



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



PHOTO 8



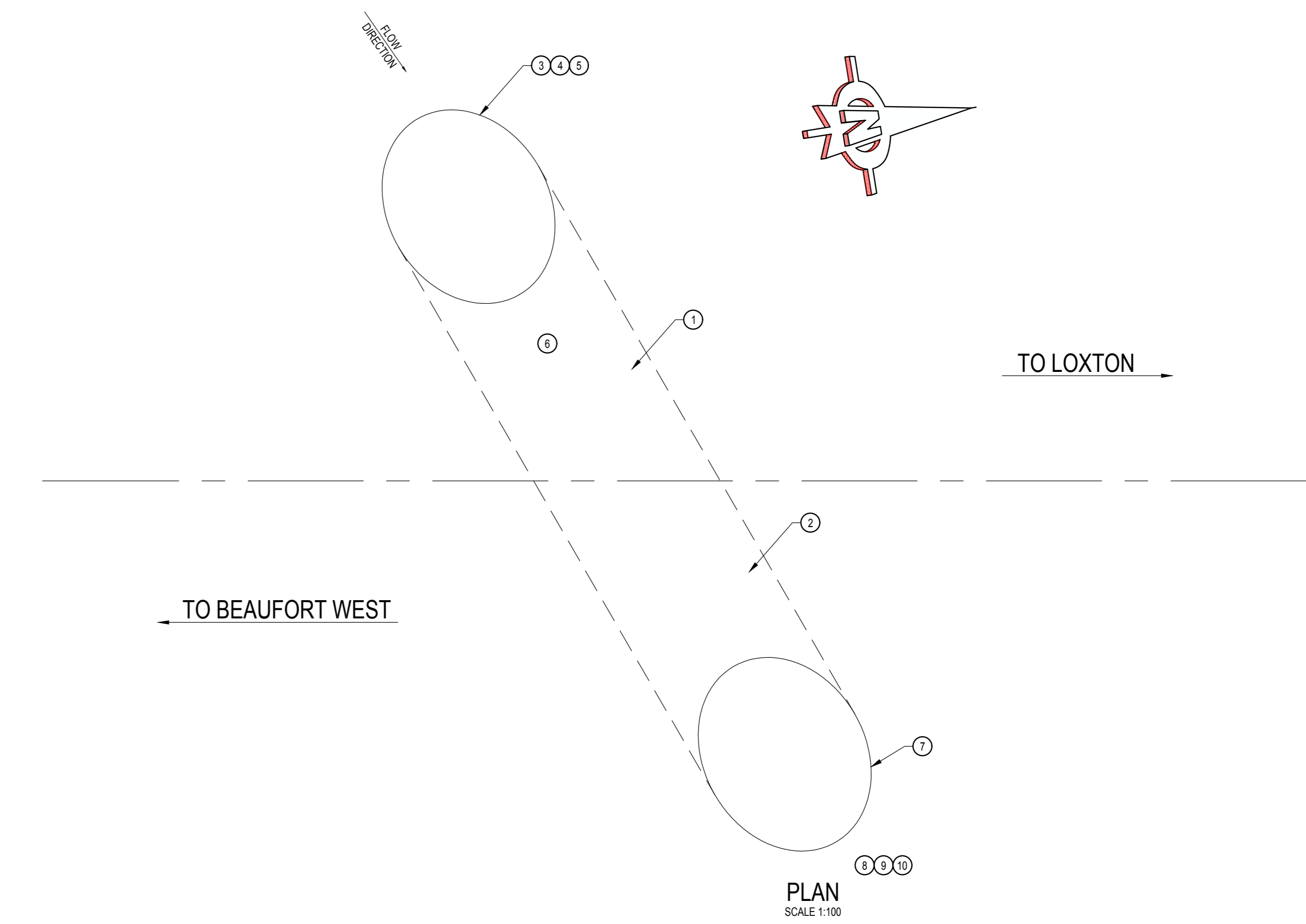
PHOTO 9



PHOTO 10

| DEFECTS AND REPAIR STRATEGY FOR MAJOR CULVERT No. 11409 | | | | | | |
|---|-----------------|---|----------------------|-------------------|--|-----------------------|
| DEFECT | PHOTO REFERENCE | REPAIR STRATEGY | REFERENCE DRAWINGS | REFERENCE DETAILS | PAYMENT ITEMS | *RECOMMENDED PRODUCTS |
| GUARDRAIL POSTS NOT INSTALLED ACCORDING TO SPECIFICATIONS | 1 | RE-INSTALL GUARDRAIL POSTS TO SPECIFICATIONS | 34161.00C-215-04-102 | DETAIL 9 | 5400 | - |
| DAMAGED SIDE DRAIN ABOVE CULVERT | 2 | REPAIR AFFECTED PORTION OF SIDE DRAIN | WCS/54/1/C2 | CONCRETE KERBING | 23.02 | - |
| ARMCO BARREL SEVERELY DEFORMED AT INLET | 3-5 | REMOVE AND REPLACE AFFECTED ARMCO PANELS AND CONSTRUCT REINFORCED CONCRETE RIM LINING WITH CUT OFF WALL | TBC | - | 2200, 6100, 6200, 6300, 6400, 6600 | - |
| INVERT SLAB SEVERELY DAMAGED | 6 | DEMOLISH AND RECONSTRUCT INVERT SLAB WITH REINFORCED CONCRETE | TBC | - | 2200, 6200, 6300, 6400, 6600 | - |
| UN SOUND STRUCTURAL PROTECTION OF ARMCO RIM AT OUTLET | 7 | CONSTRUCT REINFORCED CONCRETE RIM LINING WITH CUT OFF WALL | TBC | - | 2200, 6100, 6200, 6300, 6400, 6600 | - |
| SCOUR AND WATERWAY EROSION AT OUTLET | 8-10 | BACKFILL AFFECTED AREA AND CONSTRUCT GABIONS | TBC | - | 51.01, 51.05, 52.02, 52.03, 52.04, 61.02 | - |

*NOTE: LISTED REPAIR PRODUCTS ARE FOR ILLUSTRATIVE PURPOSES ONLY. SIMILAR APPROVED PRODUCTS MAY BE USED. REFER TO RELEVANT PROJECT SPECIFICATIONS.



| No. | DATE | ADDITIONS AND AMENDMENTS | APPROVED | | DESIGNED BY: | C. de KOCK |
|-----|----------|--------------------------|------------|-----|--------------|--------------|
| | | | CONS. ENG. | PRE | | |
| V1 | 30.10.20 | ORIGINAL VERSION | AG | | CHECKED BY: | M. KATHRADA |
| | | | | | DRAWN BY: | G. vd SCHYFF |
| | | | | | CHECKED BY: | A. SMIT |

VERA CELEBRATION EST 1967-2017
• ENGINEERING • PROCUREMENT • MANAGEMENT

CONSULTING ENGINEERS
DATE

APPROVED
THIS APPROVAL IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWSOEVER ARISING
PROVINCIAL ROADS ENGINEER
DATE

PROPOSED REPAIR OF MAJOR CULVERT No. 11409 ON TRUNK ROAD 5801 AT KM7.74

DEFECTS AND REPAIR STRATEGY

| | |
|--|----------------------------------|
| P.R.E.'s FILE No. 16/64/114-TR05801-C1183 | SCALE AS SHOWN |
| CONTRACT No. C1183 | WCG STRUCTURES PLAN No. 11409 |
| CONSULTANT'S PLAN No. 33435.00C-215-04-84 | WCG INDEX No. VER V1 |