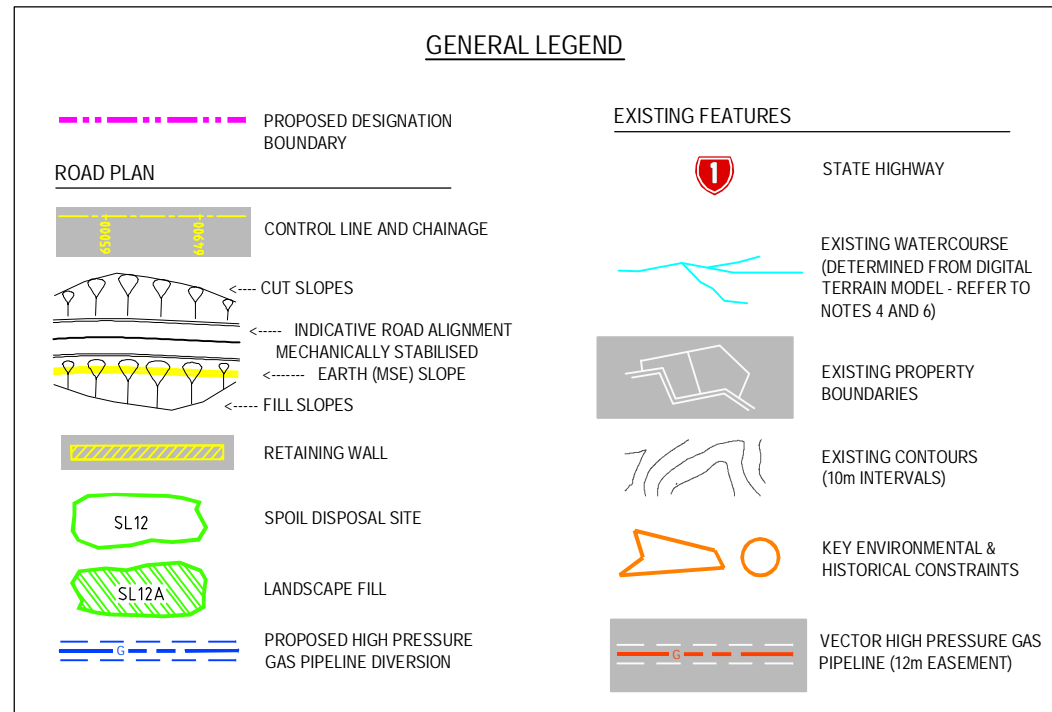


DRWG No.	DRAWING TITLE
R-001	<b>ROAD ALIGNMENT</b> ROAD ALIGNMENT - DRAWING INDEX, NOTES AND LEGEND
R-100	ROAD ALIGNMENT PLANS - SHEET LAYOUT
R-101	ROAD ALIGNMENT PLAN - SHEET 1 OF 15
R-102	ROAD ALIGNMENT PLAN - SHEET 2 OF 15
R-103	ROAD ALIGNMENT PLAN - SHEET 3 OF 15
R-104	ROAD ALIGNMENT PLAN - SHEET 4 OF 15
R-105	ROAD ALIGNMENT PLAN - SHEET 5 OF 15
R-106	ROAD ALIGNMENT PLAN - SHEET 6 OF 15
R-107	ROAD ALIGNMENT PLAN - SHEET 7 OF 15
R-108	ROAD ALIGNMENT PLAN - SHEET 8 OF 15
R-109	ROAD ALIGNMENT PLAN - SHEET 9 OF 15
R-110	ROAD ALIGNMENT PLAN - SHEET 10 OF 15
R-111	ROAD ALIGNMENT PLAN - SHEET 11 OF 15
R-112	ROAD ALIGNMENT PLAN - SHEET 12 OF 15
R-113	ROAD ALIGNMENT PLAN - SHEET 13 OF 15
R-114	ROAD ALIGNMENT PLAN - SHEET 14 OF 15
R-115	ROAD ALIGNMENT PLAN - SHEET 15 OF 15
R-120	ROAD PLAN AND LONGITUDINAL SECTIONS - SHEET LAYOUT
R-121	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 63650 TO CH 65250 - SHEET 1 OF 6
R-122	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 60350 TO CH 63600 - SHEET 2 OF 6
R-123	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 57050 TO CH 60300 - SHEET 3 OF 6
R-124	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 53750 TO CH 57000 - SHEET 4 OF 6
R-125	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 50450 TO CH 53700 - SHEET 5 OF 6
R-126	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONGITUDINAL SECTION - CH 47121 TO CH 50400 - SHEET 6 OF 6
R-131	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 63650 TO CH 65250 - SHEET 1 OF 6
R-132	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 60350 TO CH 63600 - SHEET 2 OF 6
R-133	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 57050 TO CH 60300 - SHEET 3 OF 6
R-134	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 53750 TO CH 57000 - SHEET 4 OF 6
R-135	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 50450 TO CH 53700 - SHEET 5 OF 6
R-136	NORTHBOUND ALIGNMENT MCN0 - PLAN AND LONGITUDINAL SECTION - CH 47115 TO CH 50400 - SHEET 6 OF 6
R-140	WAIWERA TWO-WAY LINK MC00 - PLAN AND LONGITUDINAL SECTION
R-141	JOHNSTONE'S HILL - EMERGENCY SERVICE ACCESS MC10 - PLAN AND LONGITUDINAL SECTION
R-142	PŪHOI INTERCHANGE - SOUTHBOUND ON RAMP MC30 - PLAN AND LONGITUDINAL SECTION
R-143	PŪHOI INTERCHANGE - NORTHBOUND OFF RAMP MC20 - PLAN AND LONGITUDINAL SECTION
R-144	PŪHOI INTERCHANGE - STATE HIGHWAY 1 CONNECTION MCD0 - PLAN & LONGITUDINAL SECTION
R-147	WYLLIE ROAD MCY0 - PLAN AND LONGITUDINAL SECTION
R-148	WOODCOCKS ROAD MCW0 - PLAN AND LONGITUDINAL SECTION
R-149	CARRAN ROAD MCX0 - PLAN AND LONGITUDINAL SECTION
R-150	NORTHERN LINK TO WHANGAREI MC60 - PLAN AND LONGITUDINAL SECTION
R-151	EASTERN LINK TO WARKWORTH MC70 - PLAN AND LONGITUDINAL SECTION
R-152	MOIRS HILL ROAD MCM0 - PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 3
R-153	MOIRS HILL ROAD MCM0 - PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 3
R-154	MOIRS HILL ROAD MCM0 - PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 3
R-201	ROAD LIGHTING PLAN - SHEET 1 OF 2 - PŪHOI INTERCHANGE - PLAN AND TYPICAL SECTION
R-202	ROAD LIGHTING PLAN - SHEET 2 OF 2 - NORTHERN INTERSECTION - PLAN AND TYPICAL SECTION

DRWG No.	DRAWING TITLE
R-211	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 1 OF 8
R-212	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 2 OF 8
R-213	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 3 OF 8
R-214	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 4 OF 8
R-215	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 5 OF 8
R-216	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 6 OF 8
R-217	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 7 OF 8
R-218	TYPICAL CROSS SECTIONS AND DETAILS - SHEET 8 OF 8
R-221	WAIWERA LINK - TYPICAL CROSS SECTIONS
R-222	PRIVATE ACCESS ROADS - TYPICAL CROSS SECTIONS
R-223	WATSON ROAD (PRIVATE) - TYPICAL CROSS SECTIONS
R-224	MOIRS HILL ROAD - TYPICAL CROSS SECTIONS
R-225	WYLLIE ROAD - TYPICAL CROSS SECTION
R-226	WOODCOCKS ROAD / CARRAN ROAD - TYPICAL CROSS SECTION
R-227	NORTHERN LINK TO WHANGAREI - TYPICAL CROSS SECTIONS
R-228	EASTERN LINK TO WARKWORTH - TYPICAL CROSS SECTIONS

**GENERAL NOTES**

- ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
- ALL NAMED ROADS SHALL BE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
- AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
- DIGITAL TERRAIN MODEL DERIVED FROM AERIAL PHOTOGRAMETRIC SURVEY (MARCH 2010) TO NZTM PROJECTION.
- EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, APRIL 2013 UPDATE.
- DOES NOT DIFFERENTIATE BETWEEN INTERMITTENT AND PERMANENT STREAM, REFER TO DRAWING FE-101.
- FOR DETAILS OF OPERATIONAL WATER MANAGEMENT, REFER TO DRAWINGS SW-001 AND SW-100 TO SW-115.
- FOR STRUCTURES PLANS, REFER TO DRAWINGS S-001 TO S-111.



AMT	DATE	DESIGN REVIEW	REVD D. MGR	APPD A. MGR	PURPOSE OF ISSUE / AMENDMENT
0	30/08/13	RET	MRH	TI	ISSUE FOR NOR / CONSENT



**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 SNP	DRAFTING CHECK RET	REVIEWED DISCIPLINE MANAGER MRH	APPROVED ALLIANCE MANAGER TI
DESIGNED SNP	DESIGN REVIEW RET		

ROAD ALIGNMENT DRAWING INDEX, NOTES AND LEGEND			
SCALE NOT TO SCALE	CONTRACT NO. PA3748	DRAWING NO. R-001	AMDT 0