

# MERIDIAN ENERGY MT MUNRO - MEL WAIRARAPA WIND FARM

## CONCEPT DESIGN

DRAWING

Rev Title

### GENERAL INFORMATION

- 1016884.1000-000
- 1016884.1000-001
- 1016884.1000-002

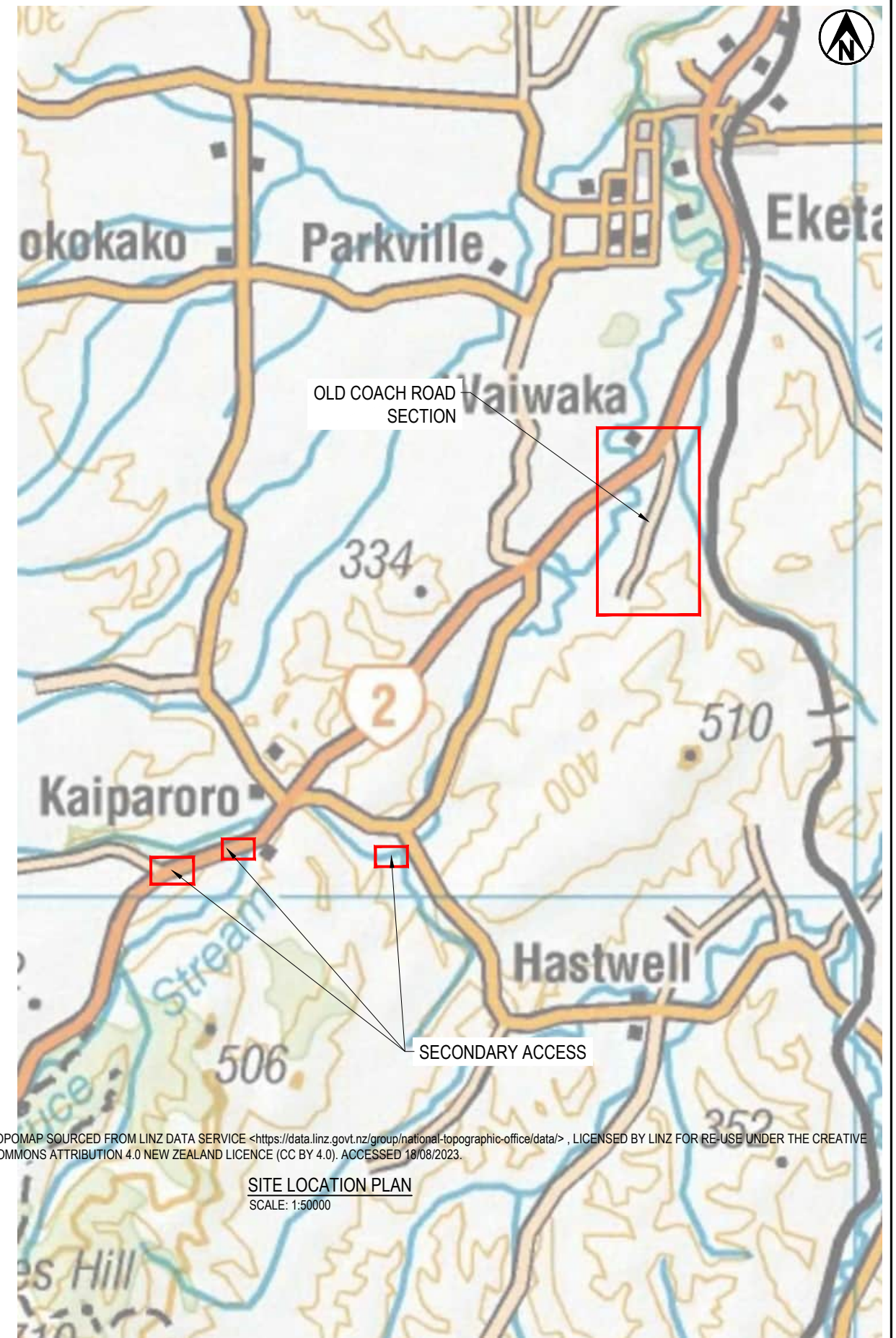
### OLD COACH ROAD

- 1016884.1000-100
- 1016884.1000-101
- 1016884.1000-102
- 1016884.1000-103
- 1016884.1000-104
- 1016884.1000-105
- 1016884.1000-106
- 1016884.1000-107
- 1016884.1000-108
- 1016884.1000-109

### SECONDARY ACCESS

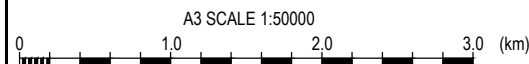
- 1016884.1000-200
- 1016884.1000-201
- 1016884.1000-202

1	DRAWING LIST AND OVERALL SITE LOCATION
1	SECTION COVERSHEET - OLD COACH ROAD
1	SECTION COVERSHEET - SECONDARY ACCESS
1	OLD COACH ROAD SHEET 1 OF 10
1	OLD COACH ROAD SHEET 2 OF 10
1	OLD COACH ROAD SHEET 3 OF 10
1	OLD COACH ROAD SHEET 4 OF 10
1	OLD COACH ROAD SHEET 5 OF 10
1	OLD COACH ROAD SHEET 6 OF 10
1	OLD COACH ROAD SHEET 7 OF 10
1	OLD COACH ROAD SHEET 8 OF 10
1	OLD COACH ROAD SHEET 9 OF 10
1	OLD COACH ROAD SHEET 10 OF 10
1	TERMINAL SUBSTATION ACCESS SH2, KAIPARORO ROAD
1	INTERNAL TRANSMISSION LINE ACCESS (SH2)
1	INTERNAL TRANSMISSION LINE ACCESS OPAKI-KAIPARORO ROAD



TOPOMAP SOURCED FROM LINZ DATA SERVICE <https://data.linz.govt.nz/group/national-topographic-office/data/>, LICENSED BY LINZ FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 NEW ZEALAND LICENCE (CC BY 4.0). ACCESSED 18/08/2023.

SITE LOCATION PLAN  
SCALE: 1:50000

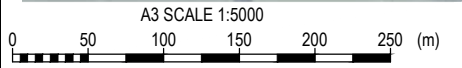
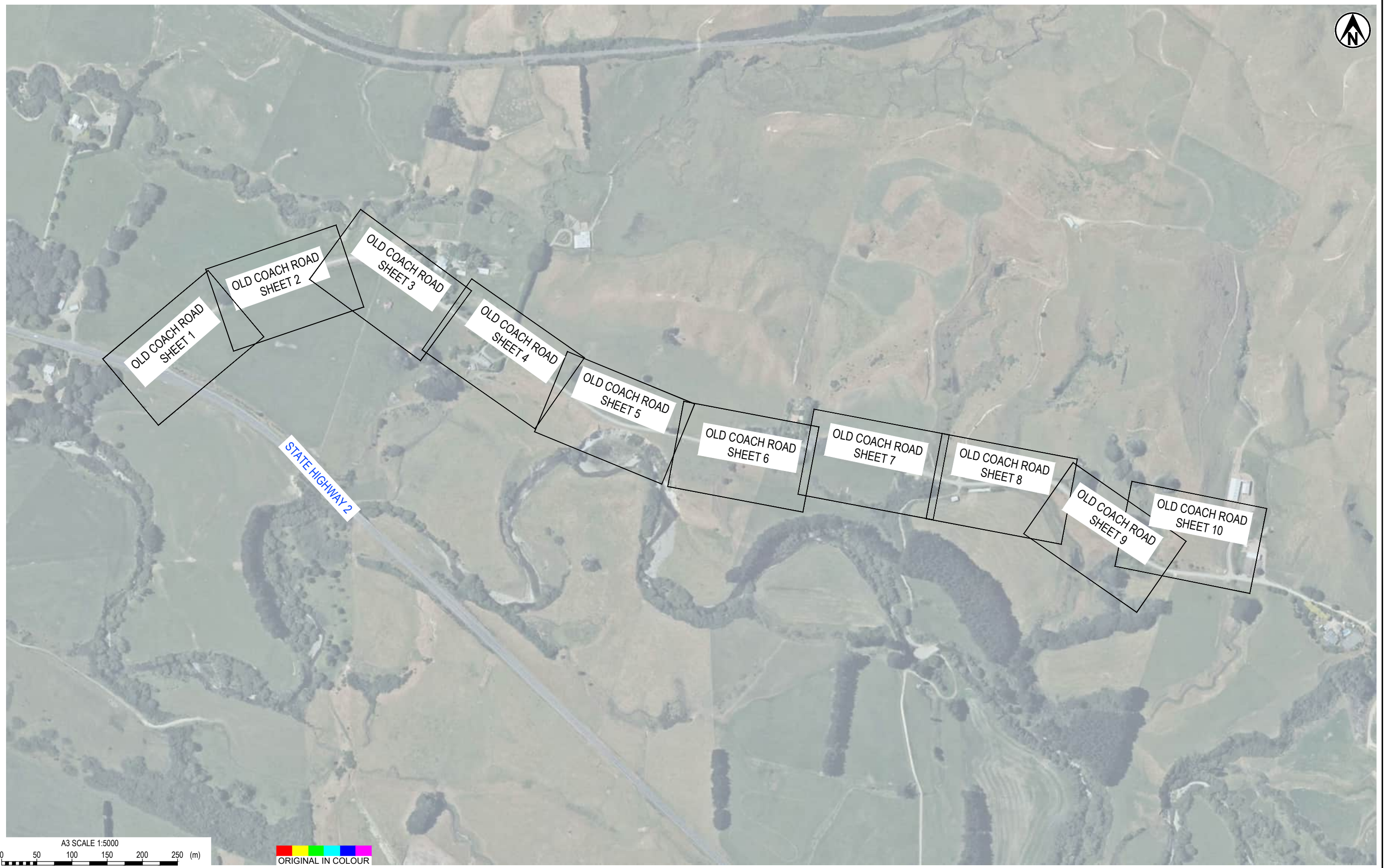


Exceptional thinking together www.tonkintaylor.co.nz

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					DRAWN	CHLI	Aug.23					PROJECT PHASE	CONCEPT DESIGN	PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
					DESIGN CHECKED	MGM	Aug.23			TITLE	DRAWING LIST AND SITE LOCATION PLAN				
					DRAWING CHECKED	MGM	Aug.23				GENERAL INFORMATION				
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED			DATE	SCALE (A3)		1:50,000	DWG No.	1016884.1000-000	REV	1

NOT FOR CONSTRUCTION

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED



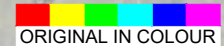
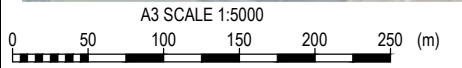
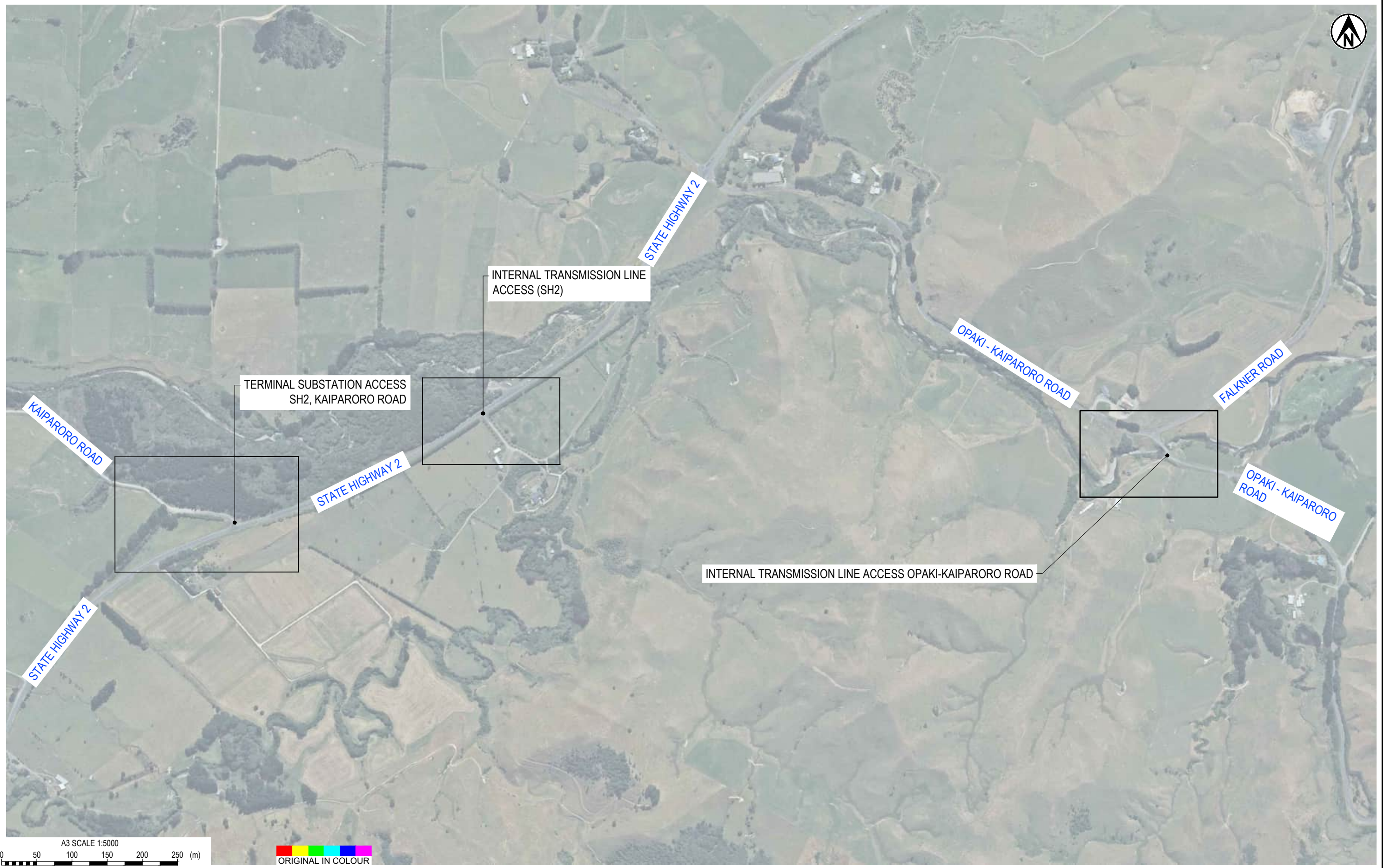
ORIGINAL IN COLOUR



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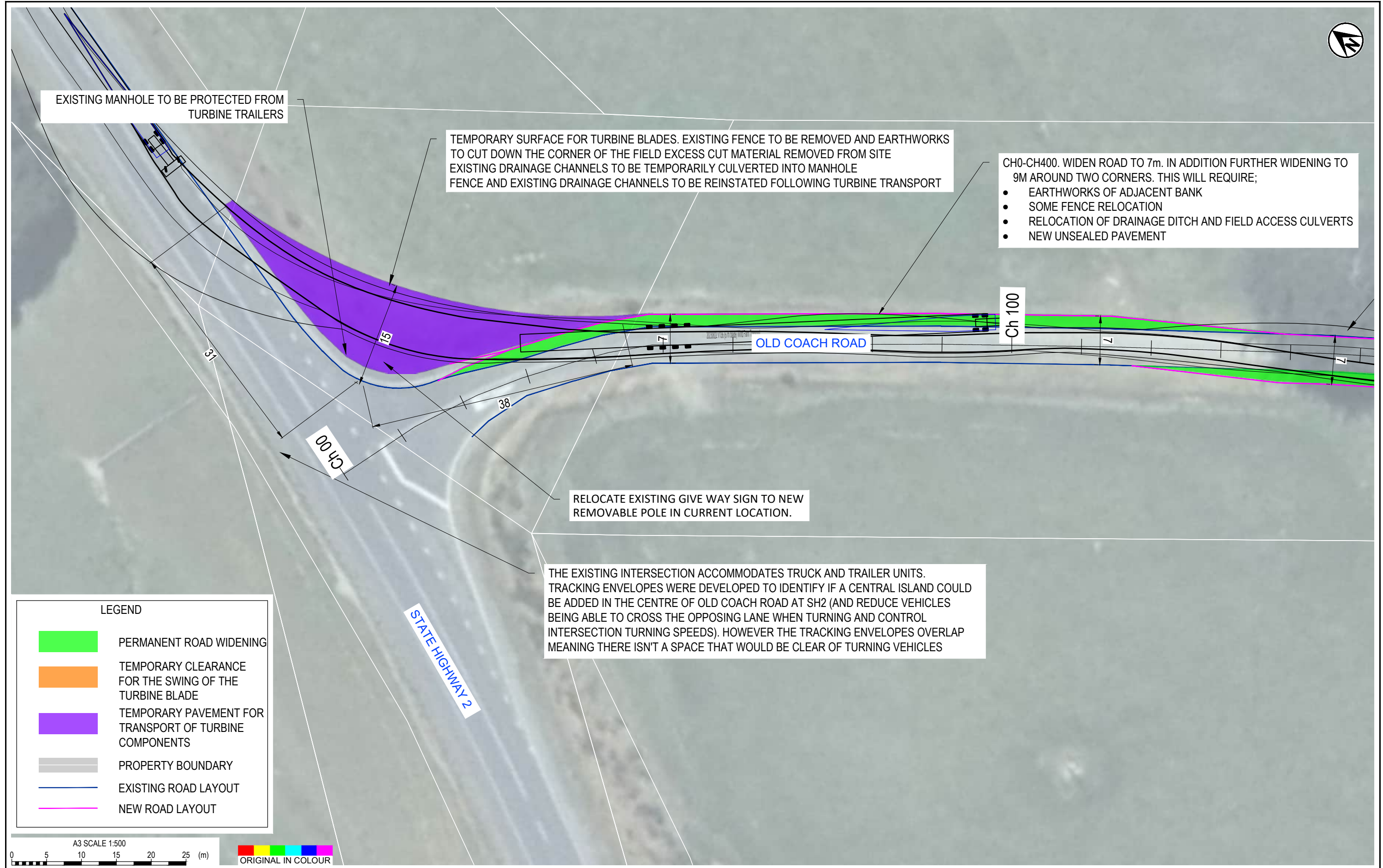
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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SECTION COVERSHEET
SCALE (A3)	1:7500
DWG No.	1016884.1000-001
REV	1



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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	SECONDARY ACCESS SECTION COVERSHEET
SCALE (A3)	1:7500
DWG No.	1016884.1000-002
REV	1



EXISTING MANHOLE TO BE PROTECTED FROM TURBINE TRAILERS

TEMPORARY SURFACE FOR TURBINE BLADES. EXISTING FENCE TO BE REMOVED AND EARTHWORKS TO CUT DOWN THE CORNER OF THE FIELD EXCESS CUT MATERIAL REMOVED FROM SITE EXISTING DRAINAGE CHANNELS TO BE TEMPORARILY CULVERTED INTO MANHOLE FENCE AND EXISTING DRAINAGE CHANNELS TO BE REINSTATED FOLLOWING TURBINE TRANSPORT

CH0-CH400. WIDEN ROAD TO 7m. IN ADDITION FURTHER WIDENING TO 9M AROUND TWO CORNERS. THIS WILL REQUIRE;

- EARTHWORKS OF ADJACENT BANK
- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT

RELOCATE EXISTING GIVE WAY SIGN TO NEW REMOVABLE POLE IN CURRENT LOCATION.

THE EXISTING INTERSECTION ACCOMMODATES TRUCK AND TRAILER UNITS. TRACKING ENVELOPES WERE DEVELOPED TO IDENTIFY IF A CENTRAL ISLAND COULD BE ADDED IN THE CENTRE OF OLD COACH ROAD AT SH2 (AND REDUCE VEHICLES BEING ABLE TO CROSS THE OPPOSING LANE WHEN TURNING AND CONTROL INTERSECTION TURNING SPEEDS). HOWEVER THE TRACKING ENVELOPES OVERLAP MEANING THERE ISN'T A SPACE THAT WOULD BE CLEAR OF TURNING VEHICLES

**LEGEND**

	PERMANENT ROAD WIDENING
	TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
	TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
	PROPERTY BOUNDARY
	EXISTING ROAD LAYOUT
	NEW ROAD LAYOUT



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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 1
SCALE (A3)	1:500
DWG No.	1016884.1000-100
REV	1



BLADE SWING TO THE EAST OVER THE ADJACENT Paddock. NO OBSTRUCTIONS NOTED  
REMOVE SMALL EXISTING TREE ON THE EASTERN SIDE OF THE ROAD

TRIM LOWER BRANCHES OF TREE TO  
ACCOMMODATE SWING OF TURBINE BLADE

Ch 200

OLD COACH ROAD

Ch 300

RELOCATE EXISTING INTERSECTION  
WARNING SIGN TO NEW POST

CH0-CH400. WIDEN ROAD TO 7m. IN ADDITION FURTHER WIDENING TO  
9M AROUND TWO CORNERS. THIS WILL REQUIRE;

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- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT

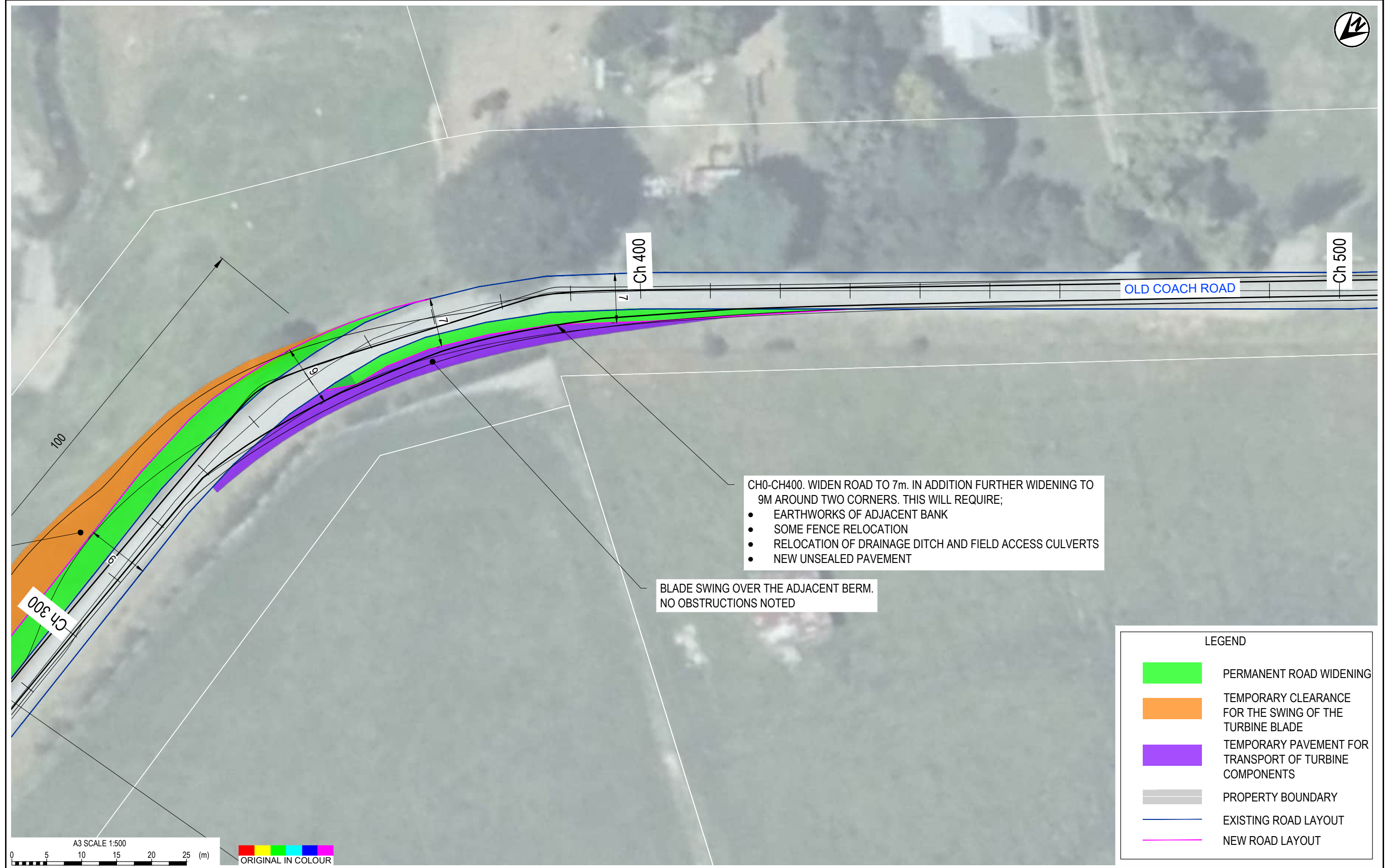
**LEGEND**

- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
- NEW ROAD LAYOUT



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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 2
SCALE (A3)	1:500
DWG No.	1016884.1000-101
REV	1

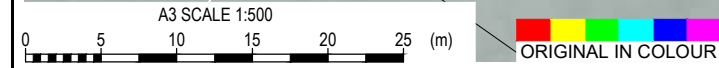


CH0-CH400. WIDEN ROAD TO 7m. IN ADDITION FURTHER WIDENING TO 9M AROUND TWO CORNERS. THIS WILL REQUIRE;

- EARTHWORKS OF ADJACENT BANK
- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT

BLADE SWING OVER THE ADJACENT BERM.  
NO OBSTRUCTIONS NOTED

LEGEND	
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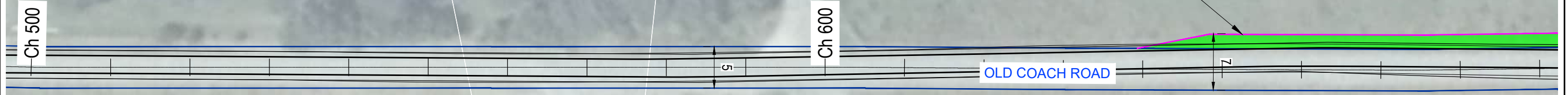
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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 3
SCALE (A3)	1:500
DWG No.	1016884.1000-102
REV	1



CH640-CH850. WIDEN ROAD TO 8m AROUND INSIDE OF CORNER OPPOSITE POWER POLES. THIS WILL REQUIRE;

- EARTHWORKS OF ADJACENT BANK
- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT



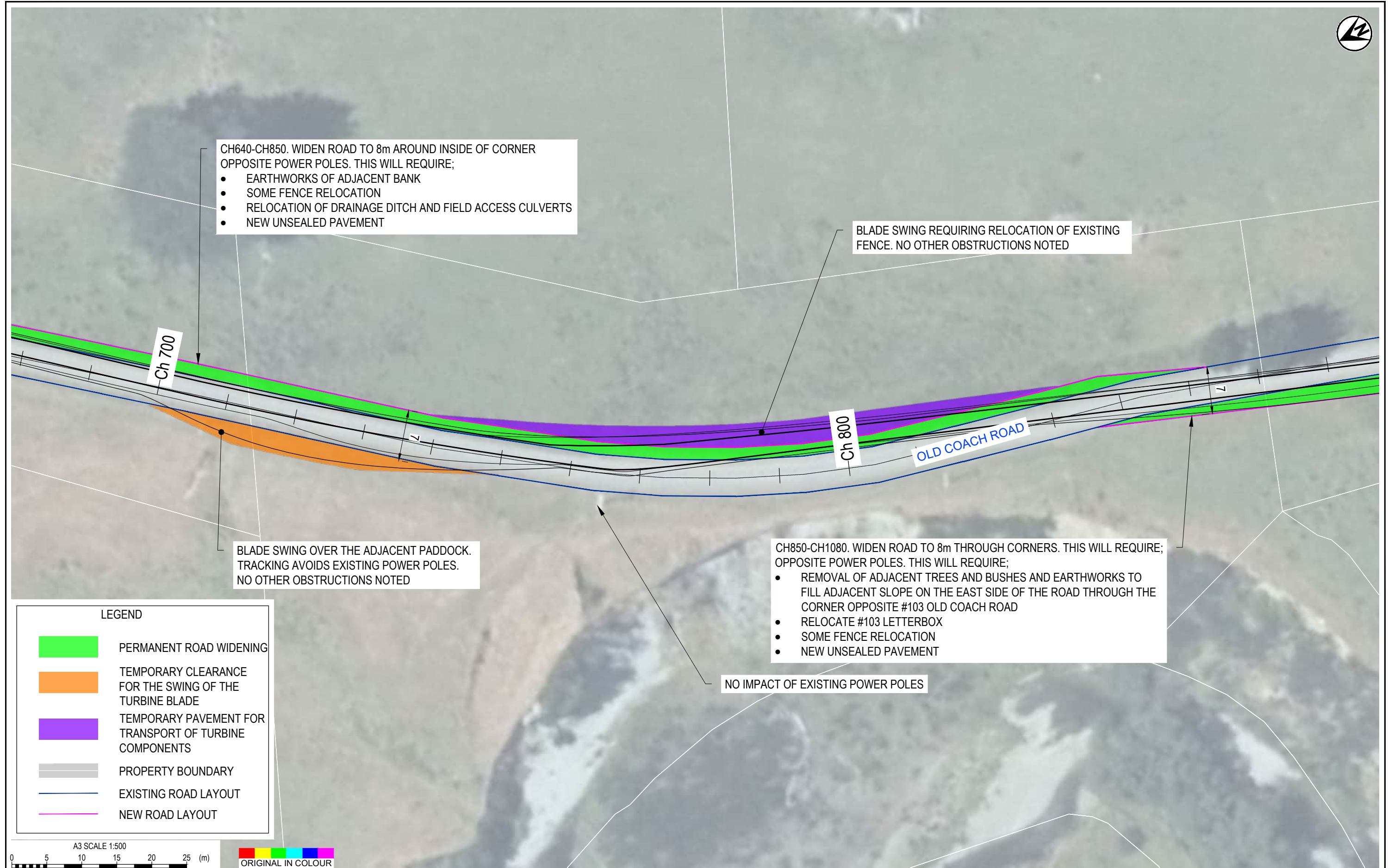
**LEGEND**

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- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 4
SCALE (A3)	1:500
DWG No.	1016884.1000-103
REV	1



CH640-CH850. WIDEN ROAD TO 8m AROUND INSIDE OF CORNER OPPOSITE POWER POLES. THIS WILL REQUIRE;

- EARTHWORKS OF ADJACENT BANK
- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT

BLADE SWING REQUIRING RELOCATION OF EXISTING FENCE. NO OTHER OBSTRUCTIONS NOTED

BLADE SWING OVER THE ADJACENT Paddock. TRACKING AVOIDS EXISTING POWER POLES. NO OTHER OBSTRUCTIONS NOTED

CH850-CH1080. WIDEN ROAD TO 8m THROUGH CORNERS. THIS WILL REQUIRE; OPPOSITE POWER POLES. THIS WILL REQUIRE;

- REMOVAL OF ADJACENT TREES AND BUSHES AND EARTHWORKS TO FILL ADJACENT SLOPE ON THE EAST SIDE OF THE ROAD THROUGH THE CORNER OPPOSITE #103 OLD COACH ROAD
- RELOCATE #103 LETTERBOX
- SOME FENCE RELOCATION
- NEW UNSEALED PAVEMENT

NO IMPACT OF EXISTING POWER POLES

**LEGEND**

- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
- NEW ROAD LAYOUT



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CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 5
SCALE (A3)	1:500
DWG No.	1016884.1000-104
REV	1





REMOVAL OF ADJACENT TREES AND BUSHES AND BANK ON THE WEST SIDE OF THE ROAD APPROACHING THE CORNER

Ch 900

1000.130

OLD COACH ROAD

TEMPORARY ROAD WIDENING FOR BLADE TRANSPORT

CH850-CH1080. WIDEN ROAD TO 8m THROUGH CORNERS. THIS WILL REQUIRE; OPPOSITE POWER POLES. THIS WILL REQUIRE;

- REMOVAL OF ADJACENT TREES AND BUSHES AND EARTHWORKS TO FILL ADJACENT SLOPE ON THE EAST SIDE OF THE ROAD THROUGH THE CORNER OPPOSITE #103 OLD COACH ROAD. THIS WILL REQUIRE WORK WITHIN THE DRIPLINE OF THE REMAINING TREES
- RELOCATE #103 LETTERBOX
- SOME FENCE RELOCATION
- NEW UNSEALED PAVEMENT

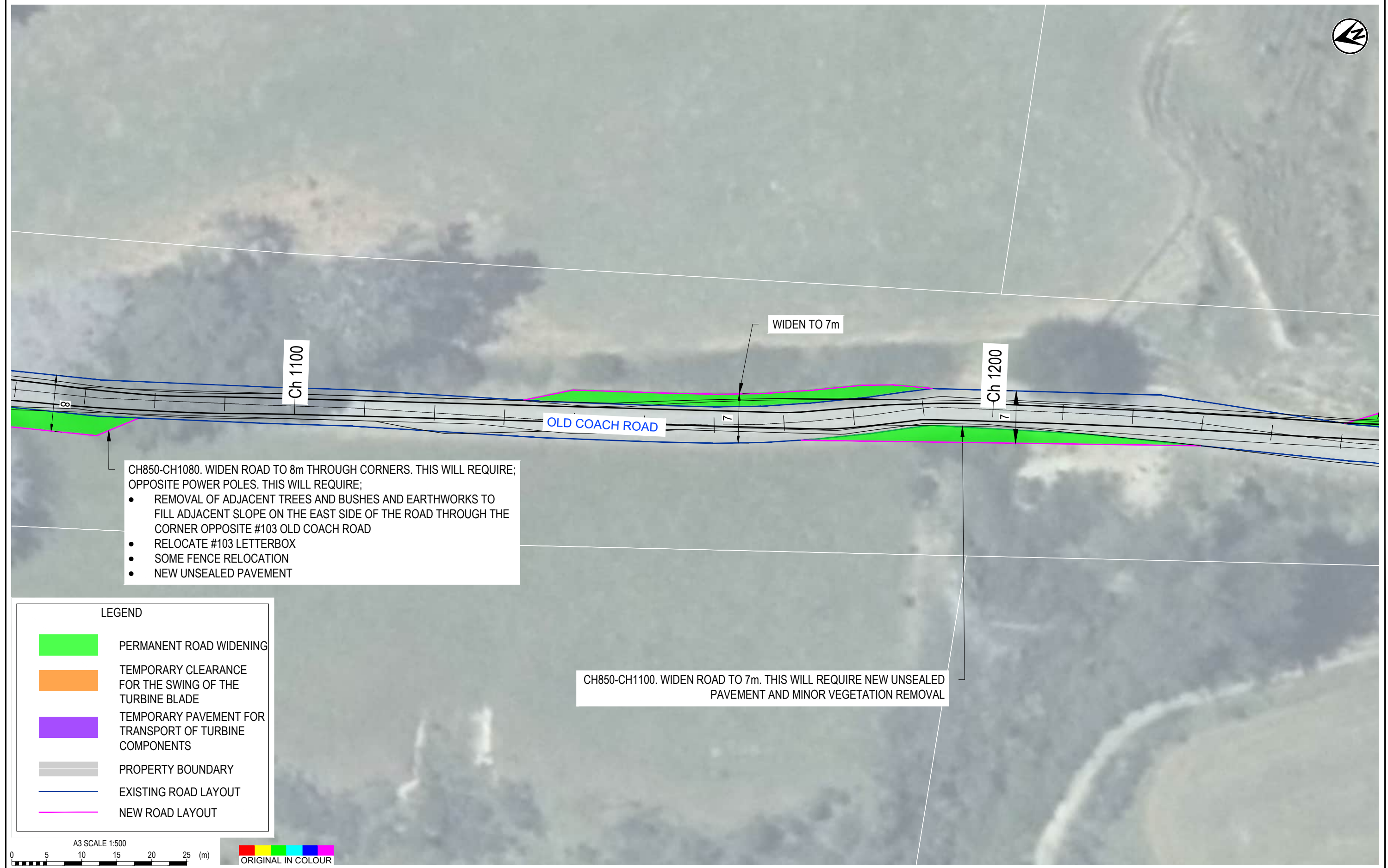
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PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 6
SCALE (A3)	1:500
DWG No.	1016884.1000-105
REV	1



CH850-CH1080. WIDEN ROAD TO 8m THROUGH CORNERS. THIS WILL REQUIRE; OPPOSITE POWER POLES. THIS WILL REQUIRE;

- REMOVAL OF ADJACENT TREES AND BUSHES AND EARTHWORKS TO FILL ADJACENT SLOPE ON THE EAST SIDE OF THE ROAD THROUGH THE CORNER OPPOSITE #103 OLD COACH ROAD
- RELOCATE #103 LETTERBOX
- SOME FENCE RELOCATION
- NEW UNSEALED PAVEMENT

CH850-CH1100. WIDEN ROAD TO 7m. THIS WILL REQUIRE NEW UNSEALED PAVEMENT AND MINOR VEGETATION REMOVAL

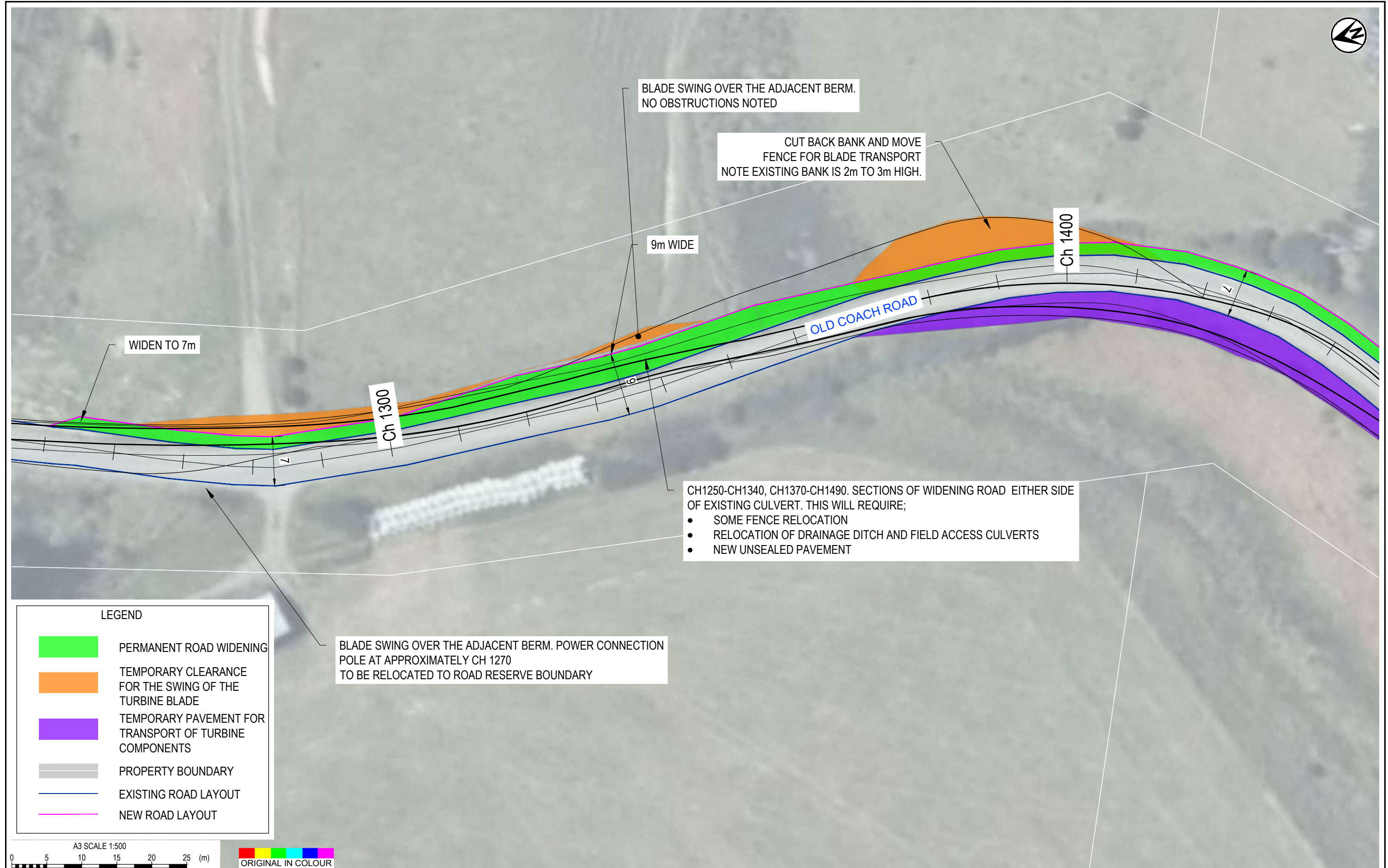
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TITLE	OLD COACH ROAD SHEET 7
SCALE (A3)	1:500
DWG No.	1016884.1000-106
REV	1

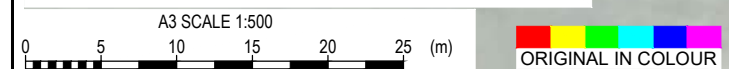


**LEGEND**

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<span style="display:inline-block; width:15px; height:10px; background-color: #CCCCCC; border: 1px solid black;"></span>	PROPERTY BOUNDARY
<span style="display:inline-block; width:15px; border-bottom: 2px solid blue;"></span>	EXISTING ROAD LAYOUT
<span style="display:inline-block; width:15px; border-bottom: 2px solid pink;"></span>	NEW ROAD LAYOUT

BLADE SWING OVER THE ADJACENT BERM. POWER CONNECTION POLE AT APPROXIMATELY CH 1270 TO BE RELOCATED TO ROAD RESERVE BOUNDARY

- CH1250-CH1340, CH1370-CH1490. SECTIONS OF WIDENING ROAD EITHER SIDE OF EXISTING CULVERT. THIS WILL REQUIRE;
- SOME FENCE RELOCATION
  - RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
  - NEW UNSEALED PAVEMENT



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PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 8
SCALE (A3)	1:500
DWG No.	1016884.1000-107
REV	1



CH1250-CH1340, CH1370-CH1490. SECTIONS OF WIDENING ROAD EITHER SIDE OF EXISTING CULVERT. THIS WILL REQUIRE;

- SOME FENCE RELOCATION
- RELOCATION OF DRAINAGE DITCH AND FIELD ACCESS CULVERTS
- NEW UNSEALED PAVEMENT

BLADE SWING OVER ADJACENT BERM.  
POWER POLE AT APPROXIMATELY CH1440 TO BE RELOCATED TO THE ROAD RESERVE BOUNDARY

ROAD ALIGNMENT WITHIN THE RED HATCHED AREA TO BE CONFIRMED FOLLOWING CONSENT. EXACT EXTENT WILL BE SUBJECT TO TEMPORARY AND PERMANENT INTERNAL ACCESS ROAD DESIGN.

**LEGEND**

- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
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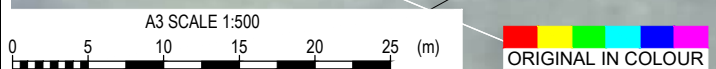
CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 9
SCALE (A3)	1:500
DWG No.	1016884.1000-108
REV	1



**LEGEND**

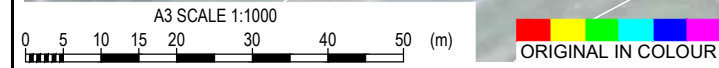
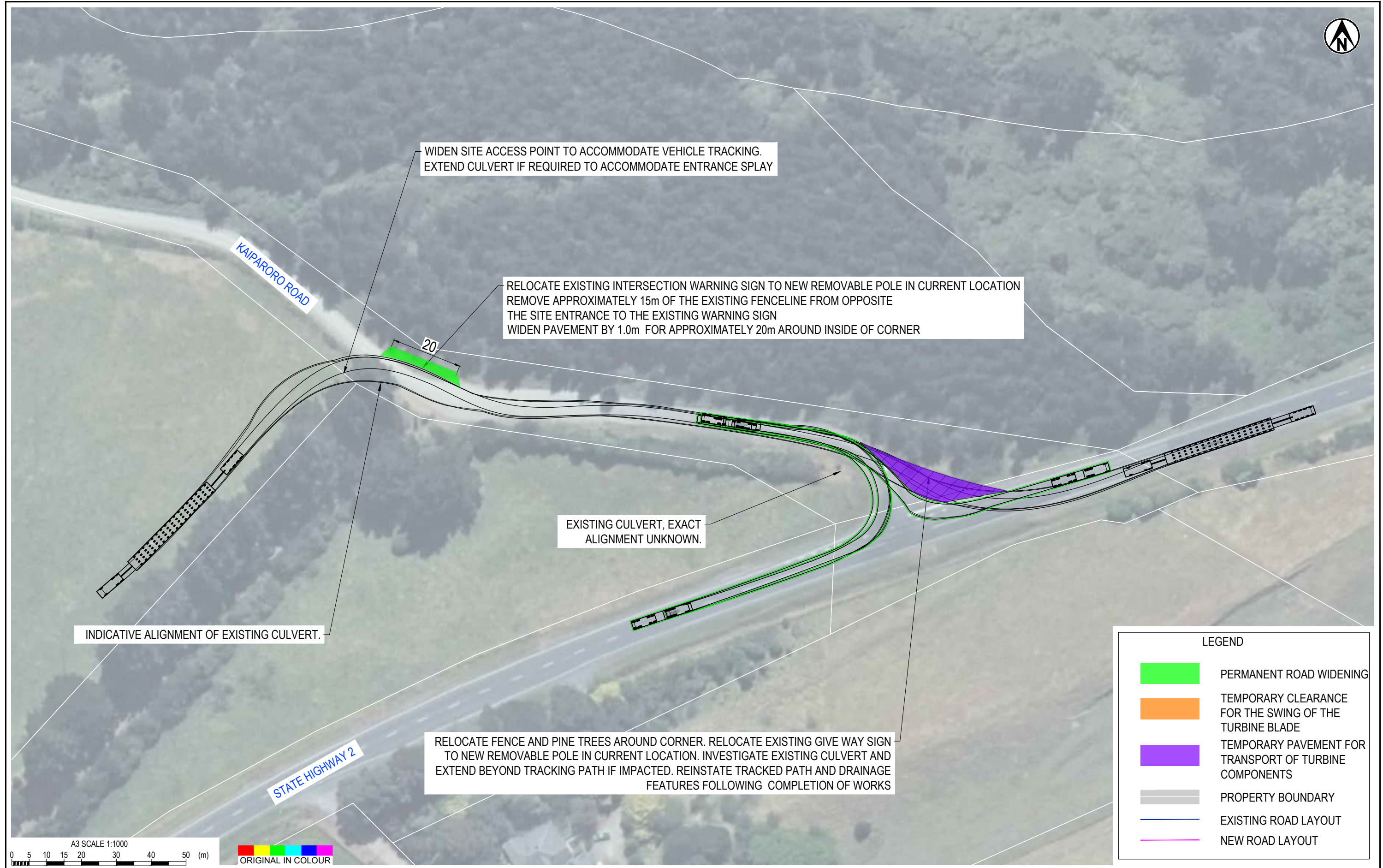
- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
- NEW ROAD LAYOUT

ROAD ALIGNMENT WITHIN THE RED HATCHED AREA TO BE CONFIRMED FOLLOWING CONSENT. EXACT EXTENT WILL BE SUBJECT TO TEMPORARY AND PERMANENT INTERNAL ACCESS ROAD DESIGN.



1	PRELIMINARY DRAFT	CHLI	BLR	30/08/2023	DESIGNED	BLR	Aug.23	DRAWING STATUS	PRELIMINARY DRAFT
					DRAWN	CHLI	Aug.23		
					DESIGN CHECKED	MGM	Aug.23	PROJECT PHASE	CONCEPT DESIGN
					DRAWING CHECKED	MGM	Aug.23		
					NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE			

CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	OLD COACH ROAD SHEET 10
SCALE (A3)	1:500
DWG No.	1016884.1000-109
REV	1



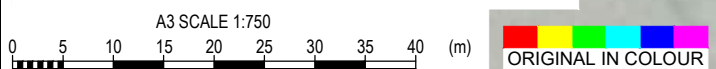
1	PRELIMINARY DRAFT	CHLI	BLR	30/08/2023	DESIGNED	BLR	Aug.23	DRAWING STATUS	PRELIMINARY DRAFT
					DRAWN	CHLI	Aug.23		
					DESIGN CHECKED	MGM	Aug.23	PROJECT PHASE	CONCEPT DESIGN
					DRAWING CHECKED	MGM	Aug.23		
					NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE			

CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	TERMINAL SUBSTATION ACCESS SH2 KAIPARORO ROAD
SCALE (A3)	1:750
DWG No.	1016884.1000-200
REV	1



**LEGEND**

- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
- NEW ROAD LAYOUT



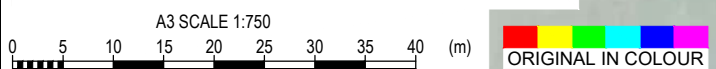
1	PRELIMINARY DRAFT	CHLI	BLR	30/08/2023	DESIGNED	BLR	Aug.23	DRAWING STATUS PRELIMINARY DRAFT PROJECT PHASE CONCEPT DESIGN
					DRAWN	CHLI	Aug.23	
					DESIGN CHECKED	MGM	Aug.23	
					DRAWING CHECKED	MGM	Aug.23	
					NOT FOR CONSTRUCTION			THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE		

CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	INTERNAL TRANSMISSION LINE ACCESS (SH2)
SCALE (A3)	1:750
DWG No.	1016884.1000-201
REV	1



**LEGEND**

- PERMANENT ROAD WIDENING
- TEMPORARY CLEARANCE FOR THE SWING OF THE TURBINE BLADE
- TEMPORARY PAVEMENT FOR TRANSPORT OF TURBINE COMPONENTS
- PROPERTY BOUNDARY
- EXISTING ROAD LAYOUT
- NEW ROAD LAYOUT



TECHNICALLY POSSIBLE FOR A TRUCK AND TRAILER UNIT TO MAKE THE TURN BUT REQUIRED TO FULLY CROSS INTO THE OPPOSING TRAFFIC LANE WITH LIMITED VISIBILITY TO OPPOSING TRAFFIC. REFER TO VEHICLE TRACKING REPORT FOR DISCUSSION

1	PRELIMINARY DRAFT	CHLI	BLR	30/08/2023	DESIGNED	BLR	Aug.23	DRAWING STATUS	PRELIMINARY DRAFT
					DRAWN	CHLI	Aug.23		
					DESIGN CHECKED	MGM	Aug.23	PROJECT PHASE	CONCEPT DESIGN
					DRAWING CHECKED	MGM	Aug.23		
					NOT FOR CONSTRUCTION		THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AS APPROVED		
REV	DESCRIPTION	CAD	CHK	DATE	APPROVED	DATE			

CLIENT	MERIDIAN ENERGY
PROJECT	MT MUNRO - MEL WAIRARAPA WIND FARM
TITLE	INTERNAL TRANSMISSION LINE ACCESS OPAKI-KAIPARORO ROAD
SCALE (A3)	1:750
DWG No.	1016884.1000-202
REV	1