		me, signature & da	,	Records/Documents	Field Notes / Comments	
No.	Person	Test Activity	Reference	Acceptance Criteria	Method	Freq.	Sub- Contractor	Spark NEL Engineer	Nominated Authority	IREA			
				shall be conducted in accordance with AS 4049.4 using Field Method 2 of AS 4049.4 Appendix H4.3, using the reference swatch sample NCS S 1070 Y20R.  Measurements shall be forwarded to the Nominated Authority upon request no later than five days from when the measurements were taken.									
3.0	Post Ope	rations (Include Ir	spection and Testir	ng)									
3.1	PE	Verification and lot records Complete	CQMP Section 8.2.6.2	Ensure completed work checklists, inspection and test results and contractor conformance records are progressively and permanently saved and stored as soon as possible after they are received. Completed construction lot records are transferred to the project Quality Team for final record verification prior to being closed	V	PL	HP	HP	NR	NR Notice Only Sign not Req'd	This ITP Lot record		
3.2	PE	NCR Close out (i applicable)	CQMP Section 8.3	All NCR's presented for closure	R	PL	HP	НР	НР	WP Notice Only Sign not req	HP Release InEight Reference:  #  NCR InEight Reference:  #		

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Spark In Eight ITP Number NEL-CNT-SDC-2990-PQA-ITP-0072 Rev1



		Project:	SPARK – No	rth-East Link Primary Pa	ackage Client	State of Vi	ctoria and the N	lorth-East Linl	ς State Tolling 0	Corporation	n	
ITP T	itle: Line	e Marking						References: IFC Drawings, Construction Quality Management Plan (CQMP), Project Scope and Delivery Requirement (PSDR)				
<b>Description:</b> This ITP covers the supply and application of pavement marking paint and glass beads, longitudinal lines, intersection markings and other markings on the road surface for all new installations and maintenance of pavement markings.								Standards: VicRoads 721				
		-		C-2990-PQA-ITP-0072								
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Item	Resp.	Inspection and	Specification		Test	Test	Inspecti	,	ame, signature & da		Records/Documents	Field Notes / Comments
No.	Person	Test Activity	Reference	Acceptance Criteria	Method	Freq.	Sub- Contractor	Spark NEL Engineer	Nominated Authority	IREA		
											NCR Module	
4.0 Quality												
4.1	QSR	Identification and control of non- conforming products or services (if applicable)	CQMP Section 8.3	Review and confirm closure of NCR's and associated RFI's p closing of construction lot	rior to	PL	NR	НР	NR	NR	NCR closed with related documentation	
4.2	QSR	Check all quality records for lot closure	CQMP Section 8.3	All applicable quality records a complete	re R	PL	NR	НР	NR	NR	Compiled documents (all data reports and records)	
					•	•	•				•	
Leger					Mothod	Inenaction	. / Vorification	Tost Frague	nev		Other	
Responsibility  SS: Site Supervisor SE: Site Engineer PE: Project Engineer SPE: Senior Project Engineer GE: Geotechnical Engineer PS: Project Surveyor  PSM: Project Systems Manager QSR: Quality Site Rep. STR: Structural Engineer SSR: Site Safety Rep. EMR: Environmental Management Rep. NA: Nominated Authority (Release of HP) IREA: Independent Reviewer (Observer)				Wethod Inspection / V: Verify I: Inspection R: Review T: Test S: Survey Inspection / WP: Hold Poin WP: Witness R NR: Not Requ		Point ess Point	t PW: Prior to Works Point PL: Per Lot		d	QP: Quality Plan RFI: Request for Information NCR: Non-Conformance VC: Verification Checklist XXXX: Sequential Number from Doc Control		
DDD -	-Types:	B – Building	ı, C – Civil, G –	General, M – Mechanical &	k Electrical, I – N	Notorway Ope	erations System (I	TS), S – Struct	ure, O – Tolling, T	– Tunnel,	U – Urban Design <u>&amp;</u> La	andscape
Supplier/Subcontractor: Name Signature and Dat						ate	Spark-NELPP	REP	lame		Si	gnature and Date

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Spark In Eight ITP Number NEL-CNT-SDC-2990-PQA-ITP-0072 Rev 1

INSPECTION AT	ND IEST PLAN (II	<u> P)</u>		NORTH EAST LINK
(If applicable)				
Lot closure comments:				
Spark NELPP QA Rep:	Name	Signature:	Date:	_