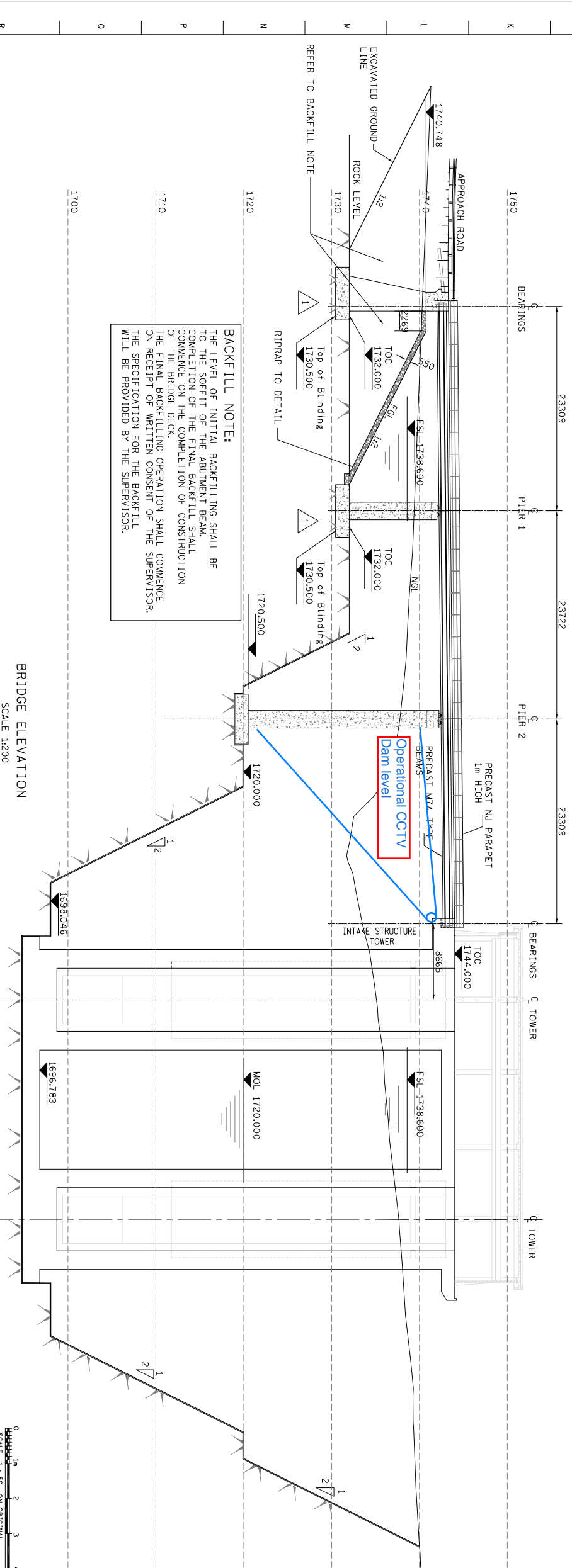
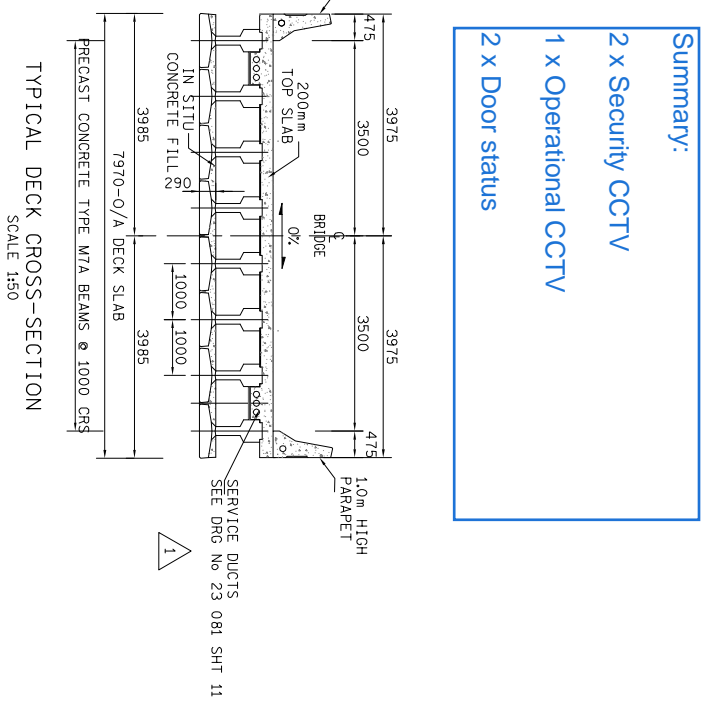


CO-ORDINATE LIST FOR ROAD TO OUTLET – WCS 84				
SETTING OUT POINTS				
NODE	CHAINAGE (m)	X (m)	Y (m)	
IB 2	110.649	3 126 520.673	-57 360.723	
IB 3	133.958	3 126 523.204	-57 383.894	
IB 4	157.680	3 126 525.780	-57 407.476	
IB 5	180.988	3 126 528.311	-57 430.647	



BACKFILL NOTE:
THE LEVEL OF INITIAL BACKFILLING SHALL BE TO THE SOFFIT OF THE ABUTMENT BEAM. COMPLETION OF THE FINAL BACKFILL SHALL COMMENCE ON THE COMPLETION OF CONSTRUCTION OF THE BRIDGE DECK. THE FINAL BACKFILLING OPERATION SHALL COMMENCE ON RECEIPT OF WRITTEN CONSENT OF THE SUPERVISOR. THE SPECIFICATION FOR THE BACKFILL WILL BE PROVIDED BY THE SUPERVISOR.

BRIDGE ELEVATION
SCALE 1:200



Security CCTV
Surge shafts

Door status
Big and pedestrian door

Security CCTV

Summary:
2 x Security CCTV
1 x Operational CCTV
2 x Door status

- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED
 - ALL DISTANCES (CHAINAGES) SHOWN ARE IN METRES (m)
 - ALL LEVELS SHOWN ARE IN METRES ABOVE SEA LEVEL (masl)
 - FOR SETTING OUT DETAILS REFER TO DRG No 23 080 SH1 1
 - CONCRETE CLASS SHALL BE: COLUMNS & ABUTMENT - 40/19 MPa DECK SLAB & INFILL - 40/19 MPa PRESTRESSED BEAMS - 50/13 MPa PREFABRICATED PARAPETS - 35/19 MPa BLINDING - 20/19 MPa
 - CONSTRUCTION JOINTS SHALL ONLY BE ALLOWED AT LOCATIONS APPROVED BY THE SUPERVISOR AND SHALL BE IN ACCORDANCE WITH CLAUSE 14.12.1 OF THE SPECIFICATION.
 - A VERTICAL GAP OF 75mm BETWEEN THE BEARING PLINTH AND THE DECK SOFFIT AT THE BEARING MIDPOINT IS ALLOWED FOR THE PLACEMENT OF BEARINGS
 - 75mm DIA WEEPHOLES SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS
 - CONCRETE FINISHES:
PARAPETS – F3
EXPOSED – F2
BURIED – F1
UNFORMED SURFACES : BURIED – U1
EXPOSED – U2

ISSUED FOR CONSTRUCTION
DATE : 21/07/2010
BCJV AUTH BY : T. M. NAIDOO
BCJV APP BY : B. MARRAI
ESKOM APP BY : D. PADAYACHEE

DRG 23 081 = 12 SHEETS
UNDERGROUND WORKS

ARCUS GIEB

SSI

Knight Priced

BRAAMHOEK CONSULTANTS JOINT VENTURE

FOR REFERENCE DRAWINGS, REFER TO DRAWING 23 908

1	21/07/2010	FOUNDING LEVEL OF ABUTMENT AND PIER 1 REVISED	TN	BM	TN	BM
2	01/08/2010	FIRST ISSUE FOR CONSTRUCTION	TN	BM	TN	BM

FOR REFERENCE DRAWINGS REFER TO NOTE ON DRAWING

APPROVED BY :
BCJV
APP BY : B. MARRAI
ESKOM
APP BY : D. PADAYACHEE

INGULA PUMPED STORAGE SCHEME
INTAKE STRUCTURE
BRIDGE
GENERAL LAYOUT

SCALE 1 : 200 ON ORIGINAL

0.83/23 081

SHEET 1