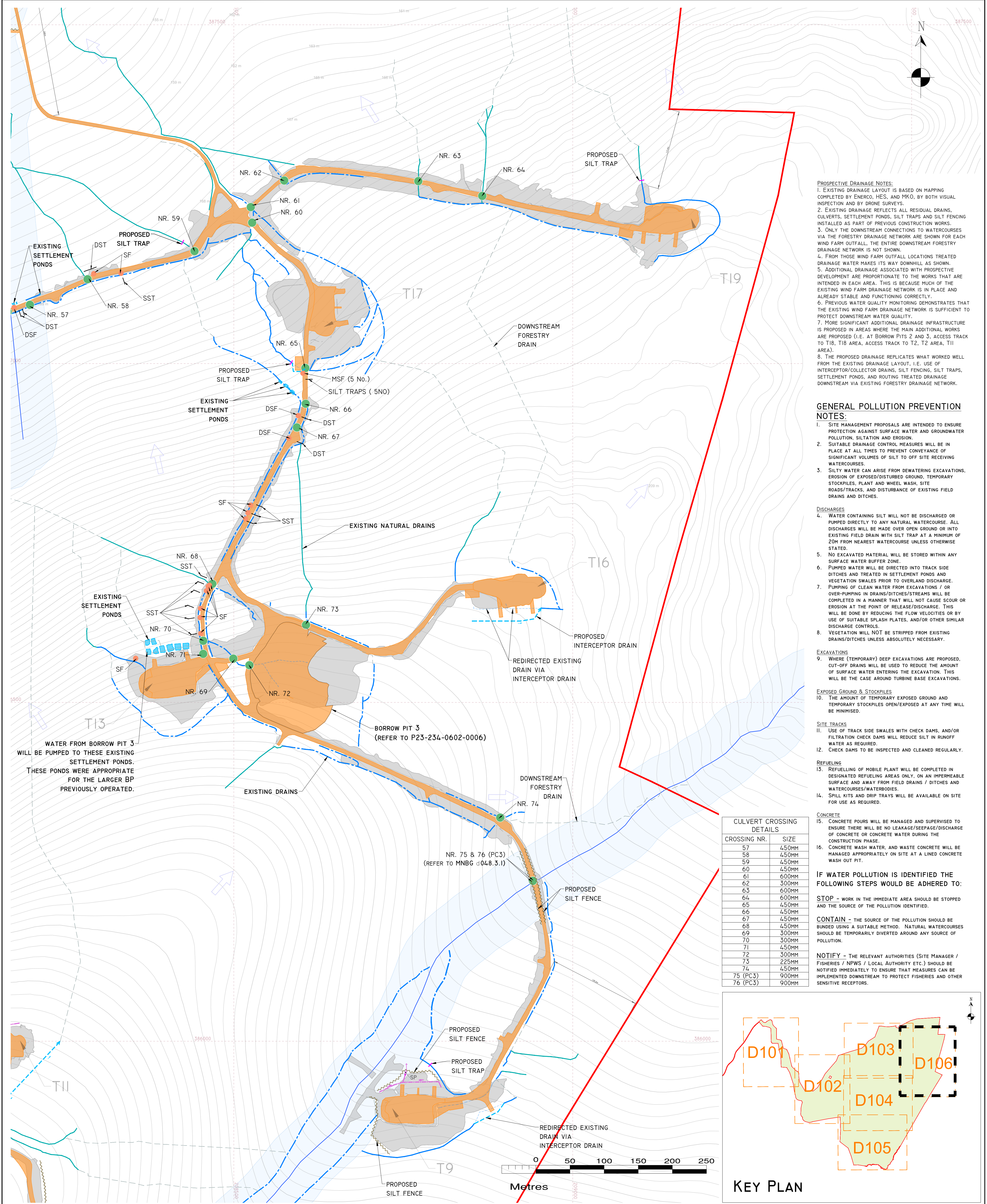




- PROSPECTIVE DRAINAGE NOTES:**
1. EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENERCO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.
 2. EXISTING DRAINAGE REFLECTS ALL RESIDUAL DRAINS, CULVERTS, SETTLEMENT PONDS, SILT TRAPS AND SILT FENCING INSTALLED AS PART OF PREVIOUS CONSTRUCTION WORKS.
 3. ONLY THE DOWNSTREAM CONNECTIONS TO WATERCOURSES VIA THE FORESTRY DRAINAGE NETWORK ARE SHOWN FOR EACH WIND FARM OUTFALL, THE ENTIRE DOWNSTREAM FORESTRY DRAINAGE NETWORK IS NOT SHOWN.
 4. FROM THOSE WIND FARM OUTFALL LOCATIONS TREATED DRAINAGE WATER MAKES ITS WAY DOWNHILL AS SHOWN.
 5. ADDITIONAL DRAINAGE ASSOCIATED WITH PROSPECTIVE DEVELOPMENT ARE PROPORTIONATE TO THE WORKS THAT ARE INTENDED IN EACH AREA. THIS IS BECAUSE MUCH OF THE EXISTING WIND FARM DRAINAGE NETWORK IS IN PLACE AND ALREADY STABLE AND FUNCTIONING CORRECTLY.
 6. PREVIOUS WATER QUALITY MONITORING DEMONSTRATES THAT THE EXISTING WIND FARM DRAINAGE NETWORK IS SUFFICIENT TO PROTECT DOWNSTREAM WATER QUALITY.
 7. MORE SIGNIFICANT ADDITIONAL DRAINAGE INFRASTRUCTURE IS PROPOSED IN AREAS WHERE THE MAIN ADDITIONAL WORKS ARE PROPOSED (I.E. AT BORROW PITS 2 AND 3, ACCESS TRACK TO T18, T18 AREA, ACCESS TRACK TO T2, T2 AREA, T11 AREA).
 8. THE PROPOSED DRAINAGE REPLICATES WHAT WORKED WELL FROM THE EXISTING DRAINAGE LAYOUT, I.E. USE OF INTERCEPTOR/COLLECTOR DRAINS, SILT FENCING, SILT TRAPS, SETTLEMENT PONDS, AND ROUTING TREATED DRAINAGE DOWNSTREAM VIA EXISTING FORESTRY DRAINAGE NETWORK.

- GENERAL POLLUTION PREVENTION NOTES:**
1. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
 2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

- DISCHARGES**
4. WATER CONTAINING SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
 5. NO EXCAVATED MATERIAL WILL BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
 6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

- EXCAVATIONS**
9. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

- EXPOSED GROUND & STOCKPILES**
10. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

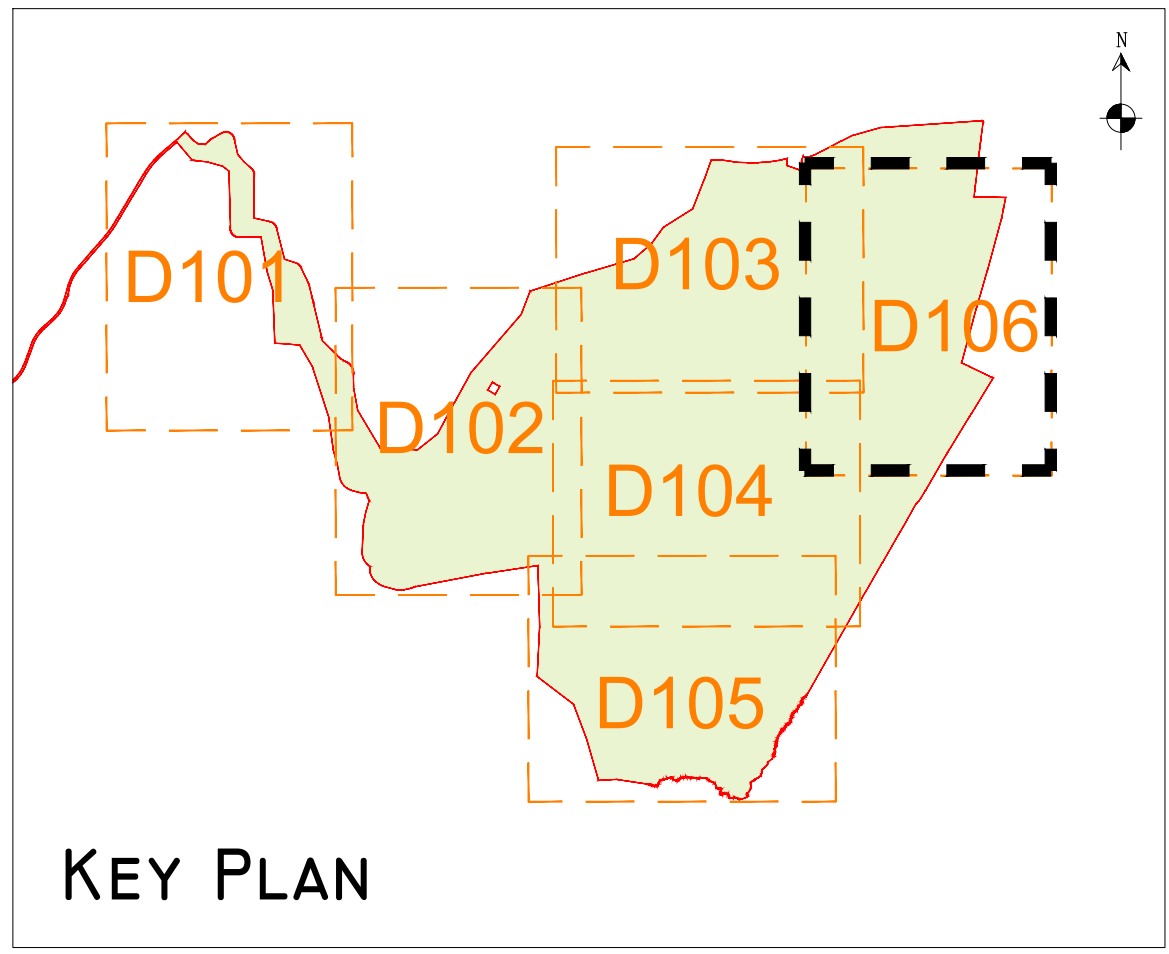
- SITE TRACKS**
11. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
 12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

- REFUELLING**
13. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

- CONCRETE**
15. CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
 16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT.

- IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:**
- STOP** – WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.
- CONTAIN** – THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND ANY SOURCE OF POLLUTION.
- NOTIFY** – THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE RECEPTORS.

CULVERT CROSSING DETAILS	
CROSSING NR.	SIZE
57	450MM
58	450MM
59	450MM
60	450MM
61	600MM
62	300MM
63	600MM
64	600MM
65	450MM
66	450MM
67	450MM
68	450MM
69	300MM
70	300MM
71	450MM
72	300MM
73	225MM
74	450MM
75 (PC3)	900MM
76 (PC3)	900MM



DRAWING LEGEND :

PLANNING APPLICATION BOUNDARY

EXISTING DEVELOPMENT FOOTPRINT

SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO MOD MALIN HEAD

SLOPE / DRAINAGE DIRECTION

WATERCOURSES

WATERCOURSE BUFFER 50M

LAKES

LAKES 50M BUFFER

EXISTING NATURAL DRAINS

DOWNSTREAM FORESTRY DRAIN

EXISTING DRAINS

EXISTING SETTLEMENT PONDS

EXISTING CULVERT LOCATIONS

EXISTING SILT FENCES (SF*)

*SF - SINGLE SILT FENCE,

DSF - DOUBLE SILT FENCE,

MSF - MULTIPLE SILT FENCES

EXISTING SILT TRAPS (SST*)

*SST - SINGLE SILT TRAP,

DST - DOUBLE SILT TRAP,

MST - MULTIPLE SILT TRAPS

UPSTREAM INTERCEPTOR DRAIN

SWALES / DOWNSTREAM COLLECTOR DRAIN

SETTLEMENT POND - VEGETATION FILTER - LEVEL SPREADER

CHECK DAM 'TYPE B'

DIRECTION OF FLOW

PROPOSED SILT FENCE

PROPOSED SILT TRAPS (PST)

SETTLEMENT POND

PROSPECTIVE DEVELOPMENT FOOTPRINT

EXISTING NATURAL DRAINAGE

EXISTING BUILT DRAINAGE

PROPOSED DRAINAGE

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Revisions			

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Title: **PROSPECTIVE DEVELOPMENT DRAINAGE LAYOUT SHEET 6 OF 6**

Figure No: **D106**

Drawing No: **P1249-9-0626-A1-D106-00A**

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