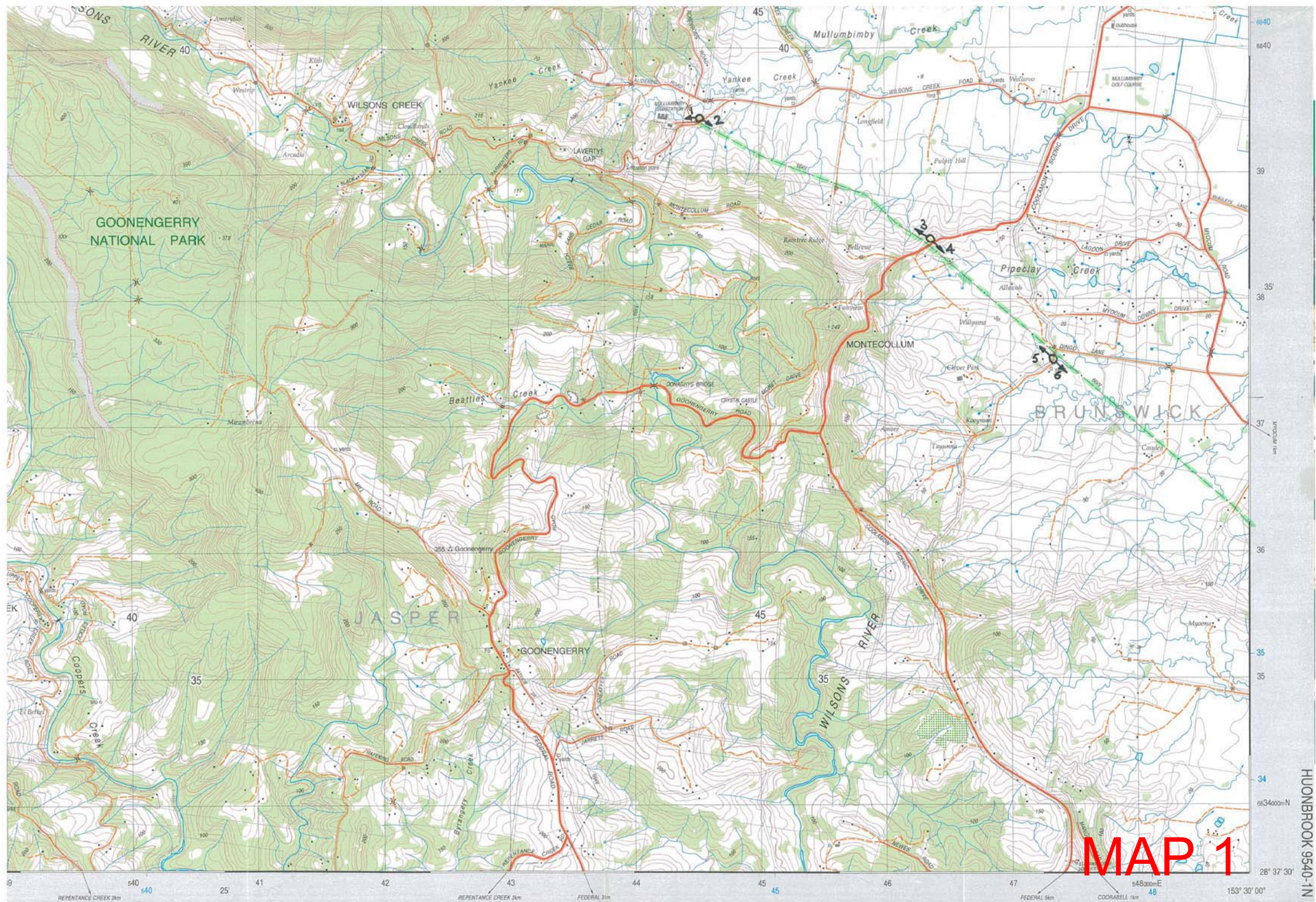
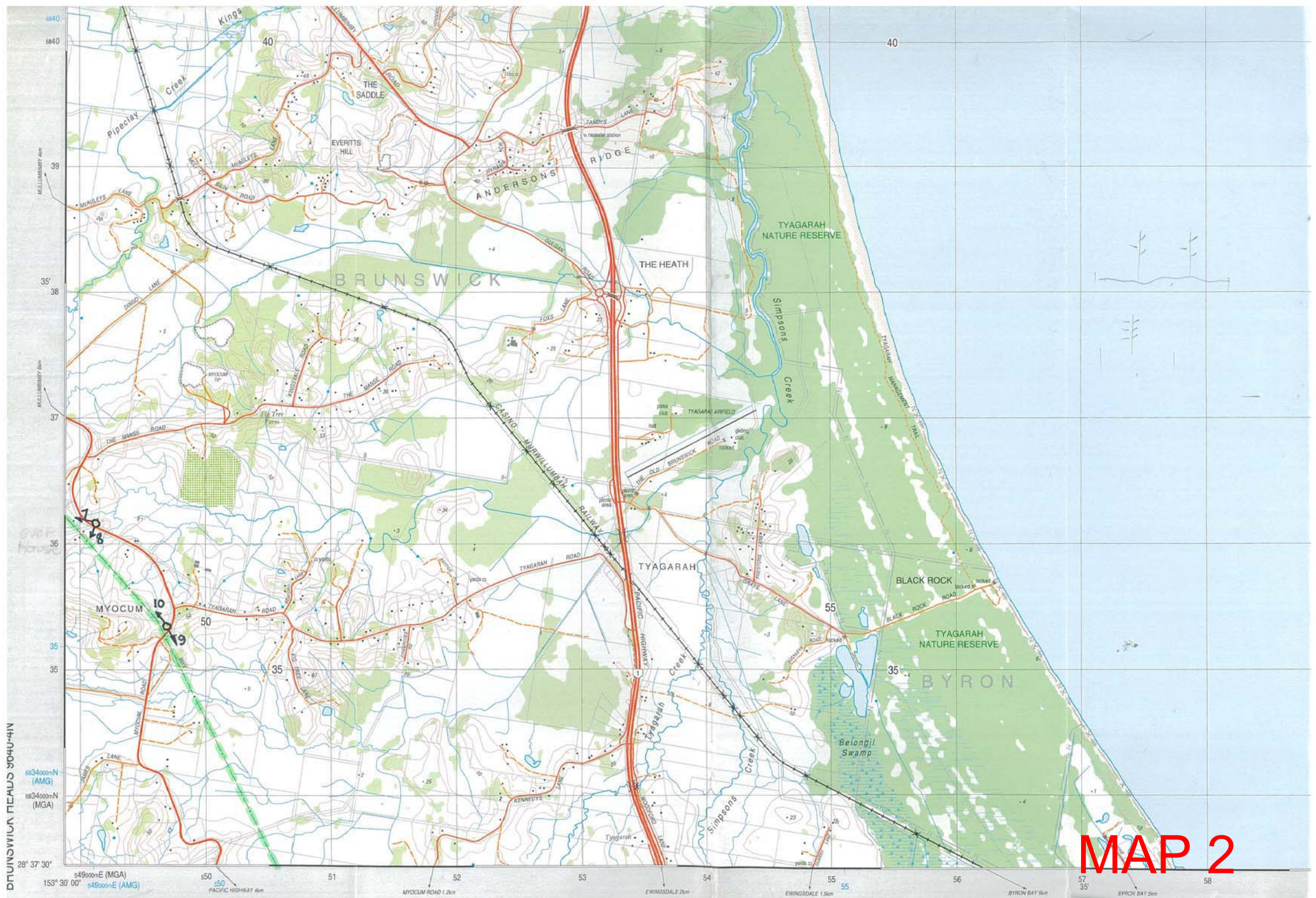
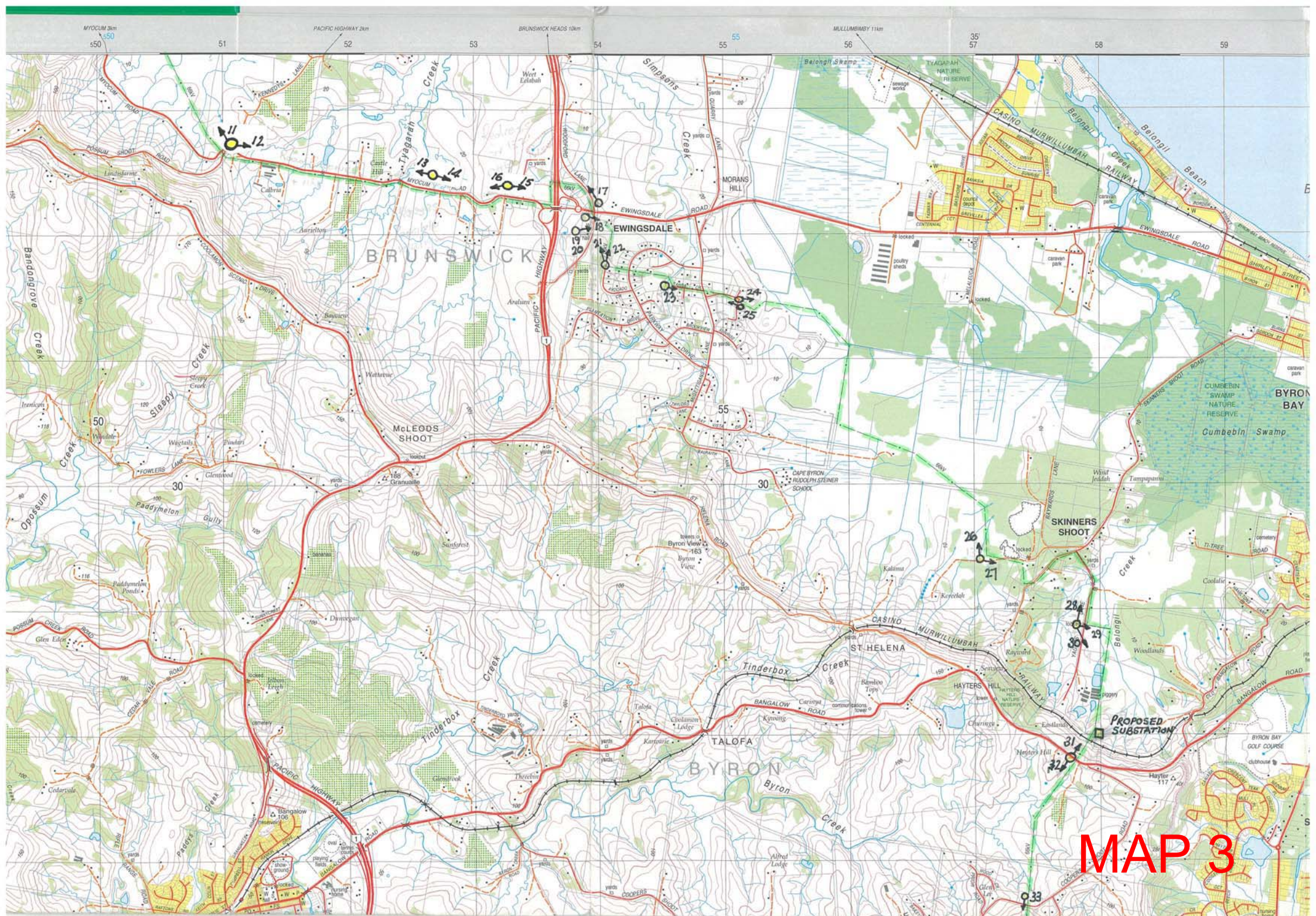


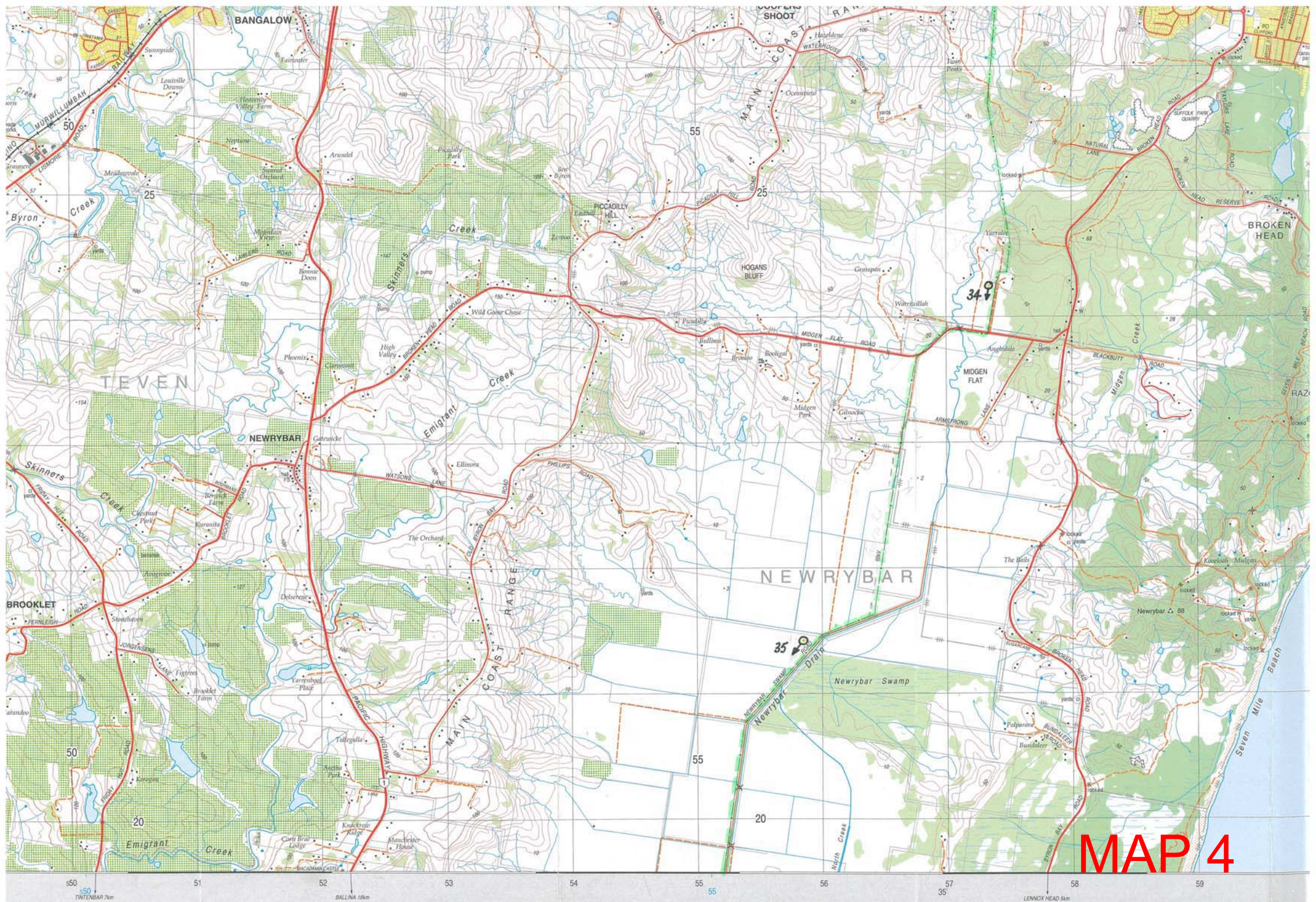




MAP 2

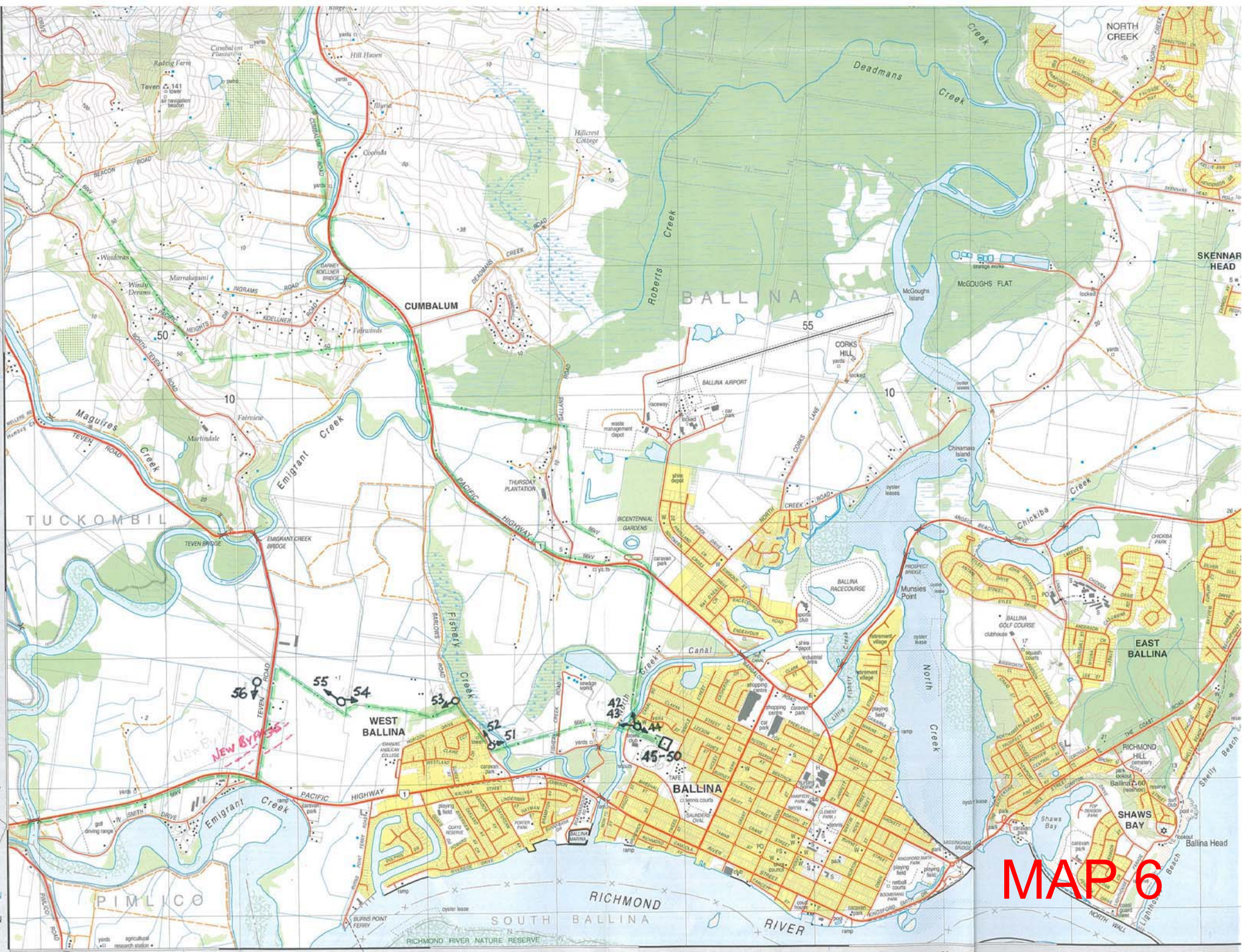


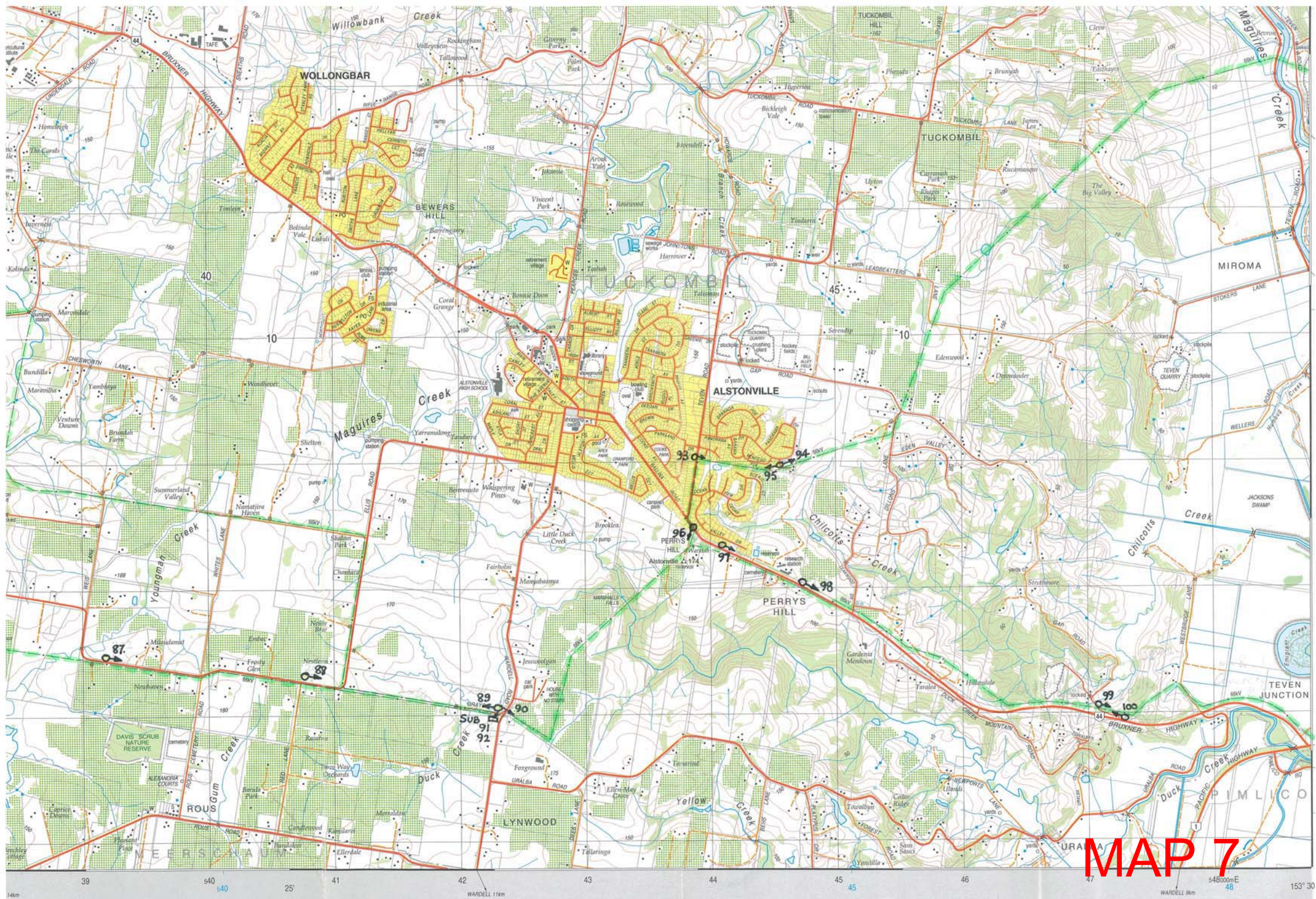
MAP 3



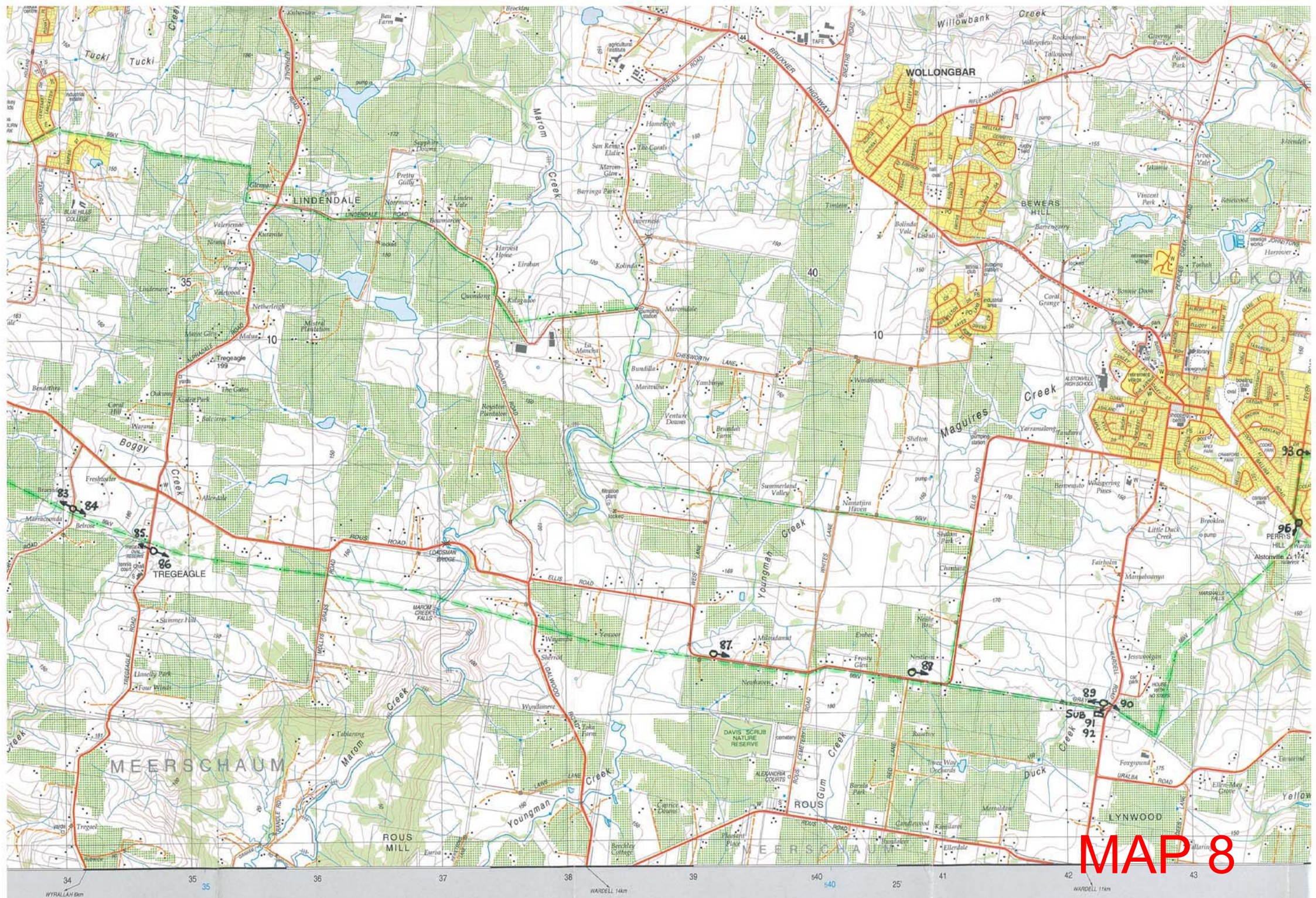


MAP 5

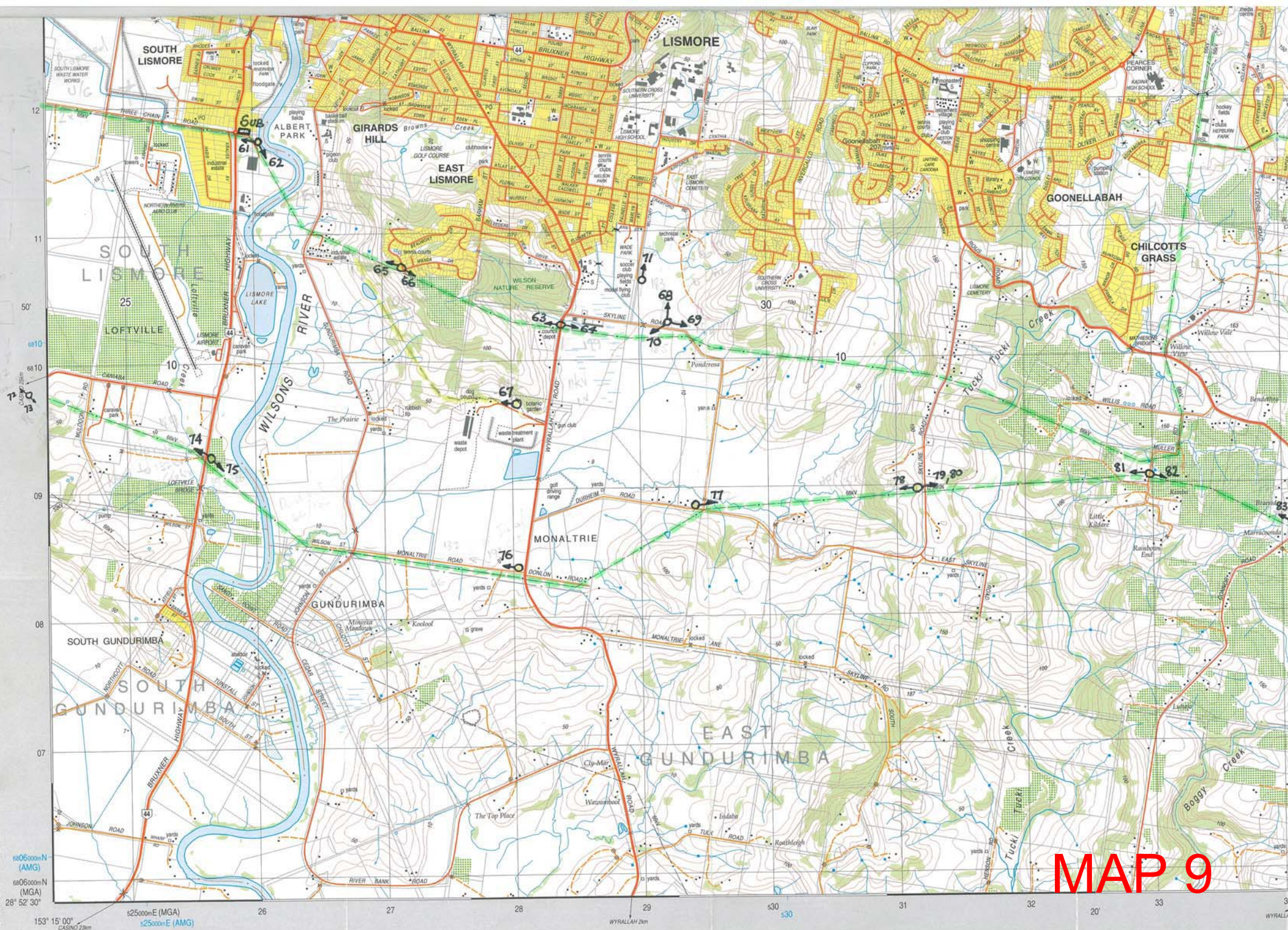


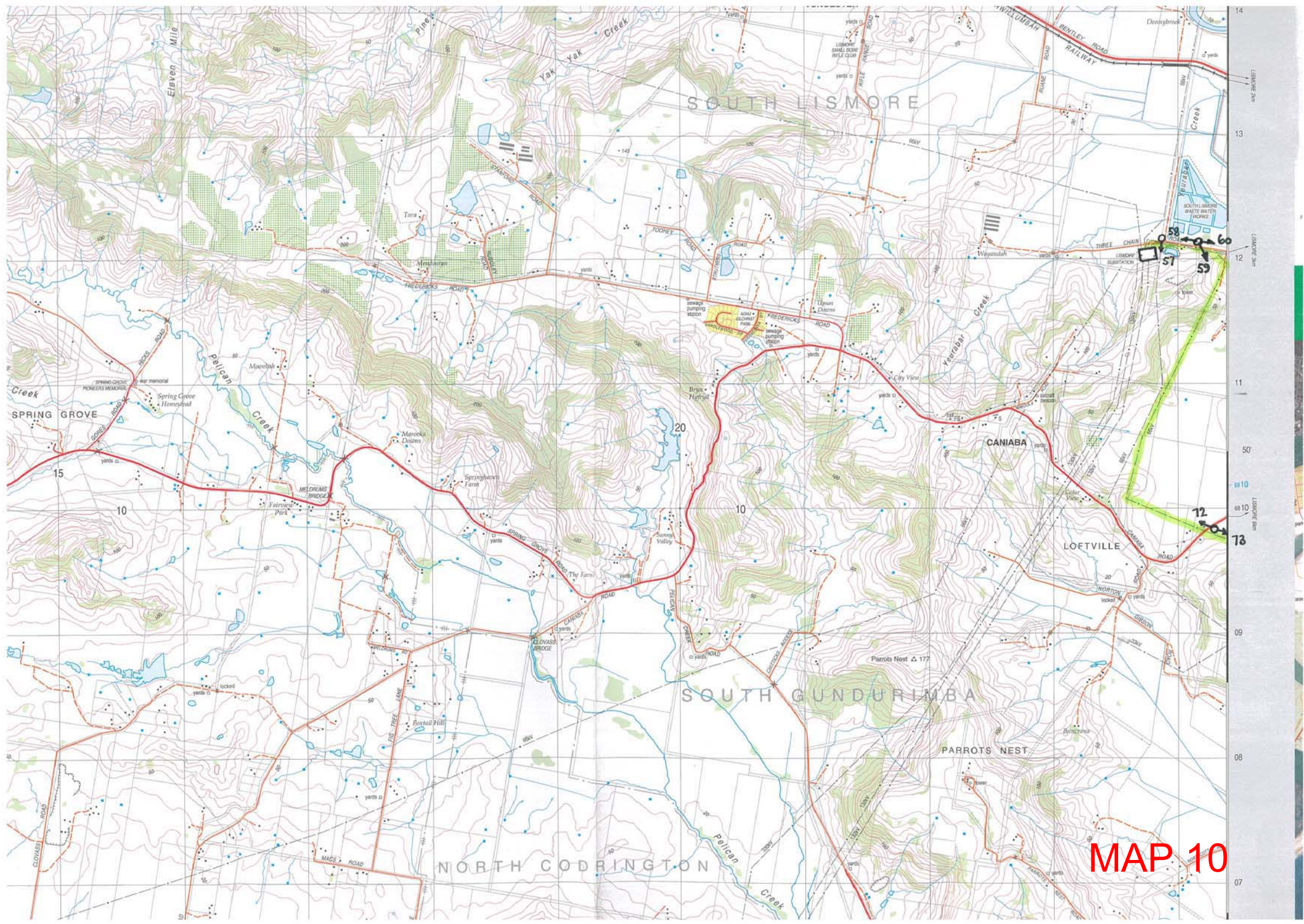


MAP 7



MAP 8

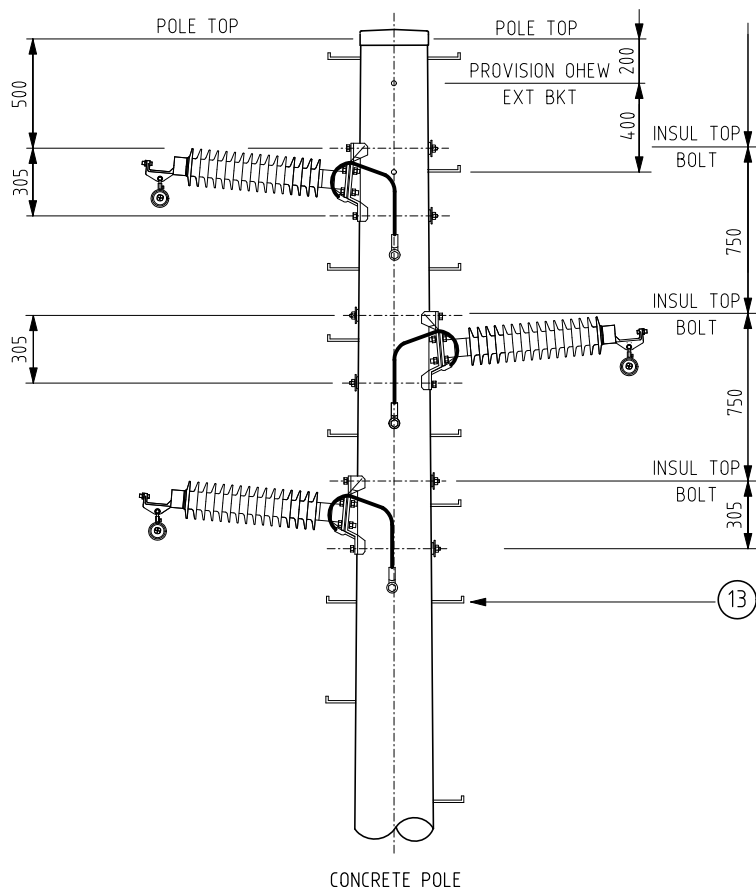




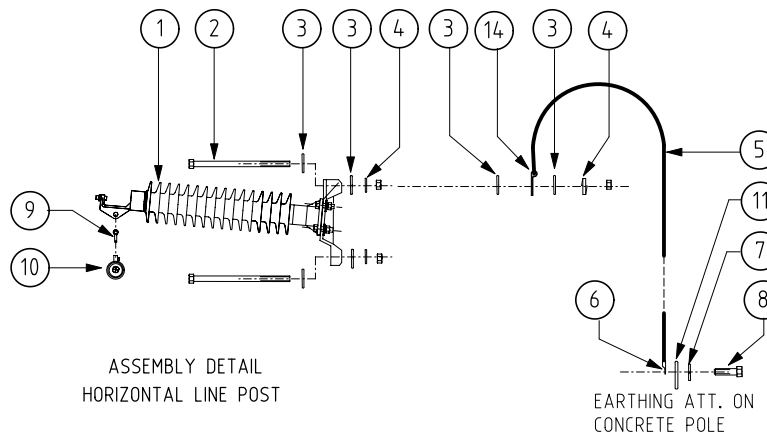
MAP 10

OHEW SUSP'N
REFER TO
CEM7109.36

POLE TOP
OHEW
200
1600



CONCRETE POLE



Earthling NOTES :

1. All steelwork to be earthed.
2. Refer to earthing manual for pole ground earth arrangement.
3. Pole earth not to exceed 10 ohms
4. For OHEW construction refer CEM7109.36.

General

1. Pole steps to be fitted at 450mm centres on alternative sides of the pole to within 8000mm of ground level.
2. This construction is not suitable for live line.
3. For pole foundation detail refer project design.
4. All dimensions in millimetres.
5. Lightly centre punch threads on bolts without conical washers to stop nuts from working loose.
6. Phase spacings shown are minimum. any variation will be detailed within project design.
7. For concrete pole schedule refer drawing- 7401.01 SHEET 2 (with OHEW)
7401.01 SHEET 3 (without OHEW)

14	1	3	EARTH CLIP 7/4.50 20mm HOLE	291460
13	REFER	TABLE	POLE STEP SCREW IN	275790
12	2	6	EYEBOLT M20x400mm C/W NUT GALV	103010
11	1	3	WASHER M12 FLAT ROUND S/S	109580
10	1	3	AGS SUSPENSION UNIT C/W ARMOUR ROD	SUIT CONDUCTOR
9	1	3	SHACKLE D STIRRUP ASSEMBLY	272430
8	1	3	SET SCREW M12x40mm C/W NUT S/S	100340
7	1	3	WASHER M12 SPRING S/S	110450
6	1	3	LUG CRIMP 70mm M12 HOLE Cu	234310
5	1.0m	3.0m	CABLE 70mm 19/2.14 SDI BLACK Cu	442770
4	3	9	WASHER M20 SPRING S/S	110455
3	6	18	WASHER M20 60x4mm FLAT ROUND GALV.	110180
2	2	6	BOLT M20x400mm C/W NUT GALV	106040
1	1	3	INSULATOR 66kV HORIZ LINE POST GAIN BASE MOUNT	261220
Item	Q'ty / ASS	Q'ty Total	Description	CE Cat. No

AMENDMENT DETAILS

SCALE	NTS
ORIG ISSUE DATE	1/06/05
CURRENT ISSUE	ORIGINAL
ISSUE DATE	1/06/05
DRAWN BY	D.J.DARKE/LRW
CHECKED	S.PALMER
PLOT DATE	1/06/05

AUTHORISED BY:

Terry Holmes

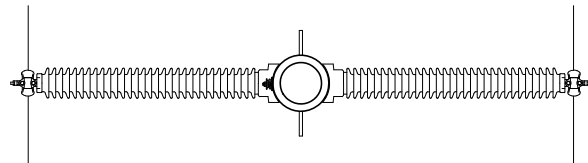
GROUP MANAGER ASSET STRATEGY

CEM7401.01

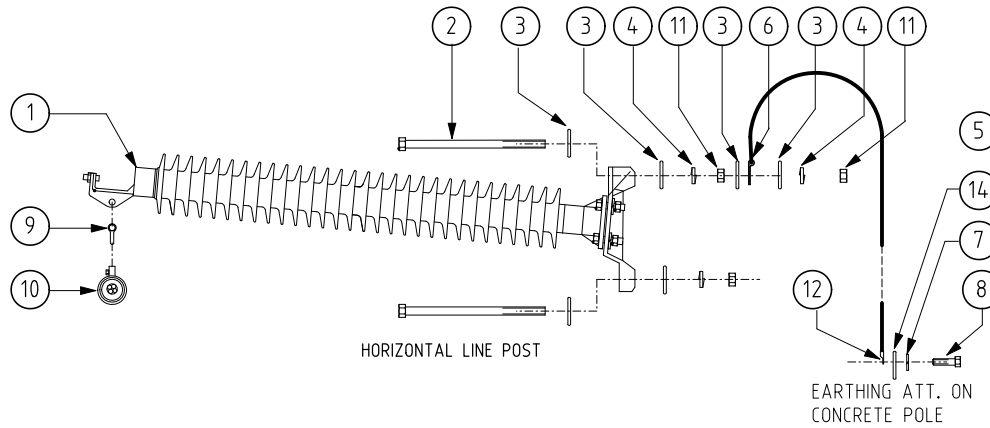
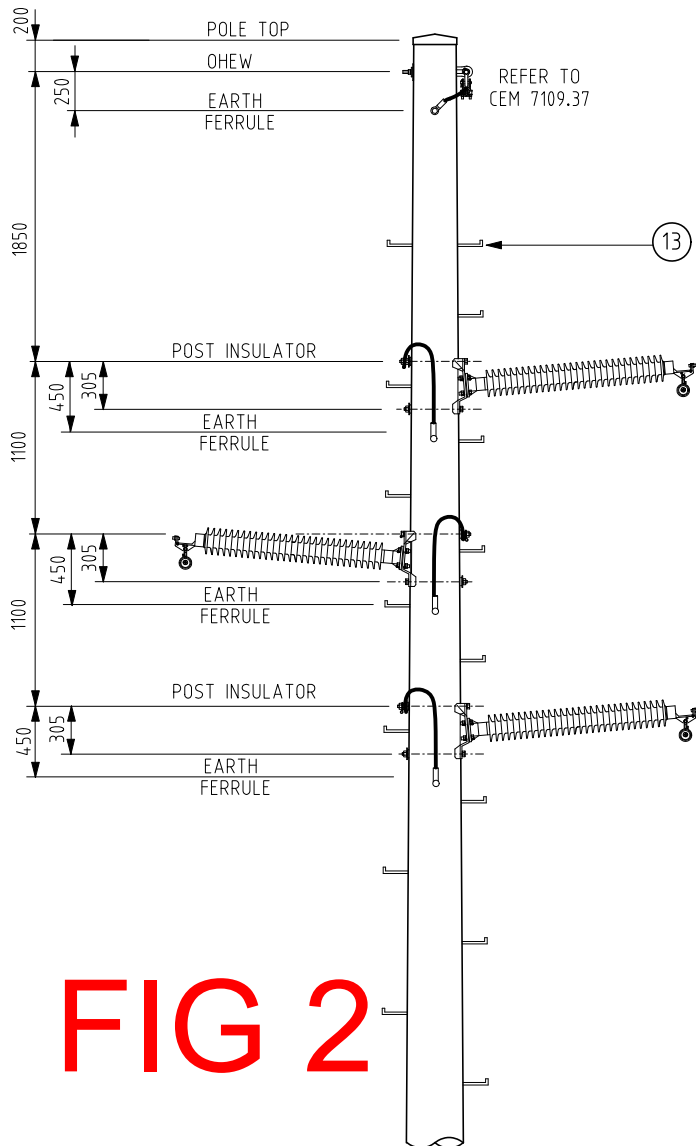
1 of 3 A4

66kV INTERMEDIATE
CONSTRUCTION
USING HORIZONTAL
LINE INSULATORS
ON CONCRETE POLE

FIG 1



TOP VIEW



HORIZONTAL LINE POST

EARTHING ATT. ON CONCRETE POLE

NOTES :

Earthing

1. All steelwork to be earthed.
2. M12 earth fittings on pole are connected to internal earth to ground.
3. Refer to earthing manual for pole ground earth arrangement.
4. Earth to connect to M12 ferrule 300mm above GL
5. Pole earth not to exceed 10 ohms

General

1. Pole steps to be fitted at 450mm centres on alternative sides of the pole to within 8000mm of ground level.
2. For pole footing detail, refer Project Design.
3. All dimensions in millimetres.
4. Lightly centre punch threads on bolts to stop nuts from vibrating loose.
5. Phase spacings shown are minimum. Any variation will be detailed within Project Design.
6. For concrete pole schedule refer drawing- CEM7402.01 sheet 2

14	1	3	WASHER M12 FLAT ROUND S/S	109580
13	REFER TABLE	POLE STEP SCREW IN	275790	
12	1	3	LUG CRIMP 70mm M12 HOLE Cu	234310
11	1	3	NUT M20 GALV. HEX	108950
10	1	3	AGS SUSPENSION UNIT WITH ARMOUR ROD	TO SUIT CONDUCTOR
9	1	3	SHACKLE D STIRRUP ASSEMBLY	272430
8	1	3	SET SCREW M12x40mm C/W NUT S/S	100340
7	1	3	WASHER M12 SPRING S/S	110450
6	1	3	EARTH CLIP 7/4.50 20mm HOLE (REFER DRG A4 ZS00E00)	291460
5	0.7m	2.1m	CABLE 70MM 19/2.14 SDI BLACK Cu	442770
4	3	9	WASHER M20 SPRING S/S	110455
3	6	18	WASHER M20 60x4mm FLAT ROUND GALV	110180
2	2	6	BOLT M20x400mm C/W NUT GALV	106040
1	1	3	INSULATOR 132kV HORIZONTAL LINE POST	261955
Item	Q'ty/Assy	Q'ty Total	Description	Cat. No

AMENDMENT DETAILS

SCALE	NTS
ORIG ISSUE DATE	1/06/05
CURRENT ISSUE	ORIGINAL
ISSUE DATE	1/06/05
DRAWN BY	D.J.DARKE / LRW
CHECKED	S.PALMER
PLOT DATE	1/06/05

AUTHORISED BY:

Terry Holmes
GROUP MANAGER ASSET STRATEGY

CEM7402.01

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132kV OFFSET
INTERMEDIATE
CONSTRUCTION
ON CONCRETE POLE

66kV & 132kV Structure Comparison

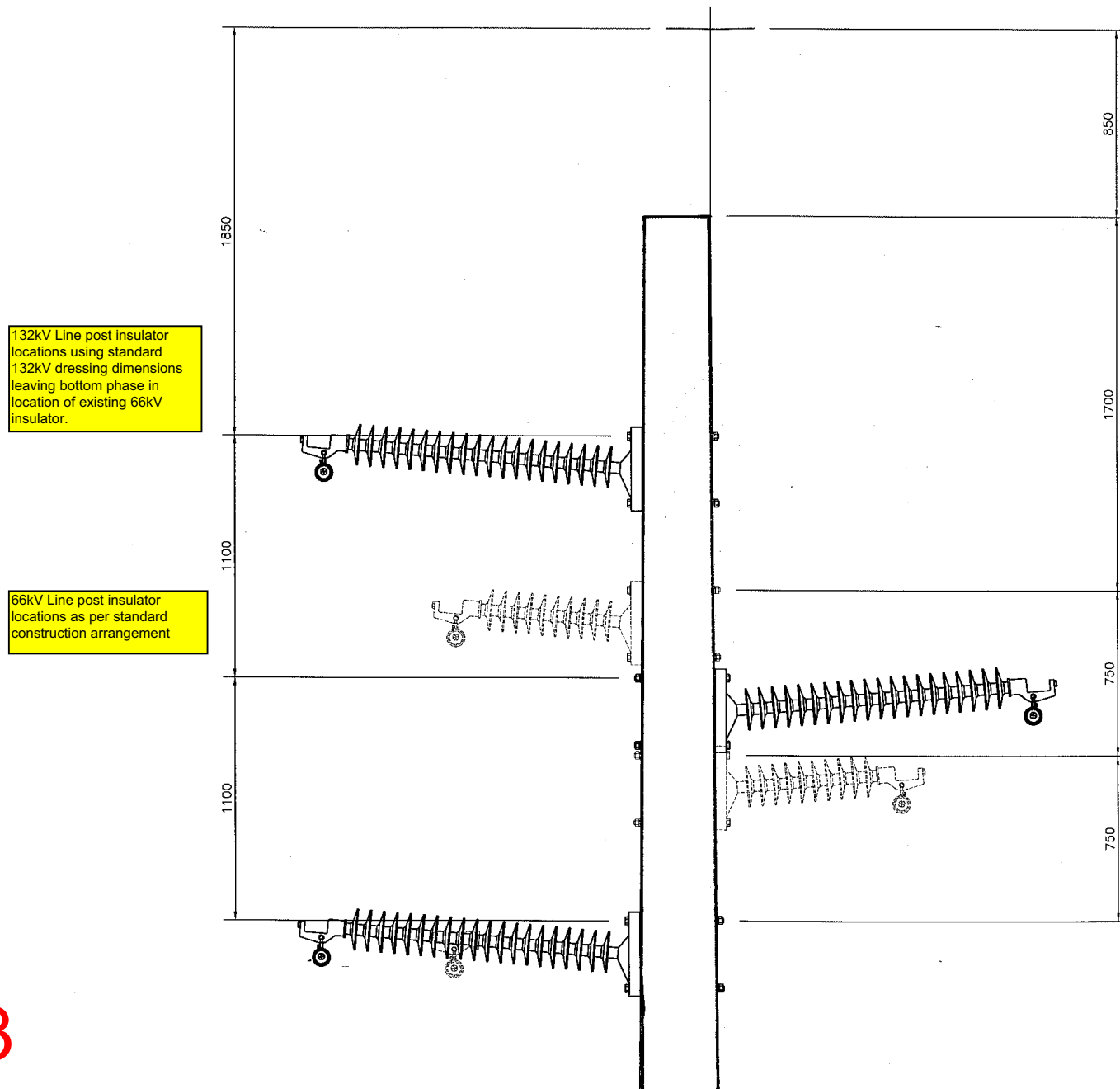


FIG 3

FIG 3