



mainroads
WESTERN AUSTRALIA

SPECIFICATION 301

VEGETATION CLEARING AND DEMOLITION

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REVISION REGISTER			
Clause Number	Description of Revision	Authorised By	Date
Whole Document	Major revision – refer to D19#491084	ME	21/10/2019
301.07.2	Engagement of environmental specialist	PDERS	26/08/2013
301.27.9	Amended		
Guidance Notes	Amended		
301.02	“Health Pesticide Regulations 1956 added to ‘References’	LA	14/06/2007
301.07	Amended		
301.08	New clause added		
Annexure 301A	Table 301A.4 amended		
Guidance Notes	Note 12 amended		
Whole Document	Complete revision of Issue 4.2 to new format	MCP	01/08/2006

CONTENTS

Clause	Page No
GENERAL	4
301.01 Scope	4
301.02 References	4
301.03 Definitions.....	4
301.04 – 301.10 NOT USED	5
PRE-CLEARING ACTIVITIES	6
301.11 Data Requirements	6
301.12 Pre-Clearing Process	7
CLEARING ACTIVITIES	8
301.13 Clearing Works	8
301.14 Mulching	9
301.15 Topsoil Activities.....	9
301.16 As Constructed Vegetation Clearing Area Data	10
DEMOLITION ACTIVITIES	10
301.17 Demolition	10
301.18 Damage to Vegetation.....	11
301.19 – 303.80 NOT USED	11
AS BUILT AND HANDOVER REQUIREMENTS	11
301.81 As Constructed Information	11
301.82 – 301.90 NOT USED	11
ANNEXURE 301A	12
Data Requirements.....	12
ANNEXURE 301B	24
Demolition Requirements	24
ANNEXURE 301C	25
Damage Costs	25

GENERAL

301.01 SCOPE

1. The work under this specification consists of vegetation clearing, treatment of cleared vegetation and associated material and demolition required to undertake the work under the Contract. It specifically excludes the demolition or dismantling of bridges and associated structures which is addressed in Specification 803.

301.02 REFERENCES

1. Australian Standards, MAIN ROADS Western Australia Standards and MAIN ROADS Western Australia Test Methods are referred to in abbreviated form (e.g. AS 1234, Digital Ground Survey Standard 67-08-43 or WA 123).

MAIN ROADS Specifications

Specification 201	QUALITY SYSTEMS
Specification 203	OCCUPATIONAL HEALTH AND SAFETY
Specification 204	ENVIRONMENTAL MANAGEMENT
Specification 302	EARTHWORKS
Specification 303	MATERIAL AND WATER SOURCES
Specification 304	LANDSCAPING AND REVEGETATION
Specification 304	REVEGETATION
Specification 304	REHABILITATION OF DISTURBED AREAS
Specification 404	CULVERTS
Specification 405	DRAINAGE STRUCTURES
Specification 803	DISMANTLING AND DEMOLITION

Author's Note: Please select the relevant Specification 304 in consultation with the Environmental Officer and delete all other versions.

301.03 DEFINITIONS

1. **Clearing** of vegetation means any act that results in killing, destroying, removing or substantially damaging living or dead native vegetation.

Clearing

- | | | |
|-----|--|---|
| 2. | The Limits of Vegetation Clearing are as set out in Table 301A.1. | <i>Limits of Vegetation Clearing</i> |
| 3. | The Pegged Vegetation Clearing Area means the area that is delineated on Site. | <i>Pegged Vegetation Clearing Area</i> |
| 4. | The As Constructed Vegetation Clearing Area means the total area cleared as measured in accordance with 301.16. | <i>As Constructed Vegetation Clearing Area</i> |
| 5. | Topsoil means the biologically active upper soil layer used for revegetation and landscaping, the depth of which varies with soil type and location. | <i>Topsoil</i> |
| 6. | Suitable Topsoil means the Topsoil from areas of native vegetation that is free from (or containing few) weeds, and containing a broad representation of native plant species. | <i>Suitable Topsoil</i> |
| 7. | Partially Degraded Topsoil means the Topsoil from areas of native vegetation containing a moderate infestation of weeds. Trees, shrubs and groundcovers are present, however the majority of locally occurring plant species are absent. | <i>Partially Degraded Topsoil</i> |
| 8. | Degraded Topsoil means the Topsoil from areas associated with pasture land or farmland that is dominated by weeds and/or grasses and is unsuitable for use in revegetation and landscaping. | <i>Degraded Topsoil</i> |
| 9. | Mulch refers to any chipped vegetation, composted organic material, or inorganic material such as crushed rock, coarse aggregate, river pebbles or pea gravel, spread as a soil surface protection measure and/or decorative surface treatment. | <i>Mulch</i> |
| 10. | Spoil is as defined in Specification 302. | <i>Spoil</i> |
| 11. | Suitable Spoil is defined as material deemed unsuitable, surplus and/or oversize for the Works, but suitable for use in revegetation and landscaping. Suitable Spoil must be approved by the Superintendent before use. | <i>Suitable Spoil</i> |
| 12. | Demolition means the removal of Redundant Features and Reused Features from the Site. | <i>Demolition</i> |
| 13. | Redundant Features includes all debris and material resulting from demolition or clearing that has not been identified for use in the Works that must be disposed of off-site to an authorised waste disposal site. | <i>Redundant Features</i> |
| 14. | Reused Features are those features that have the potential to be reused or recycled. | <i>Reused Features</i> |

301.04 – 301.10 NOT USED

PRE-CLEARING ACTIVITIES

301.11 DATA REQUIREMENTS

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|--|---|
| 1. The Limits of Vegetation Clearing data format to be submitted to the Contractor and the required Clearing treatments are detailed in Table 301A.1. | <i>Limits of Vegetation Clearing Data</i> |
| 2. The Contractor is to confirm the Limits of Vegetation Clearing are adequate to accommodate the earthworks, temporary storage areas, drains, levees, guidebanks, stockpiling windrows, temporary access tracks, campsites, water supply points, site offices and other areas on the Site. | <i>Confirm Limits of Vegetation Clearing</i> |
| 3. The data for the Pegged Vegetation Clearing Area must be submitted to the Superintendent in the format detailed in Table 301A.2. | <i>Pegged Vegetation Clearing Area</i> |
| 4. The format for the Topsoil data to be submitted to the Contractor is detailed in Table 301A.3. | <i>Topsoil Data</i> |
| 5. Topsoil removal sites nominated by the Principal for the removal of Topsoil for use in the Works are documented in Table 301A.3. If Topsoil removal sites are not nominated in Table 301A.3, the Contractor must submit the location of nominated Topsoil removal sites to the Superintendent for approval. | <i>Nominated Topsoil Removal Sites</i> |
| 6. Stockpile sites nominated by the Principal for the Works are documented in Table 301A.4. If stockpile sites are not nominated in Table 301A.4, the Contractor must submit the location of nominated stockpile sites for the storage of Mulch and Topsoil to the Superintendent for approval. | <i>Nominated Stockpile Sites</i> |
| 7. Spoil disposal sites nominated by the Principal for the Works are documented in Table 301A.5. If Spoil disposal sites are not nominated in Table 301A.5, the Contractor must submit the location of nominated Spoil disposal sites to the Superintendent for approval. | <i>Nominated Spoil Disposal Sites</i> |
| 8. The location of fauna habitat logs to be retained and stored is documented in Table 301A.6. | <i>Fauna Habitat Logs</i> |
| 9. Vegetation to be identified and tagged by the Contractor for transplanting is documented in Table 301A.7. | <i>Transplanted Vegetation</i> |
| 10. The locations of timber for milling are documented in Table 301A.8. | <i>Timber for Milling</i> |
| 11. The locations of items requiring Demolition (Redundant Features or Reused Features) are nominated at Annexure 301B. | <i>Locations of Demolition</i> |
| 12. Special Environmental Areas requiring protection are nominated in Specification 204 and Specification 303. | <i>Special Environmental Areas</i> |
| 13. Zones that require pre-clearing weed control prior to Clearing are nominated in Specification 204 and Specification 303. | <i>Weed Control</i> |

14. Dieback zones and their required management actions are nominated in Specification 204 and Specification 303. **Dieback Zones**

301.12 PRE-CLEARING PROCESS

1. Prior to the commencement of any Clearing operations, the Contractor must certify for the Superintendent’s verification and approval that the following activities have been completed: **HOLD POINT**

a) The pegging of Limits of Vegetation Clearing has been undertaken in accordance with Specification 204B and Specification 303. **Pegging Details**

b) The Pegged Vegetation Clearing Area does not exceed the Limits of Vegetation Clearing. **Limits of Clearing**

c) Mature trees have been conserved as far as practicable. **Mature Trees**

d) The pegging of special environmental areas has been undertaken in accordance with Specification 204B and Specification 303C. **Special Environmental Areas**

e) The Pegged Vegetation Clearing Area data and pegged Special Environmental Area data has been sent to the Superintendent for approval at least five (5) days prior to clearing commencing.

f) All pre-clearing weed control has been undertaken in accordance with Specification 204 and Specification 303. **Weed Control**

g) All pre-clearing fauna operational controls have been undertaken in accordance with Specification 204B and Specification 303C. **Fauna**

h) All pre-clearing dieback operational controls have been undertaken in accordance with Specification 204B and Specification 303C. **Dieback**

i) Suitable and unsuitable Topsoil zones have been identified in accordance with Table 301A.3. **Topsoil**

j) Vegetation and Topsoil stockpile locations that meet the requirements of Specification 204B and Specification 303C have been approved by the Superintendent. **Stockpiles**

k) The locations of items to be demolished have been marked on Site. **Demolition**

l) The locations of culverts have been verified in accordance with Specification 404. **Culverts**

- | | |
|--|-------------------------------|
| m) Waste disposal locations are in accordance with Specification 204B. | Waste Disposal |
| n) Clearing required within three (3) metres (or the distance nominated by the Service Provider) of any service has been identified. | Services |
| o) All Clearing machinery is compliant with the controls in Specification 204 and Specification 303. | Machinery and Vehicles |

CLEARING ACTIVITIES

301.13 CLEARING WORKS

- | | |
|---|--|
| <p>1. All Clearing must be undertaken in accordance with Specification 204 and Specification 303. Clearing activities includes, but is not limited to:</p> <ul style="list-style-type: none"> a) the felling, cutting and removal of all trees standing or fallen; b) severing or ringbarking trunks or stems; c) the removal of rubbish and debris; d) the removal of surface boulders and boulders dislodged during vegetation removal; and e) the grubbing out of all stumps and roots larger than 80mm in diameter or with any dimension greater than 300mm, to a depth of 300mm below either the existing surface or the finished subgrade surface, whichever is the lower. | Clearing |
| <p>2. All Clearing must be undertaken in such a way to allow fauna to move out of the Clearing area.</p> | Fauna |
| <p>3. The Contractor must take all necessary precautions to prevent damage to existing services as a result of Clearing. If necessary, the Contractor must only use hand-held equipment and install additional protective measures to prevent damage. Proposed work processes and protective measures must be approved by the Superintendent prior to any Clearing operations.</p> | Protection of Existing Services |
| <p>4. Tree roots from retained vegetation must be pruned in accordance with accepted industry standards to ensure clean cuts to roots to minimise entry of disease to the cut root and prevent tree damage.</p> | Retained Vegetation |
| <p>5. When cutting tree roots consideration must be given to the structural integrity of the tree.</p> | Tree Roots |
| <p>6. Burning of cleared vegetation or burning within the road reserve is not permitted under any circumstance.</p> | Fire Ban |

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|---|---|
| <p>7. Timber species that have been identified for milling within the Limits of Vegetation Clearing must be felled and trimmed of branches in accordance with the timber milling industry standards and practice. The trunks must be stacked in a neat manageable stockpile at the location identified in Table 301A.4.</p> | <p><i>Millable Timber</i></p> |
| <p>8. All tree trunks nominated for salvage as fauna habitat logs must be cut into transportable logs and stockpiled at the location identified in Table 301.4.</p> | <p><i>Tree Trunks</i></p> |
| <p>9. All vegetation nominated for transplanting in Table 301A.7 must be managed in accordance with the requirements of Specification 304.</p> | <p><i>Transplanting</i></p> |
| <p>10. The Contractor must minimise vegetation clearing and area of ground disturbance as far as practicable by utilising existing cleared areas where possible.</p> | <p><i>Minimise Vegetation Clearing</i></p> |
| <p>11. The Contractor must take all precautions necessary to prevent damage to all vegetation tagged for retention and protection within the Limits of Vegetation Clearing. If necessary the Contractor must install fence palings or other protective measures around the trunks of trees tagged for retention to prevent damage. Protective measures must be approved by the Superintendent prior to any Clearing operations.</p> | <p><i>Protective Measures</i></p> |

301.14 MULCHING

- | | |
|---|-------------------------------|
| <p>1. Cleared vegetation suitable for mulching is to be chipped into organic Mulch material. The average size of Mulch material must be between 15mm to 50mm, with no individual pieces greater than 100mm. Mulch material must not contain any weed propagules, grass stolens or other extraneous material, and must be free from all matter and substances toxic to plant growth.</p> | <p><i>Mulching</i></p> |
|---|-------------------------------|

301.15 TOPSOIL ACTIVITIES

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|--|---|
| <p>1. Topsoil must only be removed to the depth specified in Table 301A.3. If a Topsoil depth is not specified, a nominal depth of 75mm applies, unless otherwise approved by the Superintendent.</p> | <p><i>Topsoil Depth</i></p> |
| <p>2. The Contractor must ensure that appropriate plant and equipment are utilised by competent operators to ensure that the Topsoil and subsoil layers are not mixed and the subgrade integrity is not affected during the stripping and stockpiling process.</p> | <p><i>Topsoil and Subsoil Layers</i></p> |
| <p>3. Topsoil to be windrowed must be stripped to the nominated depth and bladed outwards away from the centreline of the alignment or from other areas of excavation. Topsoil must be windrowed to the downstream side of the area wherever practical to avoid a dam effect for surface drainage.</p> | <p><i>Windrowed Topsoil</i></p> |

301.16 AS CONSTRUCTED VEGETATION CLEARING AREA DATA

1. After completion of Vegetation Clearing, removal of Topsoil, and where applicable after removal of the existing seal and/or existing pavement, and after compaction of the embankment foundation but before the commencement of any other earthworks or culvert work, the Superintendent will undertake a digital ground survey in accordance with Digital Ground Survey Standard 67-08-43 to capture the As Constructed Vegetation Clearing Area data.

Digital Ground Survey

DEMOLITION ACTIVITIES

301.17 DEMOLITION

1. Existing features must be demolished either to the extent as shown on the drawings or as otherwise detailed in Annexure 301B. Demolition work includes the removal of existing non-vegetative material such as but not limited to kerbing, pipes, rubbish, site debris, and the like.

Demolition Work

2. The Demolition of culverts must be undertaken in accordance with Specification 404.

Culverts

3. The Demolition of drainage structures must be undertaken in accordance with Specification 405.

Drainage Structures

4. The Demolition or dismantling of existing bridges and associated highway structures must be undertaken in accordance with Specification 803.

Existing Bridges

5. Features or assets identified as containing asbestos or potentially containing asbestos are nominated in Specification 203.

Features Containing Asbestos

6. The Demolition, modification, removal and disposal of features or assets containing or potentially containing asbestos must be managed in accordance with Specification 203 and relevant OSH Legislation.

Treatment of Features Containing Asbestos

7. During Demolition care must be taken so as not to damage surrounding works and existing retained features. Any such damage must be made good by the Contractor and at no cost to the Principal.

8. Any damage to private property, or to a service or facility, that is caused by the Contractor or the employees or agents of the Contractor, must be rectified by the Contractor in accordance with the requirements of the owner of that property, service or facility, and at no cost to the Principal.

9. All debris and material resulting from Demolition or Clearing that has not been identified for use in the Works or Reuse must be disposed of at an authorised waste disposal site.

Other Material

10. All existing features identified as Reused Features must be stored in accordance with Annexure 301B.

Reused Feature

301.18 DAMAGE TO VEGETATION

1. The Contractor must take all necessary precautions to prevent damage to any vegetation identified for protection and/or transplanting within the Limits of Vegetation Clearing, and/or any vegetation outside the Limits of Vegetation Clearing.

2. Any damage to vegetation identified for protection and/or transplanting within the Limits of Vegetation Clearing, and/or any vegetation outside the Limits of Vegetation Clearing caused by the Contractor, or the employees or agents of the Contractor, in any manner whatsoever, constitutes a non-conformance in accordance with Specification 201.

Non-conformance

3. If damage has been caused to any vegetation identified for protection and/or transplanting within the Limits of Vegetation Clearing, and/or any vegetation outside the Limits of Clearing, the Contractor must:

a) take all necessary actions to prevent any further damage;

Prevention

b) notify the Superintendent of the damage, and report as an Environmental Incident in accordance with Specification 204; and

Notification

c) pay damages to the Principal in accordance with the rates nominated in Specification 301C for the area damaged as measured by the Superintendent.

Application of Damages

301.19 – 303.80 NOT USED

AS BUILT AND HANDOVER REQUIREMENTS

301.81 AS CONSTRUCTED INFORMATION

1. The As Constructed Vegetation Clearing Area Data as detailed in Table 301A.9 must be submitted to the Superintendent prior to Practical Completion.

301.82 – 301.90 NOT USED

ANNEXURE 301A

DATA REQUIREMENTS

TABLE 301A.1 LIMITS OF VEGETATION CLEARING

Zone	Location	Limits of Vegetation Clearing Data Format <small>(e.g. Drawing Number, Shapefile, Clearing Map, Already Pegged On Site)</small>	Limits of Vegetation Clearing Area <small>(i.e. m2 or Ha)</small>	Treatment <small>(e.g. Mulched, removed, spoil, waste disposal)</small>	Vegetation Storage Location <small>(i.e. Principal Nominated / Contractor Nominated)</small>	Waste Location <small>(i.e. Principal Nominated / Contractor Nominated)</small>
Accommodation of Earthworks						
Camp/Site Office						
Temporary Access Tracks / Side Tracks						
Water Extraction and/or Storage Sites						
Fencing						
Culverts and Associated Drainage						
Guidebanks						

Zone	Location	Limits of Vegetation Clearing Data Format (e.g. Drawing Number, Shapefile, Clearing Map, Already Pegged On Site)	Limits of Vegetation Clearing Area (i.e. m2 or Ha)	Treatment (e.g. Mulched, removed, spoil, waste disposal)	Vegetation Storage Location (i.e. Principal Nominated / Contractor Nominated)	Waste Location (i.e. Principal Nominated / Contractor Nominated)
Stockpiling Windrows						
Material Source						
Turnaround Locations						
Stockpile Storage						
Revegetation						
Drains						
Levees						

TABLE 301A.2 PEGGED VEGETATION CLEARING AREA

Zone	Location	Pegged Vegetation Clearing Data Format (e.g. Drawing Number, Shapefile, Clearing Map)
Accommodation of Earthworks		
Camp / Site Office		
Temporary Access Tracks / Side Tracks		
Water Extraction and/or Storage Sites		
Fencing		
Culverts and Associated Drainage		
Guidebanks		
Stockpiling Windrows		
Material Source		
Turn around locations		
Stockpile Storage		
Revegetation		
Drains		
Levees		

TABLE 301A.3 TOPSOIL

Zone	Location	Topsoil Type (e.g. Suitable, Partially Degraded, Degraded)	Data Format (e.g. Drawing Number, Shapefile, Map)	Depth of Topsoil Removal	Treatment (e.g. Stockpiled, Windrowed, Waste)	Storage Location (e.g. Principal Nominated / Contractor Nominated)	Waste Location (e.g. Principal Nominated / Contractor Nominated)
Accommodation of Earthworks							
Camp/Site Office							
Temporary Access Tracks / Side Tracks							
Water Extraction and/or Storage Sites							
Fencing							
Culverts and Associated Drainage							
Guidebanks							
Stockpiling Windrows							
Material Source							

Zone	Location	Topsoil Type (e.g. Suitable, Partially Degraded, Degraded)	Data Format (e.g. Drawing Number, Shapefile, Map)	Depth of Topsoil Removal	Treatment (e.g. Stockpiled, Windrowed, Waste)	Storage Location (e.g. Principal Nominated / Contractor Nominated)	Waste Location (e.g. Principal Nominated / Contractor Nominated)
Turnaround Locations							
Stockpile Storage							
Revegetation							
Drains							
Levees							

TABLE 301A.4 PRINCIPAL NOMINATED STOCKPILE LOCATIONS

Stockpile Type	Source (e.g. from what zone)	Principal Nominated Stockpile Location Data Format (e.g. Drawing Number, Shapefile, Clearing Map, GPS)
Cleared Vegetation		
Mulched Vegetation		
Suitable Topsoil		
Partially Degraded Topsoil		
Degraded Topsoil		
Surplus Materials to be used in Revegetation (Suitable Spoil)		

TABLE 301A.5 PRINCIPAL NOMINATED SPOIL DISPOSAL LOCATIONS

SPOIL TYPE	Principal Nominated Spoil Location Data Format (e.g. Drawing Number, Shapefile, GPS)	Principal Nominated Waste Location Data Format (e.g. Drawing Number, Shapefile, Clearing Map, Description)
Weed Infested Material		
Partially Degraded Topsoil		
Degraded Topsoil		
Contaminated Material		
Surplus Materials		

TABLE 301A.6 FAUNA HABITAT LOGS

LOCATION	AMOUNT	LOCATION DATA FORMAT (e.g. Drawing Number, Shapefile, Clearing Map)	STORAGE LOCATION DATA FORMAT

TABLE 301A.7 TRANSPLANTED VEGETATION LOCATIONS

LOCATION	AMOUNT	LOCATION DATA FORMAT (e.g. Drawing Number, Shapefile, Clearing Map)	STORAGE LOCATION DATA FORMAT

TABLE 301A.8 TIMBER FOR MILLING

LOCATION	VOLUME (m ³)	LOCATION DATA FORMAT (e.g. Drawing Number, Shapefile, Clearing Map)	STORAGE LOCATION DATA FORMAT

Author's Note: Please seek advice from Forrest Products Commission for timber requirements.

TABLE 301A.9 AS CONSTRUCTED VEGETATION CLEARING AREA

Zone	Location	As Constructed Vegetation Clearing Area Data Format (e.g. Drawing Number, Shapefile, Clearing Map)	Area of Clearing (Ha)
Accommodation of Earthworks			
Camp/Site Office			
Temporary Access Tracks / Side Tracks			
Water Extraction and/or Storage Sites			
Fencing			
Culverts and Associated Drainage			
Guidebanks			
Stockpiling Windrows			
Material Source			
Turnaround Locations			
Stockpile Storage			
Revegetation			
Drains			

Zone	Location	As Constructed Vegetation Clearing Area Data Format (e.g. Drawing Number, Shapefile, Clearing Map)	Area of Clearing (Ha)
Levees			

ANNEXURE 301C

DAMAGE COSTS

Table 301C.1 REINSTATEMENT RATES PER HECTARE

Damage costs are calculated by summing the total of the fixed and variable costs. The variable cost will be a proportionate amount of the cost per hectare for all events. The fixed cost is a one off cost per occurrence of damage during the contract.

Damage per Occurrence = total area damaged per occurrence x Variable Rate (A) + Fixed Rate (B)

Location of Damage	Variable Rate (A) Cost per Hectare of Damage	Fixed Rate (B) Cost per Occurrence
Metro / High-profile	\$85,000	\$108,000
In or adjoining to Environmentally Sensitive Area	\$77,000	\$120,000
Agricultural	\$25,600	\$69,000
Pastoral	\$11,700	\$88,000

Author's Note: Please select the relevant location/s of damage area in consultation with the Environmental Officer and delete all other locations.

SPECIFICATION AMENDMENT CHECKLIST

Specification Details: No: **301** Revision No: _____ Title: **VEGETATION CLEARING AND DEMOLITION**

Project Manager: Name: _____ Signature: _____ Date: _____

Checked By: Name: _____ Signature: _____ Date: _____

Contract No: _____ Contract Description: _____

ITEM	DESCRIPTION	SIGN OFF
<i>Note: All changes/amendments must be shown in Tracked Change mode until approved.</i>		
1.	Project Manager has reviewed Specification and identified Additions and Amendments.	
2.	CONTRACT SPECIFIC REQUIREMENTS addressed? – Contract specific materials/products/clauses added? (Refer Specification Guidance Notes for guidance).	
3.	Any unlisted Materials/Products proposed and approved by the Project Manager? – if “Yes” provide details at 15.	
4.	Standard Clauses amended? – MUST SEEK approval from Manager Contracts.	
5.	Clause deletions shown as ‘NOT USED’.	
6.	Appropriate INSPECTION & TESTING parameters included in Spec 201 (Test Methods, Minimum Testing Frequencies verified).	
7.	ANNEXURES completed (Refer Specification Guidance Notes).	
8.	HANDOVER and AS BUILT requirements addressed.	
9.	Main Roads QS has approved changes to SMM .	
10.	Project Manager certifies completed Specification reflects intent of the design.	
11.	Completed Specification – independent verification arranged by Project Manager	
12.	Project Manager’s review completed.	
13.	SPECIFICATION GUIDANCE NOTES deleted.	
14.	TABLE OF CONTENTS updated.	
15.	Supporting information prepared and submitted to Project Manager.	
Further action necessary:		

Signed: _____ (*Project Manager*) Date: _____