

Project: Peacocke Whatukooruru Drive Number and Revision: DS1205 - 138 - Rev D

## SECTION 1 – GENERAL DETAILS

Project Name: Peacocke Whatukooruru Drive		ITP Number:	138
Project Number:	DS1205	ITP Status:	For Approval
ITP Description: Texas Rail Installation		Revision:	D

Contract Number: Peacocke Whatukooruru Drive		Drawing Sets:	Drawings 4372    4272		
Customer:	Hamilton City Council	Cassification	Project Specification and Appendices.		
Quality Specified:	NZTA Z/1	Specification:			

	Review / Update History					Verification	on Activit	у
Rev:	Status:	Date:	Reviewed By:	Revision Details: Activity Key Respon			Responsibilities Key	
Δ.	Dueft for Assessed	40/00/0004	lasta ana Martini	First Devision for Devisor and Assessed	А	Action	ENG	Engineer / Engineer's Rep
A	Draft for Approval	12/08/2024	Jotham Makini	First Revision for Review and Approval	В	Report by Breach	CR	Customer Rep
В	Draft for Approval	29/10/2024	Eva Fan	Second Revision for Review and Approval - Include type of Coating		Check	PD	Project Director
	Brait for Approval	20/10/2024	Evarian			Dimension Inspection	PM	Project Manager
С	For Approval	4/44/2024	F F	For Deview and Approval as per PRO's comments		Examine	OP	Operations Manager
	For Approval 1/11/2024 Eva Fan For Review and Approval as per BBO's comments	НР	Hold Point (Engineer)	HSE	HSE Manager / Rep			
D	For Approval	9/12/2024	Eva Fan	For Review and Approval as per BBO's comments		Hold Point (Internal)	QM	QA Manager / Rep
	ι οι Αρριοναί	3/12/2024	Evaran	or Neview and Approval as per BBO's comments	ı	Inspection	PE	Project Engineer
					м	Monitor on Random Basis	SE	Site Engineer
					0	Operation	QE	Quality Engineer
					R	Review	SUP	Superintendent / Supervisor
					s	Subcontractor	sv	Surveyor
					V	Visual Verification	ITP	Third Party Inspector
					w	W Witness Point		Specialist

SECTION 2A – ITP Approval	SECTION 2B - ITP CLOSEOUT

Position	Name:	Signature:	Date:	Position	Name:	Signature:	Date:
Downer PM				Downer PM			
Downer QM				Downer QM			
Client (If Applicable)				Client (If Applicable)			



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			Standard /			Verificati	on Activity			
Item No.	Inspection and Test Point	Acceptance / Conformance Criteria	Specification	Verifying Document	Frequency	Activity	Ву			
SECTION	SECTION 3 - PRE-CONSTRUCTION (P&G / ESTABLISHMENT)									
3.01	Site Requirements									
3.01.01	Construction Pack	Methodology and ITP to be submitted to the Engineer and approved prior to works beginning	Downer	CONOA	Submit 10 days prior to commencement of works	НР	ENG			
3.01.02	Survey Setout	Survey Set out as per contract drawings and specification, capturing pre-construction levels where needed.	Downer	Survey Records	Prior to Works	Н	sv			
3.01.03	Service Location	Complete the Excavation permit process to identify, locate and protect all services.	Downer	Excavation Permit	Prior to Excavation	Н	SE			
3.01.04	Internal Permits	Complete internal Permits as required to complete works including but not limited to: Hot works, concrete saw, lift, confined space, working at height etc.	Downer	Internal Permits	Prior to Excavation	Н	SE			
3.01.05	External Permits	Obtain External Permits as required to complete works including but not limited to: Close approach, Worksafe Notice etc.	Downer	External Permits	Prior to Excavation	Н	PE			
3.01.06	Approved Construction Drawings	Prior to starting works, Ensure that the construction drawings are both IFC and the Current Version.	Downer	IFC Drawings	Prior to works start	Н	PE			
SECTION	4 - MATERIAL, PERSONNEL & THIRD PA	RTY APPROVAL								
4.01	Precast Traffic Barrier									
4.01.01	Precast Traffic Barrier	All precast barrier QA to be in separate ITP for precast element. – This item to be acceptance of precast QA ITP	PS-1	ВВО	Before Installation	Н	PE			
4.01.02	Ellipse Handrail	Eclipse handrail QA to demonstrate compliance with Structural steel notes on IFC DWG 4001 (refer to fabrication ITP)	Structural steel notes on IFC DWG 4001	Shop Drawing/Material Certificate/PDS	Before Installation	Н	PE			
4.01.03	Non-Conductive Barrier Coating	Non-Conductive Barrier Coating to be Carboguard 636 XT (approved in RFI-0263), min. 150 microns to be applied to underside and side of baseplate (refer to fabrication ITP)	AS/NZS 2312/HERA Report	Shop Drawing/Coating Certificate/delivery dockets	Before Installation	Н	PE			



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		Acceptance / Conformance Criteria		Standard /		Frequency	Verification Activity		
tem No.	Inspection and Test Point			Specification	Verifying Document		Activity	Ву	
4.01.04	Fall Protection Wire Rope	Wire rope shall be <u>6mm stainless steel wire rope</u> or otherwise approved; Material certs to demonstrate compliance of SS wire rope to be SS316 as per NZTA M23 Appendix B Rev.2		NZTA M23 Appendix B Rev.2 & NTT003	Material Certification	Before Installation	Н	PE	
4.01.05	M16 & M24 bolts, washers and nuts	Property Class 8.8 Hold Down Bolts, HDG	AS/NZS 3845.1: 2015 AS 3569 AS2759	Material Certification	Before Installation	Н	PE		
4.01.06	Sleeve Member and Pin on bottom of Sleeve, Base Plate and Rail Vertical Posts, Rail Termination Cap	Material certs to demonstrate compliance with 4001 (refer to fabrication ITP)	Structural steel notes on IFC DWG 4001	Material Certification	Before Installation	Н	PE		
4.01.07 Wire Rope Termination  Material cert on U bolt or similar approved for safety wire rope termination detail			Structural steel notes on IFC DWG 4001	Material Certification	Before Installation	Н	PE		
	5 - CONSTRUCTION ACTIVITY  Precast Barrier and Texas Rail Erection Insp	pection and Testing							
	Temporary Works (Stitch Pour Formwork)	Temporary works to be installed as per design be issued by temporary works inspector prior to	Downer	Permit to load/Inspection	As defined in the temporary works design	НР	ENG		
5.01.02	Cast-In M24 Bolt	Re-check all bolt assemblies are Class 8.8 hig on the drawings	NZS 3404.1	IFC/Material Certification	Before Installation	Н	PE		
5.01.03	Check cast-in bolt set-out	As-built bolt locations, and overall alignment of hole positioning. Set-out shims/packers	Downer	Survey Data	Before Installation	НР	ENG		
5.01.04	Baseplate and Ellipse Handrail tolerance	Install vertical post with handrail and partly tentensioning tolerances for steelwork/bolts are close tensioning tension	TENSION  Sinimum bolt tension kN 95 145 210 335 490 given in this Table are n proof loads derived from	Downer/AS/NZS 5131: 2016	Hold Point Release	Before Installation	Н	PE	



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5.01.05	Rev.D Tension bolts	Check each bolt has a washer, nut and locknut and tension all bolts using part turn methodology	AS/NZS 5131: 2016 A1 Section 8.5	Photo/Site-Approval	Each Baseplate	1	SE
5.01.06	Grouting under baseplate	While Hi-ab is holding the handrail components, adjust/tighten, and apply Sika212 or similar (approved by Engineer) to the underside of the baseplate (nom. 15mm)	AS/NZS 5131: 2017	PDS	Each Baseplate	1	SE
5.01.07	Fall Protection Wire Rope	Prior to installation make sure wire ropes are free from: wear or scraping, kinking, crushing, bird caging damages.  Wire Rope to be installed within the following tolerance  AS/NZS 3845.1:2015  42  Unless specified otherwise in the system documentation or by the Road Authority, the following shall apply:  (a) Fittings such as swages, rigging screws and the like, shall be placed so that the end of the fitting is a minimum distance of 50 mm away from a post.  In order to comply with Item (a), the requirements to avoid clashes with fittings, it is permissible to move the location of a post.  (b) Variation from true plan position of posts	AS/NZS 3845.1: 2015	Inspection/Site- Approval	Before Installation	Н	PE
	I 6 - POST CONSTRUCTION (FINAL INS	PECTION AND HANDOVER)					
6.01	General					_	
6.01.01	Construction Record Compilation	Compile construction records for final submission ensuring defects (NCRs) / Snags / missing records are captured or closed out, all tests have been received and passed, and changes / omissions have been noted.	Downer	Records	Post construction	Н	SE
6.01.02	Survey Records	Ensure all items have been surveyed and records are assembled for asbuilting	Downer	Records	Post construction	Н	SV
6.01.03	Redline Drawings	Create a set of Redline Drawings for Asbuilt creation noting all changes and departures in red pen. Red line to show any changes to footpath location or basecourse depth.	Downer	Redlines	Post construction	Н	PE
6.01.04	Defect, Snag and Punch List	Update the project Defect, Snag and Punch List Register	Downer	Register	Post construction	Н	PE