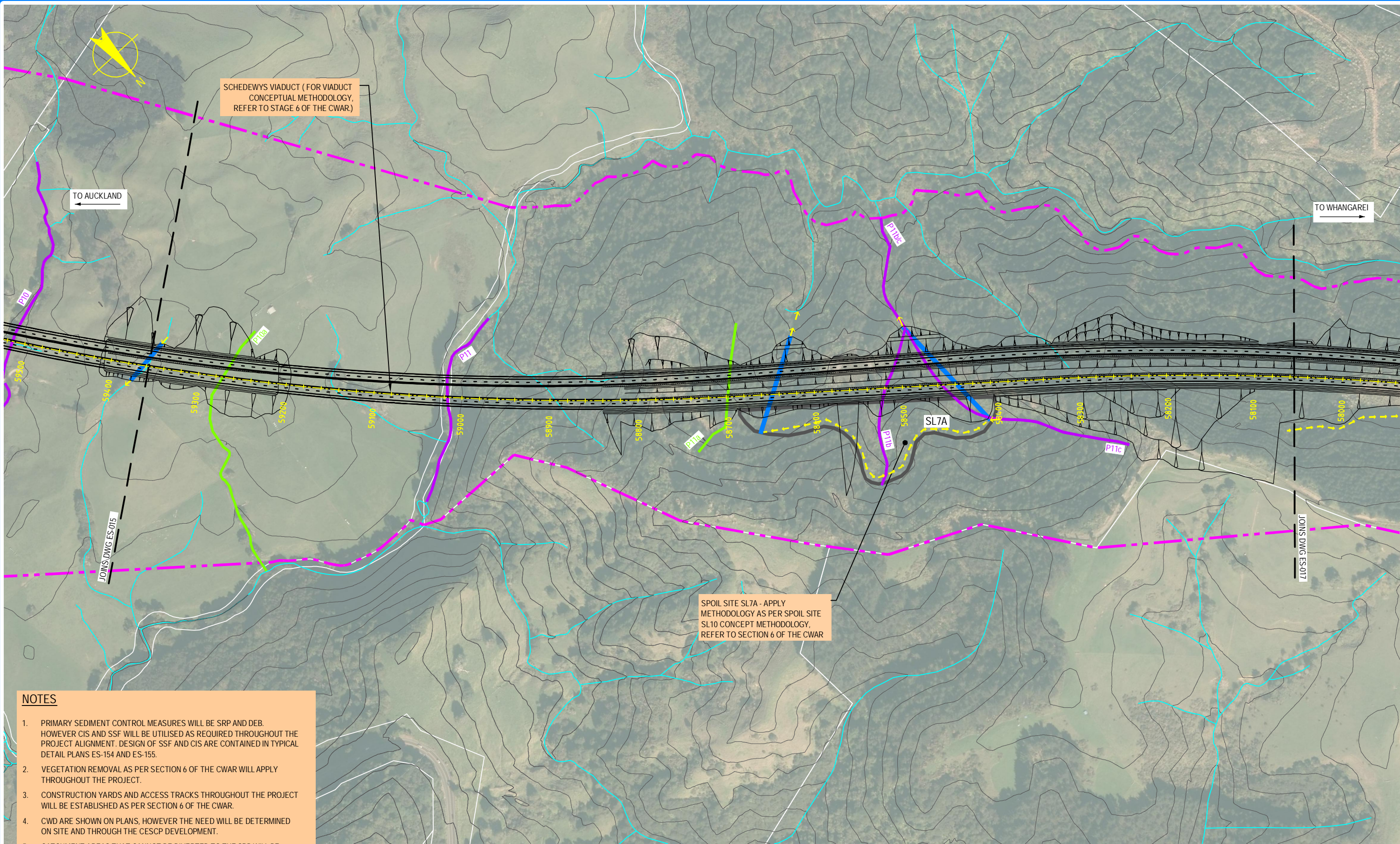


S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CADD Drawings\ES-016_ES-020.dwg Plot Date: 20 August, 2013 - 4:57 PM



NOTES

1. PRIMARY SEDIMENT CONTROL MEASURES WILL BE SRP AND DEB. HOWEVER CIS AND SSF WILL BE UTILISED AS REQUIRED THROUGHOUT THE PROJECT ALIGNMENT. DESIGN OF SSF AND CIS ARE CONTAINED IN TYPICAL DETAIL PLANS ES-154 AND ES-155.
2. VEGETATION REMOVAL AS PER SECTION 6 OF THE CWAR WILL APPLY THROUGHOUT THE PROJECT.
3. CONSTRUCTION YARDS AND ACCESS TRACKS THROUGHOUT THE PROJECT WILL BE ESTABLISHED AS PER SECTION 6 OF THE CWAR.
4. CWD ARE SHOWN ON PLANS, HOWEVER THE NEED WILL BE DETERMINED ON SITE AND THROUGH THE CSCP DEVELOPMENT.
5. CATCHMENT AREAS THAT CANNOT BE DIVERTED TO THE SRP WILL BE MANAGED THROUGH CIS, OR FURTHER SRP/DEB WILL BE ESTABLISHED.

SPOIL SITE SL7A - APPLY METHODOLOGY AS PER SPOIL SITE SL10 CONCEPT METHODOLOGY, REFER TO SECTION 6 OF THE CWAR

SCHEDWYS VIADUCT (FOR VIADUCT CONCEPTUAL METHODOLOGY, REFER TO STAGE 6 OF THE CWAR.)

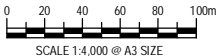
TO AUCKLAND

TO WHANGAREI

JOINS DWG ES-015

JOINS DWG ES-017

NOTE: FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING ES-001



0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D D. MGR	APP'D A. MGR	PURPOSE OF ISSUE / AMENDMENT



DISCLAIMER

The information shown on this drawing is solely for the purposes of supporting RMA applications for statutory approvals. All information shown is subject to review for compliance with approved consents and the outcomes of final design.

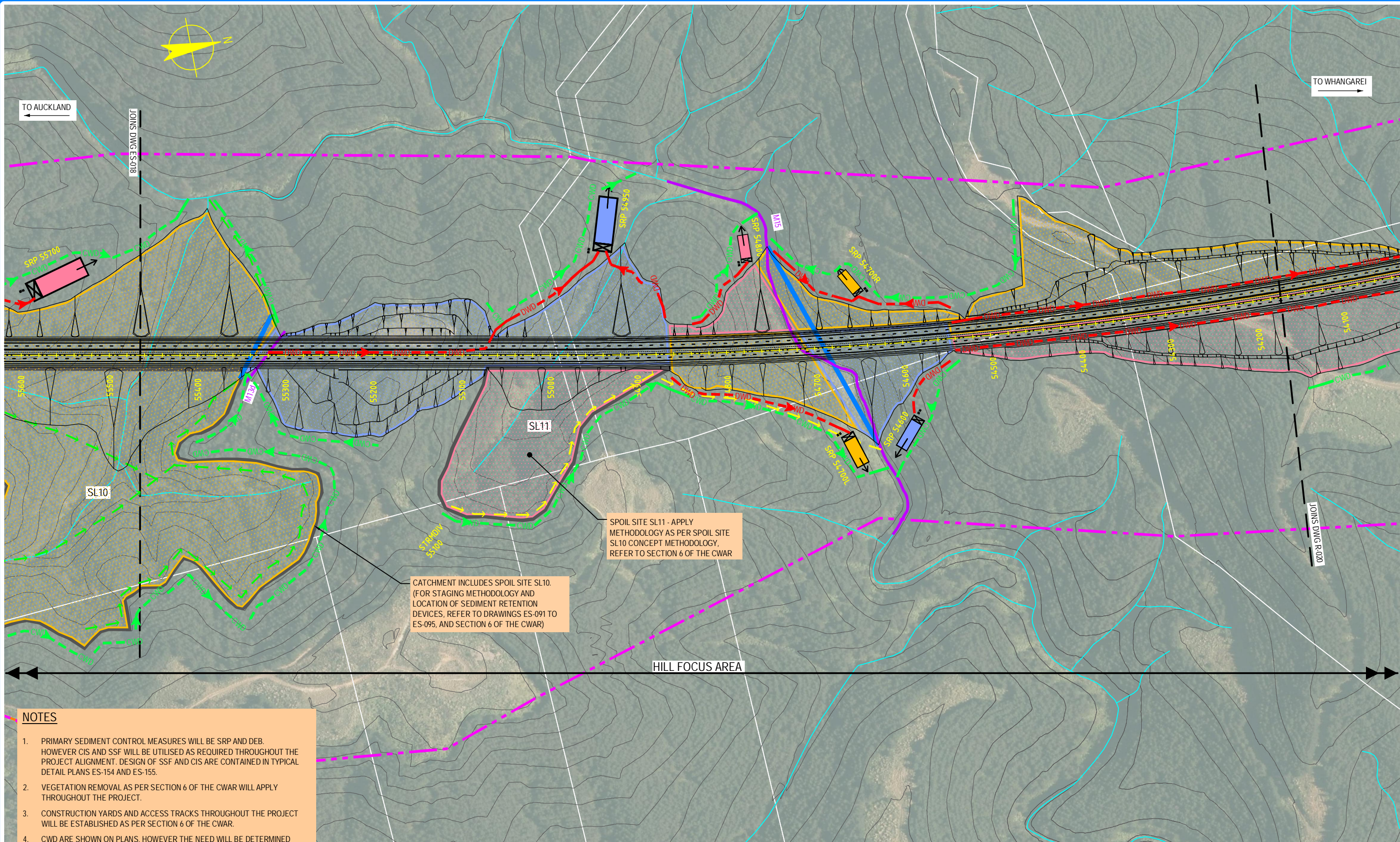
ARA TŪHONO - PŪHOI TO WELLSFORD
PŪHOI TO WARKWORTH - FOR RMA APPROVALS

DRAWN SP / AN	DRAFTING CHECK RS	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI
DESIGNED RS	DESIGN REVIEW GR		

CONSTRUCTION WATER MANAGEMENT
CONCEPT PLAN - 6 OF 15

SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-016	AMDT 0
-------------------	------------------------	-----------------------	-----------

S:\Further North - PAA\300 Design\300.5 Technical\01-Drawing Production\CAAD Drawings\ES-016_ES-020.dwg Plot Date: 20 August 2013 - 4:59 PM



NOTES

1. PRIMARY SEDIMENT CONTROL MEASURES WILL BE SRP AND DEB. HOWEVER CIS AND SSF WILL BE UTILISED AS REQUIRED THROUGHOUT THE PROJECT ALIGNMENT. DESIGN OF SSF AND CIS ARE CONTAINED IN TYPICAL DETAIL PLANS ES-154 AND ES-155.
2. VEGETATION REMOVAL AS PER SECTION 6 OF THE CWAR WILL APPLY THROUGHOUT THE PROJECT.
3. CONSTRUCTION YARDS AND ACCESS TRACKS THROUGHOUT THE PROJECT WILL BE ESTABLISHED AS PER SECTION 6 OF THE CWAR.
4. CWD ARE SHOWN ON PLANS, HOWEVER THE NEED WILL BE DETERMINED ON SITE AND THROUGH THE CESP DEVELOPMENT.
5. CATCHMENT AREAS THAT CANNOT BE DIVERTED TO THE SRP WILL BE MANAGED THROUGH CIS, OR FURTHER SRP/DEB WILL BE ESTABLISHED.

0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D MGR	APP'D A-MGR	PURPOSE OF ISSUE / AMENDMENT



DISCLAIMER

The information shown on this drawing is solely for the purposes of supporting RMA applications for statutory approvals. All information shown is subject to review for compliance with approved consents and the outcomes of final design.

ARA TŪHONO - PŪHOI TO WELLSFORD PŪHOI TO WARKWORTH - FOR RMA APPROVALS

DRAWN SP / AN	DRAFTING CHECK RS	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI
DESIGNED RS	DESIGN REVIEW GR		

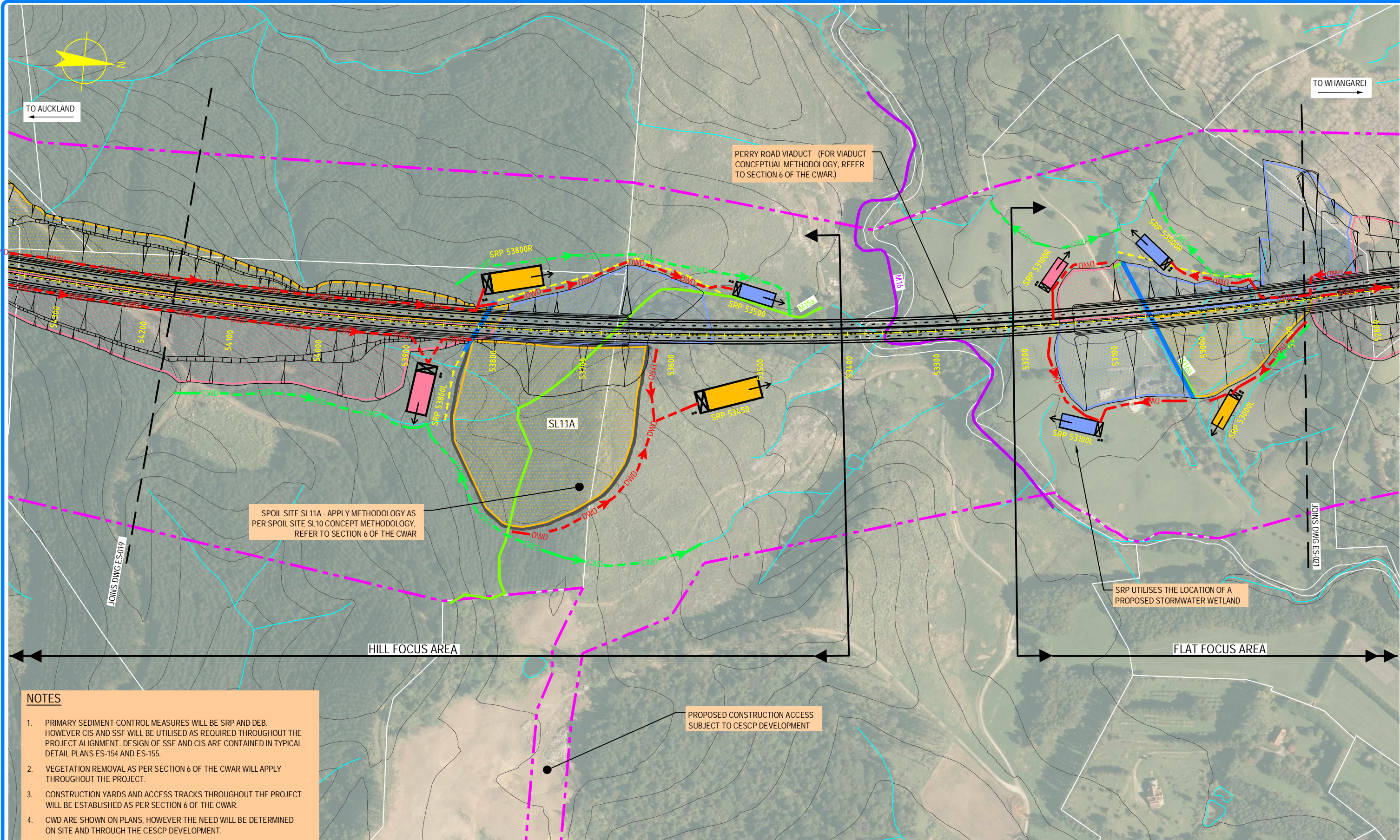
NOTE: FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING ES-001

0 20 40 60 80 100m
SCALE 1:4,000 @ A3 SIZE

CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN - 9 OF 15

SCALE AS SHOWN	CONTRACT No. PA3748	DRAWING No. ES-019	AMDT 0
-------------------	------------------------	-----------------------	-----------

S:\Further North - PAA\3300 Design\3300 5 Technical\01-Drawing Production\CADD Drawings\ES-016_ES-020.dwg Plot Date: 20 August 2013 - 4:59 PM



NOTES

1. PRIMARY SEDIMENT CONTROL MEASURES WILL BE SRP AND DEB. HOWEVER CIS AND SSF WILL BE UTILISED AS REQUIRED THROUGHOUT THE PROJECT ALIGNMENT. DESIGN OF SSF AND CIS ARE CONTAINED IN TYPICAL DETAIL PLANS ES-154 AND ES-155.
2. VEGETATION REMOVAL AS PER SECTION 6 OF THE CWAR WILL APPLY THROUGHOUT THE PROJECT.
3. CONSTRUCTION YARDS AND ACCESS TRACKS THROUGHOUT THE PROJECT WILL BE ESTABLISHED AS PER SECTION 6 OF THE CWAR.
4. CWD ARE SHOWN ON PLANS, HOWEVER THE NEED WILL BE DETERMINED ON SITE AND THROUGH THE CESP DEVELOPMENT.
5. CATCHMENT AREAS THAT CANNOT BE DIVERTED TO THE SRP WILL BE MANAGED THROUGH CIS, OR FURTHER SRP/DEB WILL BE ESTABLISHED.

NOTE: FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING ES-001

0 20 40 60 80 100m
SCALE 1:4,000 @ A3 SIZE

0	30/08/13	GR	MW	TI	ISSUE FOR NOR / CONSENT
AMD	DATE	DESIGN REVIEW	REV'D MGR	APP'D A-MGR	PURPOSE OF ISSUE / AMENDMENT



DISCLAIMER
The information shown on this drawing is solely for the purposes of supporting RMA applications for statutory approvals. All information shown is subject to review for compliance with approved consents and the outcomes of final design.

ARA TŪHONO - PŪHOI TO WELLSFORD PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN SP / AN	DRAFTING CHECK RS	REVIEWED DISCIPLINE MANAGER MW	APPROVED ALLIANCE MANAGER TI
DESIGNED RS	DESIGN REVIEW GR		

CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN - 10 OF 15			
SCALE AS SHOWN	CONTRACT No PA3748	DRAWING No ES-020	AMDT 0