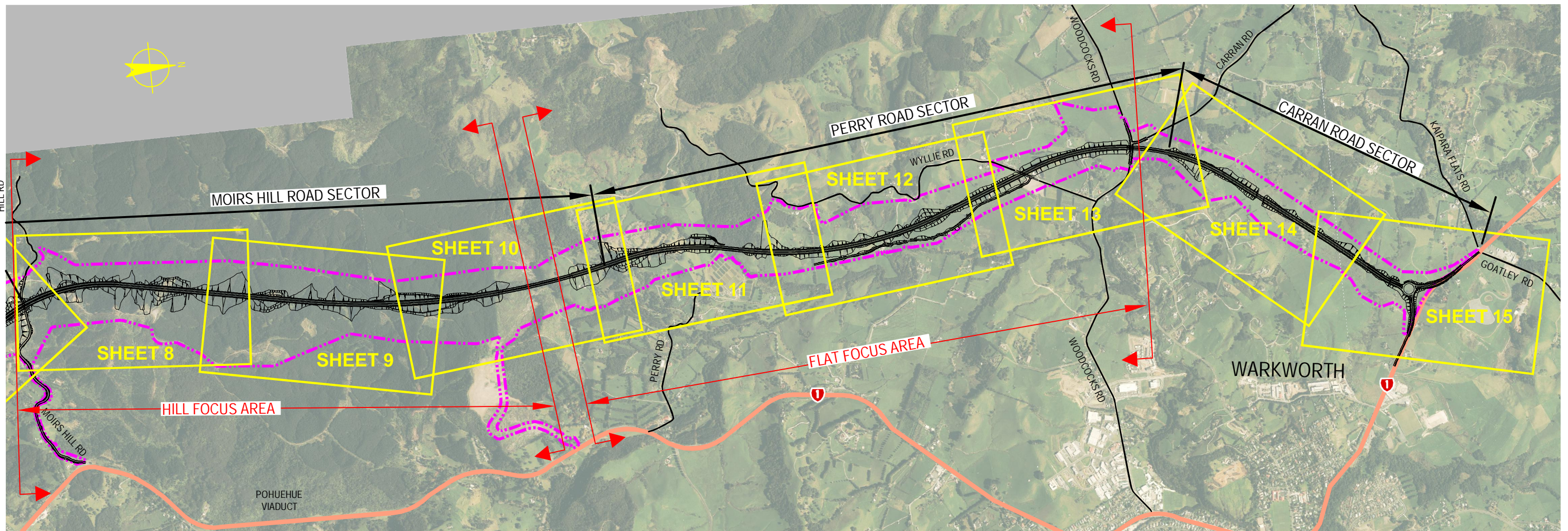
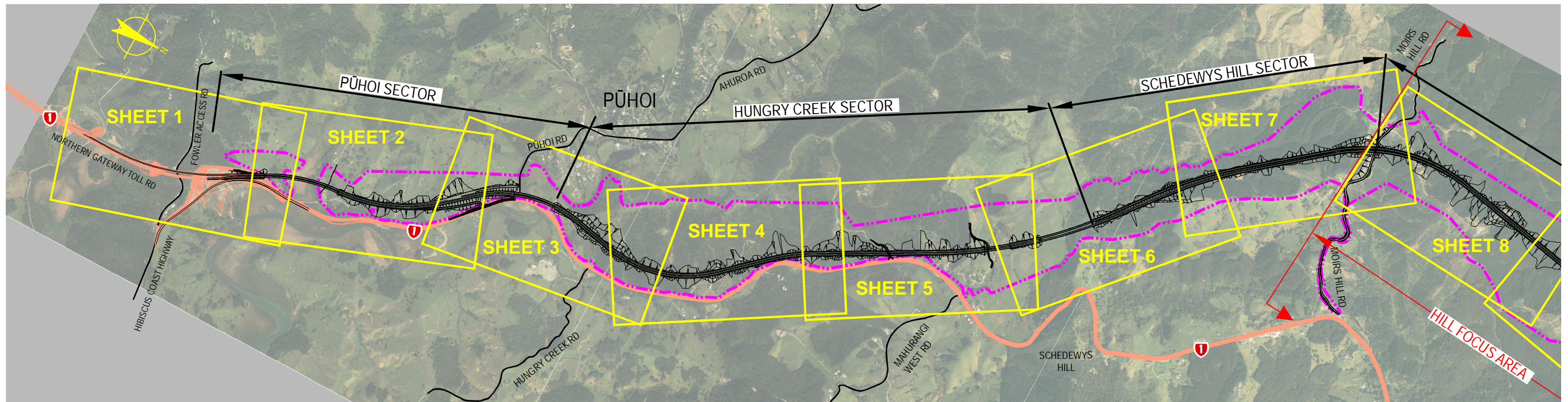


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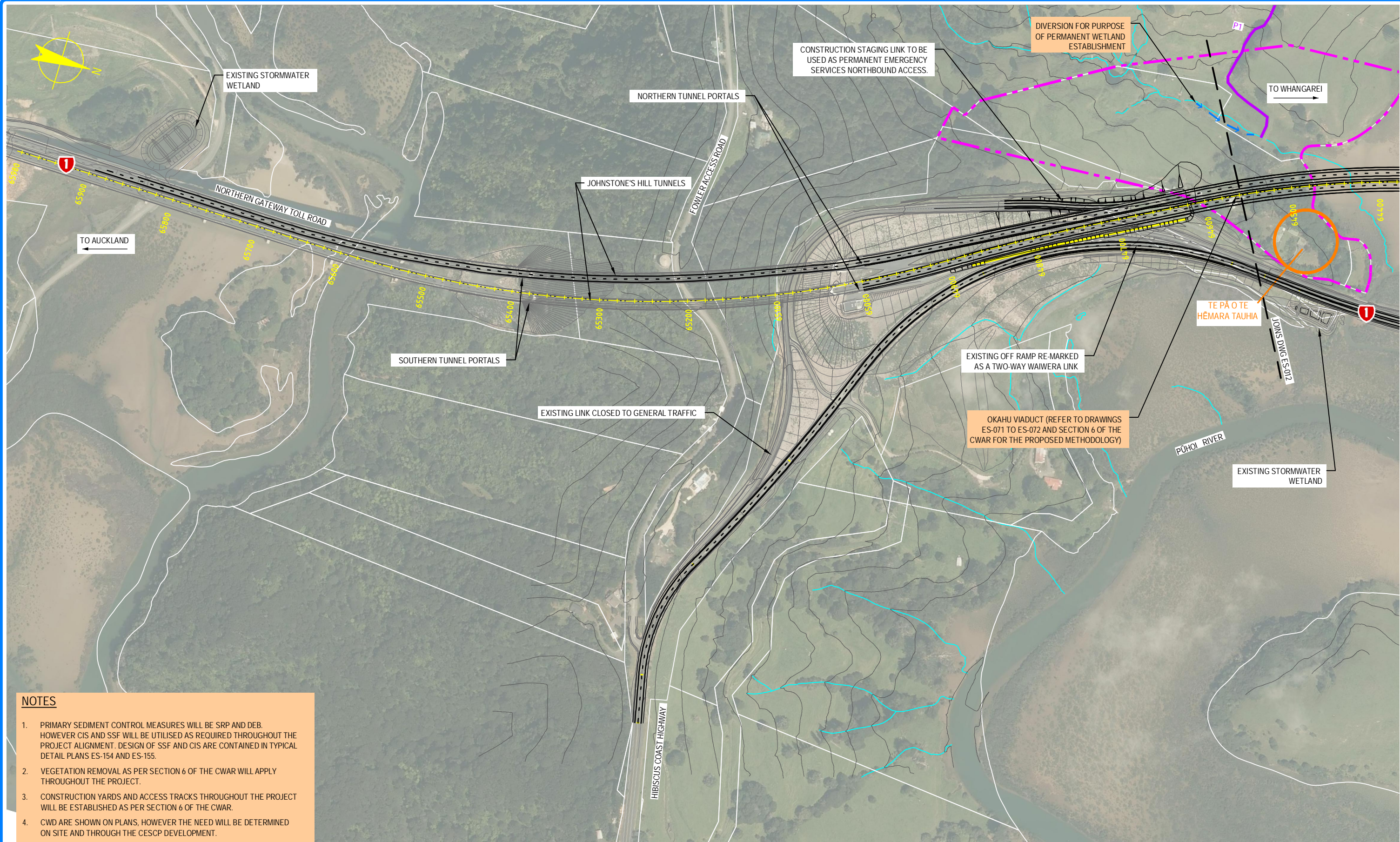


DISCLAIMER
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: RS	REVIEWED DISCIPLINE MANAGER: MW	APPROVED ALLIANCE MANAGER: TI
DESIGNED: RS	DESIGN REVIEW: GR		

CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN - SHEET LAYOUT			
SCALE: NOT TO SCALE	CONTRACT No: PA3748	DRAWING No: ES-010	AMDT: 0

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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 CESC 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



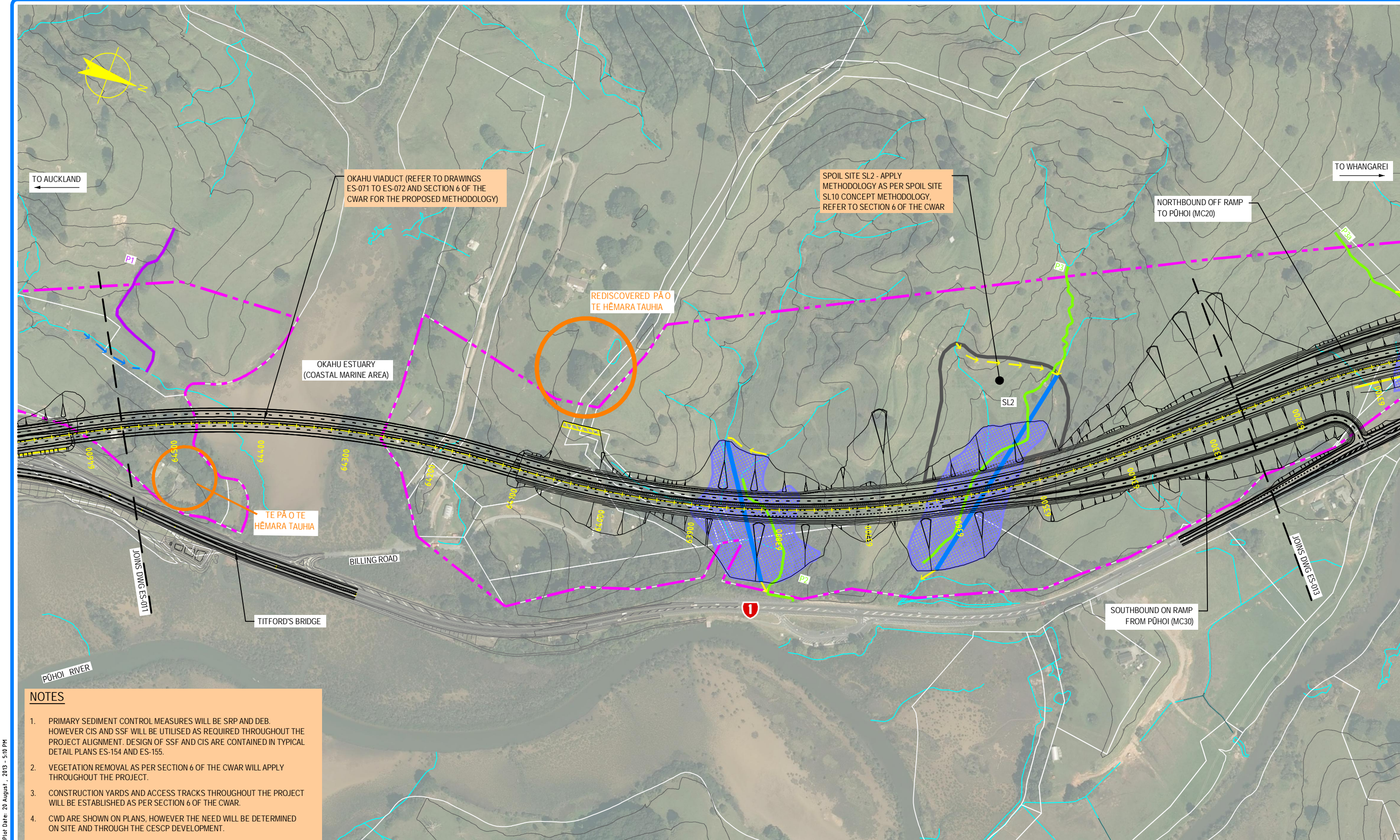
AMT	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: RS	REVIEWED DISCIPLINE MANAGER: MW	APPROVED ALLIANCE MANAGER: TI
DESIGNED: RS	DESIGN REVIEW: GR		

CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN - 1 OF 15			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: ES-011	AMT: 0



- 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 CEMSC 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	REVD. D. MGR	APPD. A. MGR	PURPOSE OF ISSUE / AMENDMENT

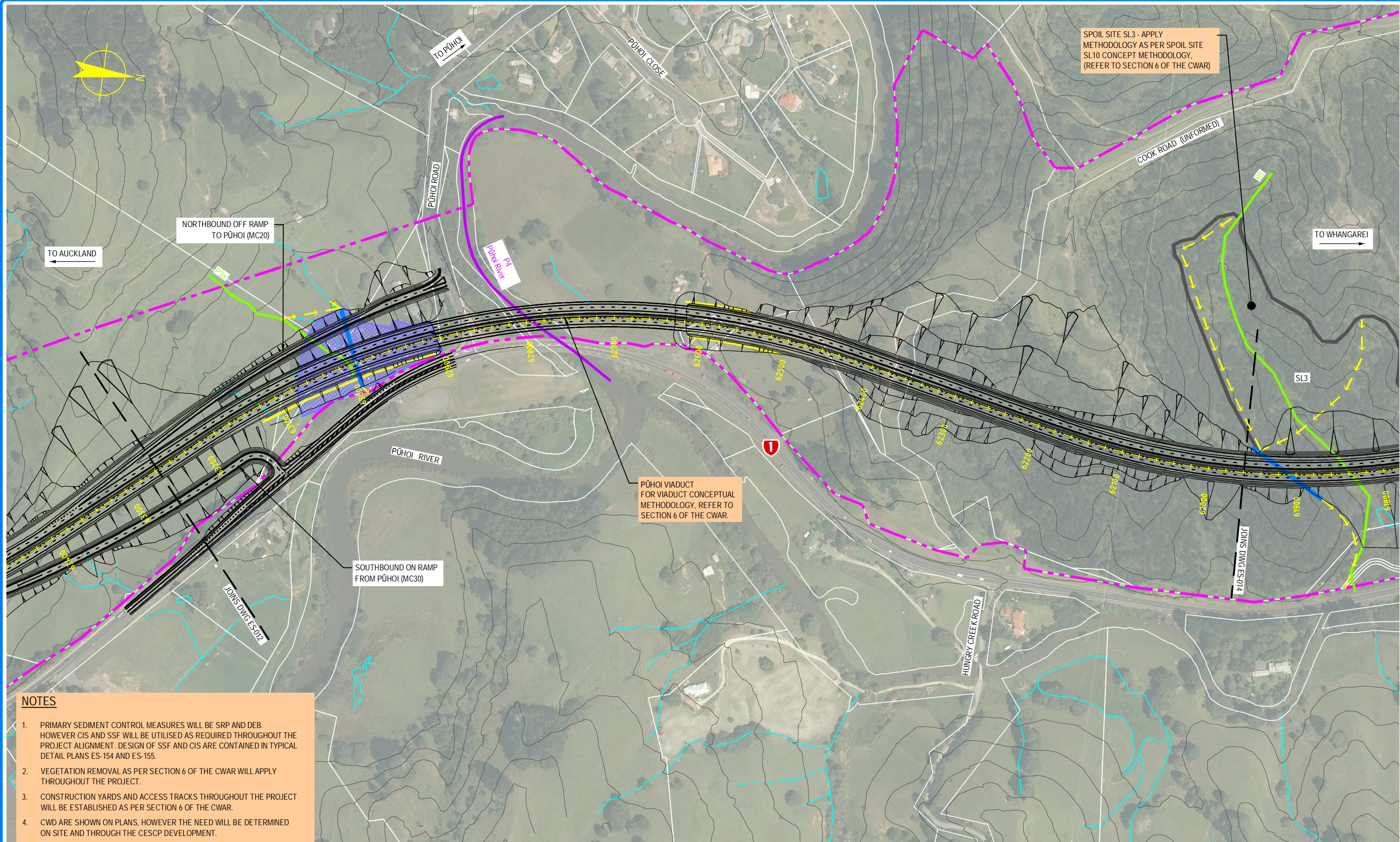


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ARA TŪHONO - PŪHOI TO WELLSFORD			
PŪHOI TO WARKWORTH - FOR RMA APPROVALS			
DRAWN: SP / AN	DRAFTING CHECK: RS	REVIEWED DISCIPLINE MANAGER: MW	APPROVED ALLIANCE MANAGER: TI
DESIGNED: RS	DESIGN REVIEW: GR		

CONSTRUCTION WATER MANAGEMENT			
CONCEPT PLAN - 2 OF 15			
SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: ES-012	AMDT: 0

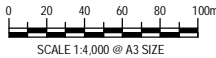
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NOTES

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.

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



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AMD	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT



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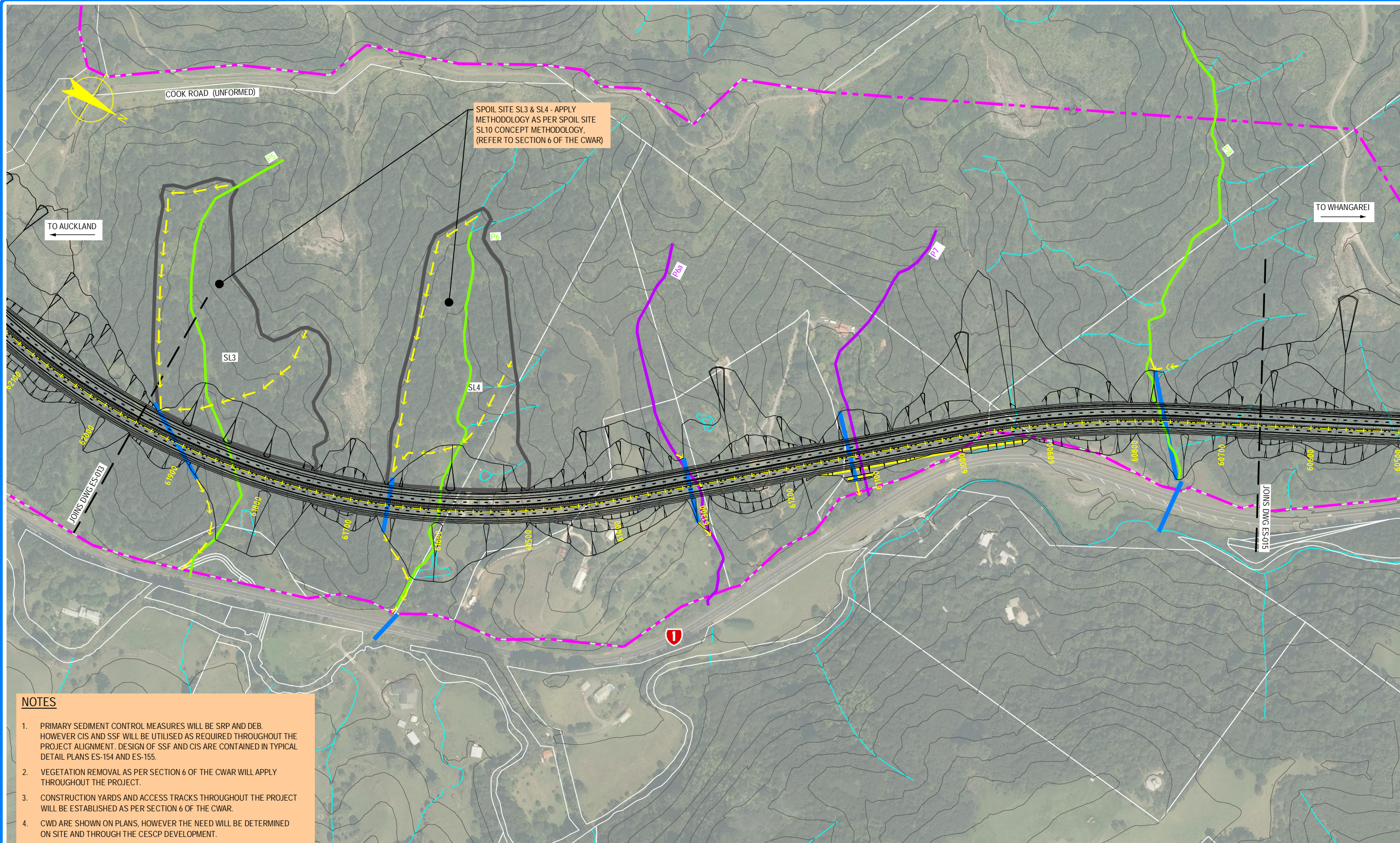
ARA TŪHONO - PŪHOI TO WELLSFORD
PŪHOI TO WARKWORTH - FOR RMA APPROVALS

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

CONSTRUCTION WATER MANAGEMENT
CONCEPT PLAN - 3 OF 15

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: ES-013	AMDT: 0
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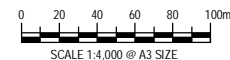
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NOTES

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.
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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



AMT	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
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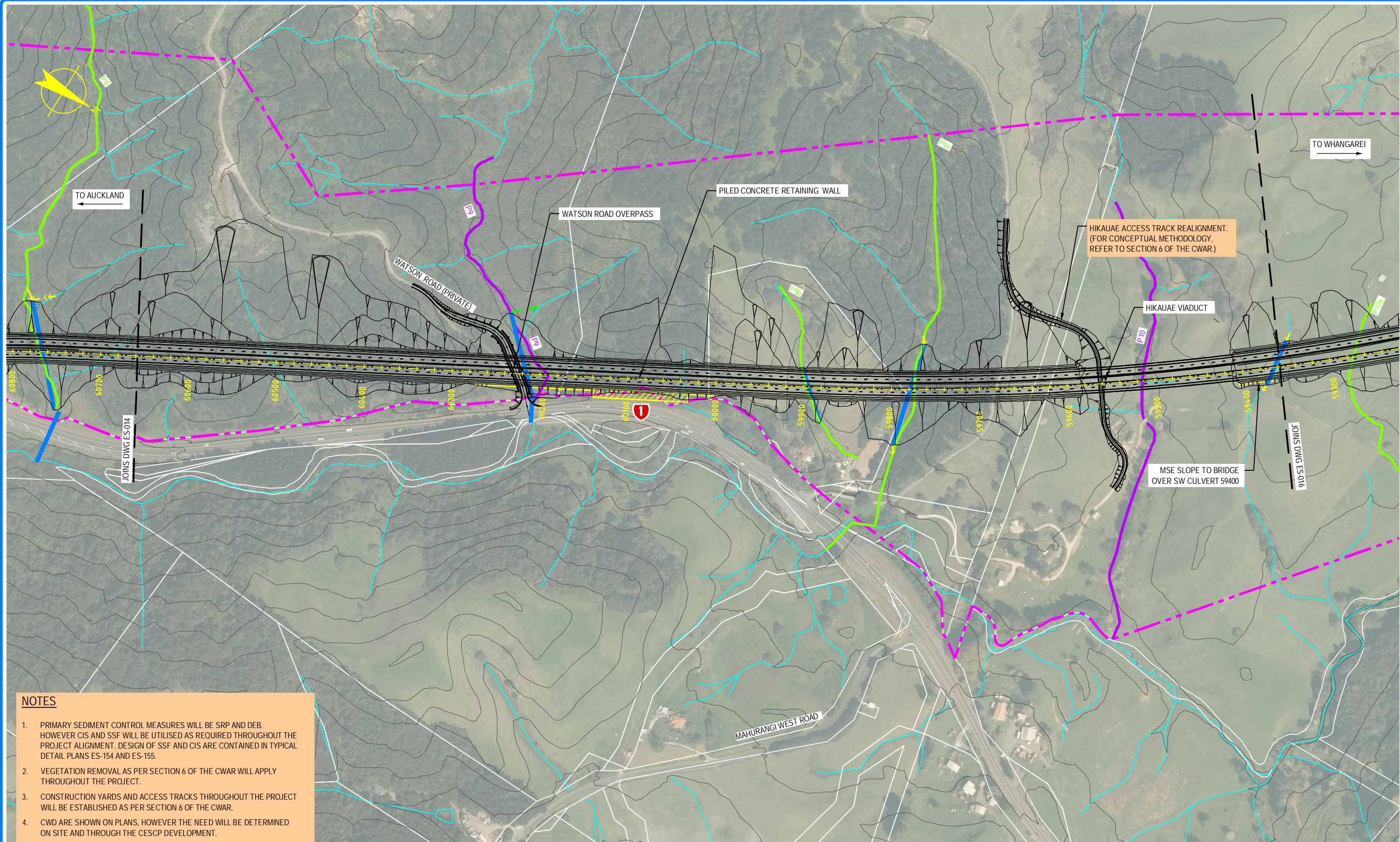
ARA TŪHONO - PŪHOI TO WELLSFORD PŪHOI TO WARKWORTH - FOR RMA APPROVALS

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

CONSTRUCTION WATER MANAGEMENT CONCEPT PLAN - 4 OF 15

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: ES-014	AMT: 0
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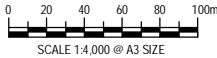
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NOTES

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.
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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



AMDT	DATE	DESIGN REVIEW	REVD D. MGR	APPRD A. MGR	PURPOSE OF ISSUE / AMENDMENT
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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 - 5 OF 15

SCALE: AS SHOWN	CONTRACT No: PA3748	DRAWING No: ES-015	AMDT: 0
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