

**APPENDIX 9
PHOTOGRAPHS OF THE STUDY AREA**

ROUTE OPTIONS 1 (preferred option) 2 & 3



Fig. 1: **Route Option 1 & 2:** A – D: View from Doornpoort substation (A) towards hill (D). The existing power lines are visible and the proposed line will run along these lines. It is recommended that these lines be upgraded. The smallholdings are utilized for small scale farming and cattle grazing.



Fig. 2: A-B: Doornpoort substation is at the top of this hill. This area has existing power lines. The area is situated in wetland.



Fig. 3: B-C-D: This area has existing power lines and is situated in wetland.



Fig. 4: C-D: The existing power lines, are visible and continues to the top of the hill.



Fig.5: D - E: The proposed power lines will cross the Klein Olifants River at this point.



Fig.6: D - E: The existing lines run parallel with the N4. It is recommended that the lines be upgraded from D until passes the Heritage 1 features in order to avoid impact on this feature. The lines are approximately 40m from the feature towards the north. Game farming is one of the activities in this section.



Fig. 7: H1: The stone enclosure between points D - E. It is situated approximately 40m from the existing power lines.



Fig. 8: H1: Next to the stone enclosure is a midden.



Fig. 9: View where **Option 2 & 3** (south of N4) are proposed. These options are not the preferred options. The area down the hill is situated in wetland and is a drainage line.



Fig. 10: **Option 3** (green): Area in which **Option 3** is proposed. The area is used for cattle grazing at the top, and the wetland area is visible just next to the cattle, with the Witbank Dam in the background. Maize fields are to the right.



Fig. 11: Sections in **Options 2 & 3** are highly disturbed with cultivated land (maize, arigrostis). This is also the area where the 3 options join on the southern side of the N4 (before the weigh bridge).



Fig. 12: This entire area is cultivated land (with wetland sections), maize & arigrostis as well as cattle grazing. The N4 is visible on the left.



Fig. 13: **Options 1 & 2:** G-H-I-J-K (purple & pink): The entire area is highly disturbed with cultivated land (arigrostis) in the foreground. From here the proposed line crosses the R575.



Fig. 14: G1: This burial site is approximate 100m to the south of the proposed **Option 1 & 2** (purple & pink).



Fig. 15: G1: One of the marked graves of the same burial site.



Fig. 16: This view of is adjacent the R575 and shows the disturbed farmland area. Cattle grazing land in the foreground with the maize fields and blue gum plantation in a distance. This photo was taken just before it crosses the R575. The next point is at the proposed **B MTS substation**, on the opposite side of the road.

PROPOSED B MTS SUBSTATION



Fig. 17: The site of the proposed **B MTS substation**. The first sections of **Options 1 & 2** join at this point.



Fig. 18: The site of the proposed **B MTS substation**. This area is entirely situated in past and present cultivated land. Currently this section is used as a loading zone for wood with squatter shacks on the opposite side.

OPTIONS 3 & 1 (Purple & Pink), after the B MTS substation:



Fig. 19: M - N: This section is entirely disturbed with cultivated land and cattle grazing area. The proposed line goes in a northerly direction through cattle grazing land.



Fig. 20: View from the north towards the proposed **B MTS substation** in the south. The view of this area from a distance, show the highly disturbed section with cultivated land as well as coal mining activity.



Fig. 21: **Options 3** (preferred) & 1: Points O, P, Q: The proposed line will go next to the coal mine to cross the N4 in a northern direction.



Fig. 22: **Option 3** (preferred option) Points Q - R: This section is once again situated in highly disturbed mining and industrial area, before it crosses the N4.



Fig. 23: **Option 3** (purple preferred option): Point S: This section is on the north side of the N4, at the point where the proposed lines will meet up with existing power lines from the **Rockdale A substation**.



Fig. 24: This is directly north of the N4 and is highly disturbed mining and industrial area close to point S.

OPTION 2 (GREEN ROUTE)



Fig. 25: P - R: This section is situated in current wattle plantation (Photo taken at point P (green) where the proposed line will go.



Fig. 26: Point P (green) – P (purple): Follows existing power lines.

Middelburg substation: 1 km to a new Steve Tswete substation



Fig. 27: Middelburg substation. The proposed new line will go in a westerly direction for 1 km to a new substation.



Fig. 28: The existing lines from the Middelburg substation, facing west.



Fig. 29: The same lines facing east. There are already at least 6 lines of various voltage and it is proposed that one of the lines be upgraded. This area has no heritage features or graves, should the Client want to install a new line.