

LEGEND	
	EXISTING IRRIGATION AREAS
	FENCE
	FULL SUPPLY LEVEL
	ROAD
	DCC VALVE
	TEST PIT
	SETTLEMENT BEACON

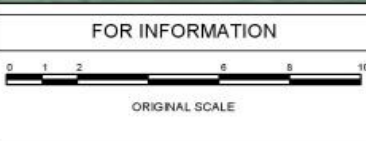
ELOHIM DAM: OPTION 6	
1. NOCL:	59.4 m
2. FSL:	57.4 m
3. FREEBOARD:	2 m
4. WATER SURFACE AREA AT FSL:	8.1 ha
5. GROSS CAPACITY:	322 000 m <sup>3</sup>
6. CREST LENGTH:	806 m
7. CREST WIDTH:	4 m
8. MAX WALL HEIGHT:	13.4 m
9. UPSTREAM SLOPE:	1V:3H
10. DOWNSTREAM SLOPE:	1V:2H
11. MIN BASIN LEVEL:	48.50 m

- ADDITIONAL NOTES:**
- CORE TRENCH WIDTH:  
 $W_c = [E_w - E_f] \times 0.25 + 3$   
 $W_t = \text{TRENCH WIDTH}$   
 $E_f = \text{BASE ELEVATION OF TRENCH (meat)}$   
 $E_w = \text{FULL SUPPLY LEVEL OF MAXIMUM DAM SIZE} = 57.4 \text{ m}$
  - SETTLEMENT ALLOWANCE OF 2% OF WALL HEIGHT. THIS MEANS FOR A HEIGHT OF 13.4m THE NOC MUST BE AT 59.7 m.
  - CONTOUR INTERVAL 1m
  - PROJECTION: L021 - WGS 84

THE MASTER HELD AT INGEROP OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL

No.	DATE	REVISION	BY
0	04/17	FOR INFORMATION	DJ HAGEN CONSULT. ENG.

NOTES



GENERAL NOTES  
 NO DIMENSION OR LEVEL TO BE SCALED OFF THIS DRAWING  
 ALL DIMENSIONS AND LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION  
 THE POSITION OF ALL EXISTING SERVICES ARE TO BE OBTAINED FROM THE MUNICIPAL AUTHORITIES AND IF UNKNOWN THE EXACT POSITION SHALL BE DETERMINED BY CAREFUL HAND EXCAVATION.

CLIENT:  
**ARBEIDSGENOT FARM MOORREESBURG**  
 7310



**PROPOSED ELOHIM DAM**

**PLAN LAYOUT OF OPTION 6**

SCALE: 1:1000 DRAWING SIZE: A1

DESIGNED BY H. BOTHA (PROF. REG. NO.)	DRAWING CHECKED BY DJ. HAGEN (PROF. REG. NO.)
DRAWN BY J. MBENGA	DATE APR 2017
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