



Inspection and Test Plans

Prepared for

Huon Management

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Project : Merryville T-Intersection

Contractor : Huon Management

ITP (Job): 1-01 1011-Prelims

ITP Template : PT 1-01 Preliminaries

ITP No. : 1154

Process Step	Verification Point	Criteria	Details
1.Initial site establishment			
	A.Site induction	Initial site employees inducted	
	B.Site amenities and facilities	Sufficient site amenities of appropriate standard provided First aid facilities provided and contents checked	
	C.Site safety notices displayed	Workers Compensation notice displayed Site safety rules displayed Safety signage as applicable displayed Safety and environment policy displayed Nominated Safety representative notices displayed First Aid Officers notice displayed	
	D.Personal protective equipment (PPE)	PPE issued to initial site employees Arrangements for future issues of PPE in place	
	E.Site access and parking	Site access and parking arrangements in place	
	F.Survey marks	Survey marks identified and protected	
	G.Waste management	Waste management plan and arrangements in place	

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ITP (Job): 1-02 1011 Env. Controls

ITP Template : PT 1-03 Environmental Controls

ITP No. : 1155

Process Step	Verification Point	Criteria	Details
1.Prepare Env Control Plan or identify control measu			- Reference Aus Spec Yass Shire Council C211.10
	A.As applicable Environmental Control Plan approval	Obtain council's approval of environmental control plan	- Reference Aus Spec Yass Shire Council C211.03
2.Establish overall enviroment controls			
	B.Overall compliance with Environmental Control Plan	Overall measures in place in accordance with Environmental Control Plan/identified measures	
	C.Run -off controls	Run-off controls in place as needed, eg straw bales, silt fences, swales etc	

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ITP (Job): 1-03 1011 TTM

ITP Template : PT 1-04 Temporary Traffic Management

ITP No. : 1156

Process Step	Verification Point	Criteria	Details
1.Prepare TTM submission			- As applicable undertake necessary consultations
	A.Check TTM Submission	Enable construction activity TTM to AS1742.3 good practice.Superintendents endorsement of TTM and release of Hold Point 1.1	- Reference Aus Spec C201 and AS1742.3 - Provide submissions at least 5 working days prior to proposed submission to Delegate at Yass
2.Obtain approval of Delegate at Yass			
	B.Delegates Approval	Delegates Approval to TTM obtained	-Reference: Aus Spec Yass Shire Council C201.03
3.Distribute copies of TTM docs			- Current copy of TTM and/or as applicable AS1742.3 to be kept on site.
4.Give any required notices			
5.Set up TTM			- Set up for TTM to include after hours contact arrangements for remedying deficiencies.
	C.Check TTM	Location and type of TCD to drawing/standard arrangementFor control by traffic controllers Superintendents release of Hold Point 1.2For opening of side tracks Superintendents release of Hold Point 1.3	- Reference: TTM drawing and/or AS1742.3 - Provide Superintendent with at least one days notice of opening of side track and at least two days notice of use of traffic controllers
6.Commence use of TTM arrangement			
	D.Monitoring check of TTM	TCDs not missing or deficientTTM operating satisfactorily	- Reference: TTM drawing and/or AS1742.3 - Provide Superintendent with at least one days notice of opening of side track and at least two days notice of use of traffic controllers
7.Remove TTM			
	E.Check site clear and tidy regarding TTM aspects	TTM removed. Site clean and tidy regarding TTM aspects.	

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ITP (Job): 1-04 1011 E'works

ITP Template : PT 1-05 Earthworks

ITP No. : 1157

Process Step	Verification Point	Criteria	Details
	A.Check clearances obtained	Evidence of services clearances being obtained sighted	
	B.Work Method Statement(s)	Work Method Statement available	
1.Setting out installation of env control measures			
	C.Confirm setting out	Existing ground levels as per design	Check long sections every 100m
	D.Notification of Clearing Operations	Superintendents release of Hold Point 2.1	-Superintendent to be notified of clearing in given area.
	E.Notification of Earthwork Operations - Survey	Superintendents release of Hold Point 2.2	-Superintendent to be notified of earthwork operations in given area.
	F.Top Soil and Spoil Areas - Approval of sites	Superintendents release of Hold Points 2.3 and 2.4	-Reference: Aus Spec C213.06 and C213.34 -Three working days in advance of stockpiling topsoil and spoiling operations submit details of proposed topsoil stockpiles and plan or advise on proposed spoil areas.
2.Clear and Strip			
	G.Commencement of filling	Superintendents release of Hold Point 2.5	-Reference: Aus Spec C213.35, C213.23, C213.28 or C213.31 -Superintendent's authorisation to use borrow site and deeming the material suitable for use.
3.Excavate and fill			
	H.Check levels	Superintendent's Release of Hold Point 2.6For unpaved areas level + or - 10 mm for highway verges otherwise + or - 50 mm	-One day prior to reaching subgrade level notify Superintendent.

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ITP (Job): 2-01 1011 SW Lines

ITP Template : PT 3-02 Stormwater Lines

ITP No. : 1158

Process Step	Verification Point	Criteria	Details
	A.Work Method Statement	Work Method Statement available	
1.Setting out			
	B.Confirm setting out	Marked locations and levels to drawings.Superintendent's release of Hold Point 3.1	At least 1 working day prior to start of each trench provide notification that trench alignment set out and verification that levels of existing crossover and connection points will allow construction as specified.
2.Excavate			
	C.Safety Check	Excavation fenced.	
	D.Inspect trench foundation	Foundation material suitable.Superintendent's release of Hold Point 3.2	At least 1 working prior to placement of bedding provide notification that foundation of trench will be ready for inspection
3.Place bedding			
4.Lay and joint pipe			
	E.Check pipe installation	Superintendent's Release of Hold Point 3.3 - pipe installation is per design. Stormwater size, type and line level to drawings.	Superintendent's Release of Hold Point 3.3, pipe installation is as per design.
5.Place and compact overlay material			
	F.Check overlay zone	300 mm depth over pipe Compaction as specified, ie under roads 70% DI for bedding or 90% MMDD for subbase, elsewhere 90% MMDD Material as specified, ie under roads etc bedding material or subbase, elsewhere suitable spoil.	Reference: Std Spec CI 3.03.8 (i) Testing frequency: 1 test per 300 m
6.Backfill to subgrade level			
	G.Check backfill	Ensure that 300mm cover is obtained	Aus-Spec C222.13
7.Final Inspection			
	H.Final inspection	Lines completed, cleaned out and acceptable for handover Superintendent's acceptance received	

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ITP (Job): 3-01 1011 P'ment Construction

ITP Template : PT 3-08 Pavement Construction (Excluding Surfacing

ITP No. : 1160

Process Step	Verification Point	Criteria	Details
	A.Pavement Materials	Pavement materials comply with specified requirements	At least three working days before each granular pavement material is to be used submit all test results demonstrating conformance of materials as per Aus Spec CQS-B6
	B.Work Method Statement(s)	Work Method Statement available	
1.Setting out and installation of environmental cont			
	C.Confirm setting out		
2.Prepare subgrade			
	D.Subgrade Ready	Sueperintendent's release of Hold Point 2.6 received - Subgrade Ready Density Test \geq 95% No foreign material on top of subgrade No ruts CBR \geq 5%	Density Test Frequency - 1/500m ² - A total of 6 Tests per layer Proof roll with full watercart, ensure no deflection CBR test 1/800m ² , total of 2 tests per layer
3.Place and compact select fill			
	E.Check Select Fill Material Layer	Compaction $>$ 97% MMDD No segregation of materials Superintendent's release of Hold Point 2.8	At least one day before overlay of layer submit all test results demonstrating conformance of layer for material properties, compaction, level, surface trim and width. Density test per 500m ² - 6 Tests per layer Proof roll with full water cart - No deflection
4.Place and compact subbase			
	F.Check Subbase Layer	Compaction $>$ 97% No segregation of materials Superintendent's release of Hold Point 2.8	At least one day before overlay of layer submit all test results demonstrating conformance of layer for material properties, compaction, level, surface trim and width. Density test per 500m ² - 6 Tests per layer Proof roll with full water cart - No deflection
5.Place and compact base			
	G.Check Base Layer	Compaction for roads 97% MMDD No segregation of materials	At least one day before overlay of layer submit all test results demonstrating conformance of layer for material properties, compaction, level, surface trim and width. Density test per 500m ² - 6 Tests per layer Proof roll with full water cart - No deflection

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ITP (Job): 3-02 P'ment Bitumen Sealing

ITP Template : PT 3-09 Pavement Prime/Primer Seal/Bitumen Sealing

ITP No. : 1161

Process Step	Verification Point	Criteria	Details
1.Place aggregates in designated stockpiles			
	A.Aggregate materials	Aggregates comply with AS2758.2, Superintendent's Release of Hold Point 4.1 Superintendent's release of Hold Point 4.4	Reference: Aus Spec C244-Sprayed Bituminous Surfacing At least three working days prior to proposed sealing submit all test results etc demonstrating conformance of materials, including NATA laboratory certificates no more than three months old for each nominal size/class of aggregate, source of aggregate and geological details, plant information and details of winning and manufacturing materials and evidence that source and methods proposed are adequate for quality and quantity of aggregate required.
2.Prepare pre-coated aggregates			Precoating as per Aus Spec C244.1 Stockpiles covered if rain imminent.
	B.Check Design	Superintendent's release of Hold Point 4.1 obtained	At least two working days before spraying submit all designs, test results certificates and other information that demonstrates conformance with the Specification requirements. This shall include: - Details to be provided in addition to design sheets - Certification nominated materials meet requirements - Test results for all materials - Aggregate source, geological type, nominated gradings, ALD - Pre-coat agent and bitumen adhesion agent, proportions, manufacturer - Bitumen refinery source, and certification of compliance with AS 2008 and this specification - Cutback bitumen refinery source of bitument, type of cutter, source of cutter, cutter oil fraction, certificate of compliance to AS 2157 or AS 2008, and this specification.
	C.Work Method Statement(s)	As applicable Material safety Data Sheets should be available	? As applicable Material safety Data Sheets should be available
	D.Confirm application rates	Superintendent's release of Hold Point 4.2 obtained. Surface is ready to be sprayed	Aus Spec C244.14 - Application Rates
	E.Check spraying conditions	P'ment temperature to be at or greater than 10 degrees C for at least an hour before	Reference: Aus Spec C244.16 Temperature Weather conditons

Process Step	Verification Point	Criteria	Details
		commencement of spraying and does not fall below 10degrees during spraying	
3.Erect any required Temporary Traffic Management an			
	F.Check ready for spraying	Ensure that all necessary precautions to prevent primer, primerbinder, binder, aggregate or other material used on the work from entering or adhering to gratings, hydrants, etc.	Reference: Aus Spec C244.21
4.Carry out spraying and, as applicable, apply aggre			
	G.Monitoring testing	Materials comply with specified requirements	As per Aus-Spec C244.28
	H.Final inspection	No excess of binder No loose aggregate, no stripping and even cover	Reference: Aus Spec C244.19

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ITP (Job): 4-01 1011 Sign Installation Line Marking

ITP Template : PT 3-14 Preparation for TCD Installation

ITP No. : 1162

Process Step	Verification Point	Criteria	Details
	A.Work Method Statement(s)	Work Method Statement(s) available	
1.As applicable sweep work area			
	B.Work area clean	Work area clean for installing line marking, etc	
2.Setting out and installation of environmental cont			
	C.Check setting out	Type and location to drawings	At least two days prior to start of roadmarking provide notification that road marking works have been marked out on site.
	G.Material Conformance	Superintendent's Release of Hold Point 5.1 - Test results on quality of materials	Reference: C261.05
3.Line Marking			As per Aus-Spec C261
	E.Raised Pavement Markers	Markers installed as per design	As per Aus Spec C261.22
4.Sign Installation			
	F.Excavation for signs		At least one working day before excavation provide notice that sign locations pegged.
	H.Install sign/post concrete footing		Reference C262.15
	I.Check installation		As per C 262.16
5.Clean up and final inspection			
	J.Final Inspection		Signs up as per drawings, inspection by Superintendent
	D.Line marking as per design	Lines marked as per design	

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ITP (Job): 5-01 1011 Topsoiling Landscaping

ITP Template : PT 2-02 Topsoiling

ITP No. : 1166

Process Step	Verification Point	Criteria	Details
	A.Check stockpiled topsoil for use for dryland grass	Superintendents release of Hold point 9.1 obtained	- Reference C273.04 - At least on working day prior to us of stockpiled topsoil notify Superintendent of intention.
1.Spread and lightly compact topsoil			
	B.Check placed topsoil	All areas covered and lightly compacted Level flush with hard surrounds Specified depths achieved, ie 200 mm for town parks and high use irrigated areas, 100 mm for dryland grassing Surface smooth and free from lumps and stones	- Reference Aus Spec C273
2.Apply bitumen and straw mulching			
	C.Check mulching	Twine and surplus straw removed Full and even coverage Any overspray cleaned up Adequate bitumen	Reference C273.07
	D.Fencing		Erect fencing as per design

