

Document # 1145-C200-FUL-QAC-ITP-0079

Revision: 02 Date : 13/02/2023

Client:	MRPV	Construction Process:	Watermain Construction	Prepared by:		Reviewed by :		Approved by :	
Project:	Craigieburn Road Upgrade	Specifications:	WSA 03-2011	Name:	Carlo Urpis	Name:	Matthew Lee Archer	Name:	Babak Rudd
Contract No		Structure / Component: Location:		Position: Date :	Site Engineer 16/03/2022	Position: Date :		Position: Date :	Quality Manager 18/03/2022

Lot No:	ITP-079-AX-LOT-XXX	Lot Title:	ITP-079-AX-LOT-XXX - Desc	Location: From (	) t	o ( )	Lot Size/ Quantit	y:		Lot Opened Date:		
Item			Inspection / Controls and Verification Deta	il			HP/ WP/	Responsibility		Checke	ed by:	
No.	Task/Activity Description	Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	AP/ IP/ TP/ SCP	Project Engineer Site Engineer Superintendent Surveyor Foreman	Superintendent	Fulton Hogan	FH's Sub- contractor	Date
	Preliminary Works											
1	Issued for construction drawings	Prior to commencement	Ensure the most current revision of drawings is used to conduct the works.	IFC drawings	Review	Compliance checklist - Daily Prestart Form	HP*	Project Manager/Engineer	N/A		N/A	
2	Permits with relevant authorities	Prior to commencement	Permits to be obtained by relevant authorities	DBYD	Review DBYD	Compliance checklist -Excavation Permit	HP*	Project Manager/Engineer	N/A		N/A	
	SURVEY, SETOUT & LOCATION OF EXIS	TING SERVICES										
3	Survey set-out	Prior to commencement	Building line pegs to be installed prior to any excavation	IFC drawings	Visual check	Compliance checklist - Pipeline construction	SCP	Surveyor	N/A		N/A	
4	Service location	Prior to Excavations onsite	All existing services to be located and protections in place	DBYD	Review drawings and DBYD	Compliance checklist –Excavation Permit	WP	Site Manager/Engineer/S uperintendent	N/A		N/A	



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4.1	Installation of property service conduits	Prior to commencement	All service ducts required by road contractor to be installed prior to works to be inspected and ensure they meet MRWA standards	MRWA-W-110	Visual check	Site Daily Diary Entry	HP*	Site Manager/Engineer	N/A		N/A	
	MATERIAL CONFORMANCE											
5	Correct pipe and fittings onsite	When delivered	Inspect materials in delivery against order. Pipe size matches plans	Delivery docket/ IFC drawings	Visual check	Compliance checklist - Pipeline construction	HP*	Site Manager/Engineer	N/A		N/A	
6	Correct embedment / backfill materials onsite	When delivered	Inspect bedding material to ensure suitability	MRWA-W-201 to 203	Visual check	Compliance checklist - Pipeline construction	HP*	Site Manager/Engineer	N/A		N/A	
	ENVIROMENTAL & SAFETY											
7	Environmental controls	Daily	Ensure environmental controls in place and being maintained as per the site EMP (if the civil contractor is responsible for managing the site then as long as we do not distrust their controls this Item can be ticked as N/A)	EMP	Visual	Compliance checklist - Daily Prestart Form	HP*	Site Manager/Engineer	N/A		N/A	
8	Safety controls	Daily	Ensure safety controls are in place as per the relevant safety instructions and SWMS	SMP	Visual	Compliance checklist - Daily Prestart Form	HP*	Site Manager/Engineer	N/A		N/A	
	TRENCHING & EXCAVATION											
9	Trenching	Prior to entry into open trench	Ensure trench width and depth are within tolerance	IFC drawings / MRWA-W-202	Visual	Compliance checklist - Pipeline construction	SCP	Site Manager/Engineer	N/A		N/A	
10	Trenching	Prior to entry into open trench	Ensure trench foundation & wall firm, stiff & suitable	MRWA-W-202	Visual	Compliance checklist - Pipeline construction	HP*	Site Manager/Engineer	N/A		N/A	
11	Placement of embedment material	Prior to backfilling of specified area of trench	Ensure pipe bedding depth is acceptable	MRWA-W-202	Visual	Compliance checklist - Pipeline construction	HP*	Site Manager/Engineer	N/A		N/A	
	PIPE INSTALLATION											
12	Pipe laying	Prior to backfilling of specified area of trench	Ensure pipe joint deflection is acceptable and witness marks are applied and visible	MRWA-W-103	Visual	Compliance checklist - Pipeline construction	HP*	Site Manager/Engineer	N/A		N/A	
13	Property services	Prior to backfilling of specified area of trench	Ensure tapping collars are installed as per measurements on plans	IFC drawings	Visual	As constructed information / Compliance checklist - Pipeline construction	SCP	Site Manager/Engineer	N/A		N/A	
14	Dual water property services	Prior to backfilling of specified area of trench	Ensure tapping collars are installed as per dual water specifications (to the left of the DW)	IFC drawings / MRWA-W110 & 111	Visual	As constructed information / Compliance checklist - Pipeline construction	WP	Site Manager/Engineer/S uperintendent			N/A	



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Contract No:	1145	Structure / Component: Location:		Position: Date :	Site Engineer 16/03/2022	Position: Date :		Position: Date :	Quality Manager 18/03/2022	

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15	Valve installation	Prior to backfilling of specified area of trench	Ensure valves are installed correctly.	IFC drawings / WSA page 233 15.4	Visual	As constructed information / Compliance checklist - Pipeline construction	SCP	Site Manager/Engineer	N/A		N/A	
16	Hydrant installation	Prior to backfilling of specified area of trench	Ensure hydrants are installed correctly.	IFC drawings / WSA page 233 15.4	Visual	As constructed information / Compliance checklist - Pipeline construction	SCP	Site Manager/Engineer	N/A		N/A	
17	Washout installation	Prior to backfilling of specified area of trench	Ensure washouts are installed correctly.	IFC drawings / WSA page 233 15.4	Visual	As constructed information / Compliance checklist - Pipeline construction	SCP	Site Manager/Engineer	N/A		N/A	
	CONCRETE ANCHOR BLOCKS											
18	Acceptance of concrete delivery	When concrete is required	Concrete delivered to site to be acceptable. WIN 25 WSA approved mix (20Mpa, 20mm rock , 80 slump)	Concrete delivery docket	Visual	Watermain Anchor Block Checklist – Procedural Verification Checklist ITC- 803(SEW .018)	HP*	Site Manager	N/A		N/A	
19	Installation of anchor blocks and thrust restraints	When concrete is required	Installed anchor blocks / thrust restraints are acceptable	MRWA-W- 204,205A & 205B	Visual	Watermain Anchor Block Checklist – Procedural Verification Checklist ITC- 803(SEW .018)	WP	Site Manager/Engineer/S uperintendent			N/A	
19.1	Correct steel reinforcement used in restraint	Prior to anchor blocks being poured	Reinforcement is as per MRWA 205-A, 205-B and according to thrust area as noted in face sheet of project plan	MRWA – W – 205 A and 205-B	Visual	Watermain Anchor Block Checklist – Procedural Verification Checklist ITC- 803 (SEW .018)	WP	Site Manager/Engineer/S uperintendent			N/A	
	BACKFILL OF TRENCHES											
20	Placement of embedment overlay	Completion of pipelaying	Ensure overlay depth & installation is acceptable	MRWA-W-202	Visual	Compliance checklist - Pipeline construction	HP*	Site Manager	N/A		N/A	
21	Installation of detectable marker tape	Completion of pipelaying	Detectable marker tape to be installed in first layer of backfill	MRWA-W-202	Visual	Compliance checklist - Pipeline construction	HP*	Site Manager	N/A		N/A	
22	Placement of compactable material in trafficable areas	Completion of pipelaying	Backfill material to be acceptable & compaction of trench line completed	MRWA-W- 202,202	Visual / NATA if required	Compliance checklist - Pipeline construction	HP*	Site Manager	N/A		N/A	
23	Monitoring of WC1 works	Once per week	Crews compliance with all Fulton Hogan Procedures and SWMS	Pipelines SMP, SWMS, Trenching Procedure	Visual	Weekly Site Safety Inspection Checklist	HP*	Project Manager/Engineer	N/A		N/A	
24	Monitoring of WC2 works	Twice per week	Crews compliance with all Fulton Hogan Procedures and SWMS	Pipelines SMP, SWMS, Trenching Procedure	Visual	Weekly Site Safety Inspection Checklist	HP*	Project Manager/Engineer	N/A			



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HP/ Responsibility		Lot Opened Date:								
WP/ Responsibility	Checked by:									
AP/ Project Engineer AP/ Site Engineer Superintendent Surveyor Foreman	Superintendent Fulton Hogan	FH's Sub- contractor	Date							
QUALITY										
HP* Site Manager	N/A	N/A								
HP* Site Manager	N/A	N/A								
TP/ SCF	Superintendent Surveyor Foreman  Site Manager	Superintendent Superintendent Fulton Hogan  Site Manager N/A	Superintendent Superintendent Fulton Hogan PH'S Sub- contractor  Site Manager N/A N/A							

#### Final Inspection

The signature below verifies that this ITP has been completed in accordance with the FH's Quality system Procedures and verifies lot compliance with specifications.

Position: Print Name: Signature: Date:

Work Com	Vork Completed On:									
Legend	Legend									
HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	IP	Inspection point	Formal Inspection to be done and recorded					
HP*	FH Hold Point	Work shall not proceed past the HP* until released by FH	TP	Test Point	Product compliance test to be undertaken and recorded/reported					
AP	Approval Point	Written or verbal approval given by the Superintendent	SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report					
			WP	Witness Point	An inspection which must be witnessed by the Superintendent					