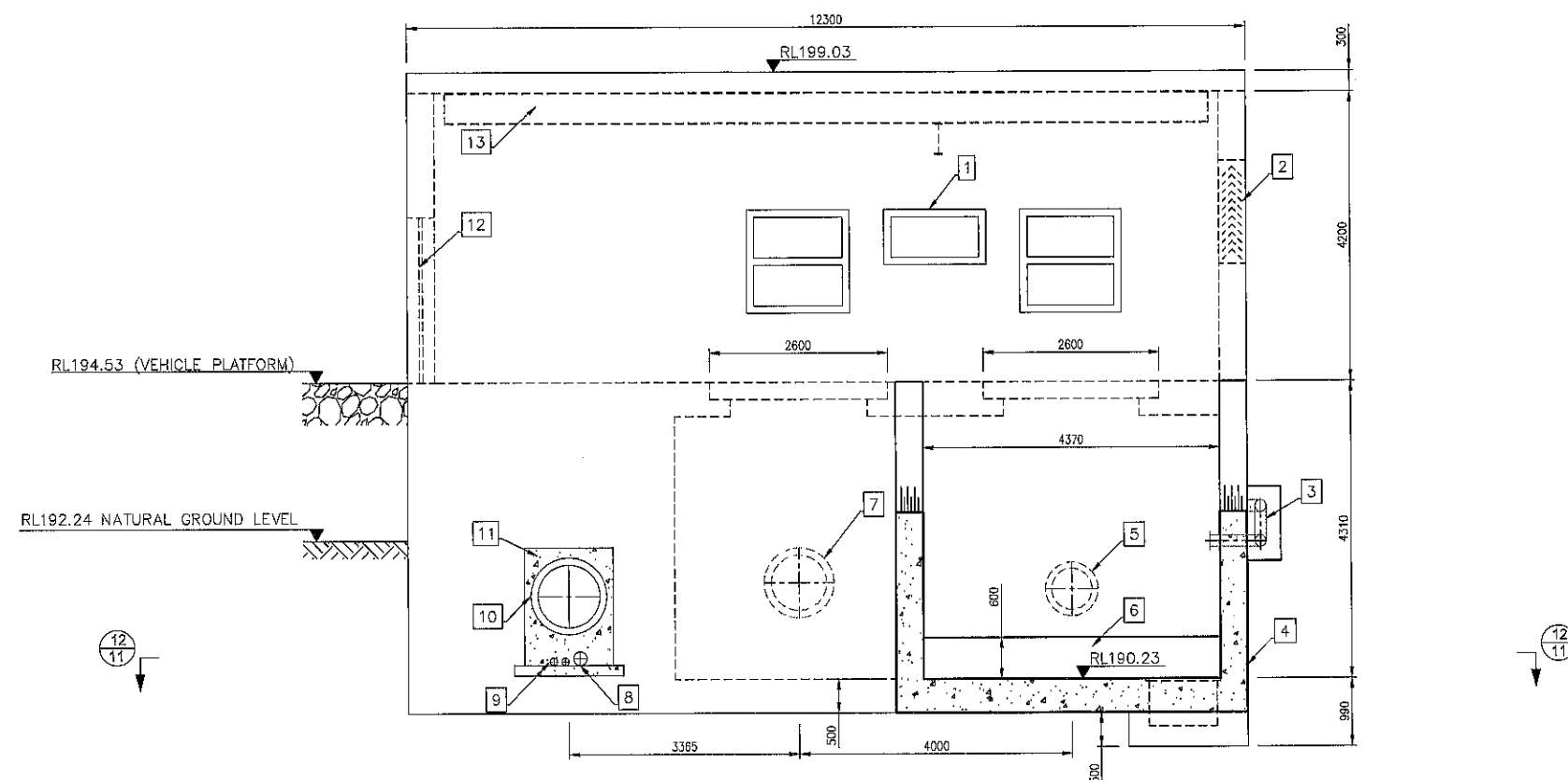
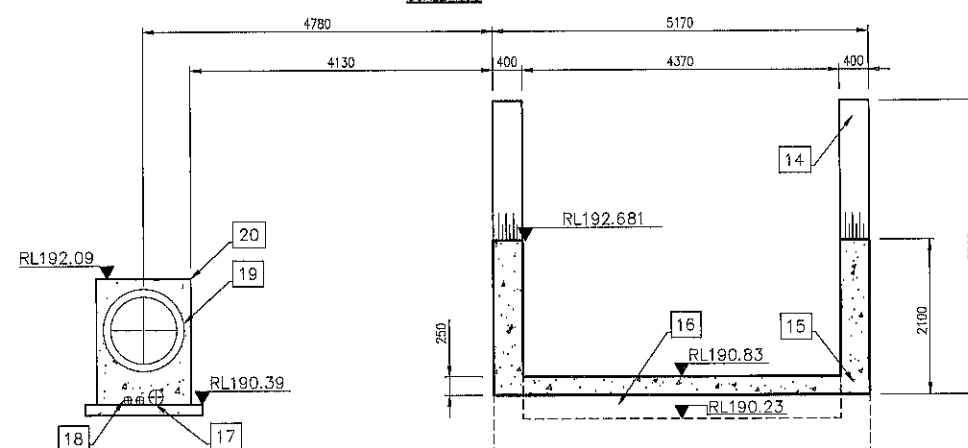


ANNOTATION TABLE	
1	WINDOWS (SEE SPECIFICATION No. 6)
2	VENTILATION LOUVRE: RETRO FIT TYPE (SEE MECHANICAL DRAWING 174348/16, ITEM No. 86)
3	100 DIAMETER DRAINAGE PIPE FROM SUMP TO CANAL (SEE MECHANICAL DRAWING 174348/16 FOR DETAILS)
4	START OF EXISTING CANAL AT STILLING BASIN (SEE BLOCK 3 DRAWING NUMBERS 174872/16 TO 174882/16).
5	DN600 SLEEVE VALVE (SEE MECHANICAL DRAWING 174348/16, ITEM 72)
6	STILLING CHAMBER OPENING
7	DN800 SLEEVE VALVE (SEE MECHANICAL DRAWING 174348/16, ITEM 71)
8	DN200 (SEE BLOCK 4 DRAWING No. 174883/16 TO 174886 /16).
9	ELECTRICAL CABLE DUCTS TO FLOW METER CHAMBER
10	DN900 TO PUMPSTATION
11	DN800 PIPE CONCRETE ENCASEMENT (SEE BLOCK 4 DRAWING NO. 174883/16 TO 174886/16)
12	DOUBLE ACCESS SECURITY DOORS: RETRO FIT TYPE (SEE MECHANICAL DRAWING 174348/16, ITEM No. 87)
13	5 TON CRANE SYSTEM (SEE MECHANICAL DRAWING 174348/16 FOR DETAILS)
14	RAISED EXISTING CANAL WALL HEIGHT (SEE BLOCK 3 DRAWING No's 174872/16 TO 174882/16).
15	START OF EXISTING CANAL AT STILLING BASIN (SEE BLOCK 3 DRAWING NUMBERS 174872/16 TO 174882/16).
16	STILLING BASIN (SEE BLOCK 3 DRAWING NUMBERS 174872/16 TO 174882/16).
17	DN200 (SEE BLOCK 4 DRAWING No. 174883/16 TO 174886/16).
18	ELECTRICAL CABLE DUCTS TO FLOW METER CHAMBER
19	NEW DN900 RUNNING TO PUMPSTATION
20	NEW DN900 OUTLET PIPE ENCASED IN CONCRETE TO RUN TO PUMP STATION No.4 AND No.10 AS WELL AS BLOCK 4 DRAWING NO. 174893/16 TO 174895/16).

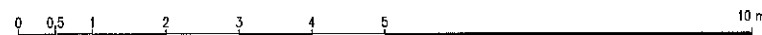


SECTION 10-10
SCALE 1:50



SECTION 11-11
CROSS SECTION SEE DWG NO. 174851/16
SCALE 1:50

SCALE 1:50



SECTION

SECTION
NUMBER

01
02

SHEET
NUMBER

[illegible]DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
STRATEGIC ASSET MANAGEMENT
PRIVATE BAG X 313
PRETORIA 0001



SEDIBENG BUILDING
185 FRANCIS BAARD STREET
PRETORIA
012 336 7500

		DESIGNED: S. REYNOLDS	
CHECKED: T. MABLE	DATE: 2-26/7	DRAWN: N. MADONSELA	
ENGINEER: L. MURDO	DATE:	EXTERNAL APPROVAL:	DATE:
C. MAHLABU	DATE:		DATE:
CHIEF ENG. / ASST. (PR. ENG.)	DATE:	DIRECTOR (PR. ENG.)	DATE:

DAM SAFETY REHABILITATION PROJECT

KWAGGASKLOOF DAM REHABILITATION PROJECT

NEW OUTLET STRUCTURE: CROSS SECTION 10-10 AND 11-11

PROVINCE: WESTERN CAPE	DISTRICT: WORCESTER	KEY CODES	OUS	SEC	CAN	VAE	OTHER No.	XXX
LOCALITY No: H100-08	TENDER/ CONTRACTS No.	SHEET 11 of 55	REG. No. 174858/16					RE 00
CALCULATION FILE:								

NOTES:

1. DEMOLISH AND REMOVE SECTIONS OF EXISTING STILLING BASIN AND CANAL TO MAKE PROVISION FOR THE NEW OUTLET STRUCTURE.
 2. PRIOR TO WELDING JOBS (ITEM 1, MECHANICAL DRAWINGS) ENSURE PROPER SURFACE PREPARATION BY CHIPPING EXISTING WALL AROUND THE LEFT OUTLET PIPE, TO MAKE PROVISION FOR WORKING SPACE.
 3. EXCAVATE FOR FOUNDATIONS AND CONSTRUCT NEW REINFORCED CONCRETE OUTLET STRUCTURE.
 4. FOR CONCRETE DETAILS REFER TO BLOCK 1 DRAWING NUMBERS 174860/16 TO 174859/16.
 5. FOR REINFORCEMENT DETAILS REFER TO BLOCK 2 DRAWING NUMBERS 174860/16 TO 174870/16.
 6. MAKE PROVISION FOR MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT DRAWINGS FOR THE FOLLOWING DETAILS:
 - 6.1. PIPES AND SPECIALS.
 - 6.2. VALVES
 - 6.3. CRANE
 - 6.4. MISCELLANEOUS (GRATINGS, BEAMS, LADDERS, MANHOLE COVERS, VENTILATORS, LOUVERED VENTS, WINDOW GUARDS, ACCESS DOORS AND CLADDING PLATES).
 - 6.5. ELECTRICAL WORKS (LIGHTS, CABLING, DUCTS, DISTRIBUTION BOARDS, ETC).
 - 6.6. DE-WATERING EQUIPMENT (SUMP PUMPS, DRAINAGE PIPES).
7. CONTRACTOR TO PROVIDE EMPLOYER'S AGENT WITH METHOD STATEMENTS FOR APPROVAL PRIOR TO ANY DEMOLITION, EXCAVATION, FOUNDATION PREPARATION, SURFACE PREPARATION (FROM NEW TO EXISTING STRUCTURES) AND CONSTRUCTION.
 8. THE DEPTH AND NATURE OF THE EXISTING FOUNDATION MATERIAL IS UNKNOWN AND WILL BE DETERMINED ON SITE, THE EMPLOYER'S AGENT WILL APPROVE THE EXCAVATION AND SURFACE BEFORE ANY CONSTRUCTION WILL COMMENCE.
 9. CONTRACTOR TO TAKE INTO ACCOUNT ALL INFORMATION INCLUDED IN THE CONTRACT, INCLUDING BUT NOT LIMITED TO CONTRACT DATA, PRICING DATA, SCOPE OF WORKS WITH SPECIFICATIONS AND SITE INFORMATION.

SPECIFICATIONS:

1. CONCRETE CLASS 40/19
2. 50% GROUND GRANULATED COREX SLAG (GGCS) CEMENT REPLACEMENT (OR EQUIVALENT, SUBJECT TO THE APPROVAL OF THE EMPLOYER'S AGENT)
3. ALL EXPOSED CORNERS TO HAVE 25 x 25mm CHAMFER.
4. MAKE PROVISION FOR STAINLESS STEEL CLADDING TO BE CAST IN STILLING CHAMBER AND ACCESS SLABS USING FISHTAILS (SEE MECHANICAL DRAWINGS ON STAINLESS STEEL CLADDING AT SLEEVE VALVE CHAMBER, DRAWING NUMBERS 174378/16 AND 174379/16ME TO 174368/16ME).
5. ALL NON-SHUTTERED CONCRETE SURFACES SHALL HAVE WOOD-FLOATED FINISHES.
6. WINDOWS TO BE GLASS WITH ALUMINUM FRAMES AND MUST COMPLY WITH SANS CODES 1263-1, 10137 AND 10400. TWO 1500 X 1500mm AND ONE 1500 X 750mm TO BE PROVIDED.
7. LIFTING HOOPS FOR ACCESS SLABS TO BE PROVIDED AS SPECIFIED ON DRAWING 174868/16.

STATUS:

FOR CONSTRUCTION

9 OF 55	NEW OUTLET STRUCTURE: CROSS SECTION 08-08		174856/18
8 OF 55	NEW OUTLET STRUCTURE: CROSS SECTION 07-07		174855/18
7 OF 55	NEW OUTLET STRUCTURE: LONG SECTION 06-06		174854/18
6 OF 55	NEW OUTLET STRUCTURE: LONG SECTION 05-05		174853/18
5 OF 55	NEW OUTLET STRUCTURE: PLAN VIEW		174852/18
4 OF 55	GROUTING OF GALLERY AND MODIFICATIONS AT EXISTING OUTLET CULVERT STRUCTURE		174851/18
2 OF 55	GENERAL LAYOUT OF OUTLET WORKS (KEY PLAN)		174849/18
1 OF 55	LIST OF DRAWINGS SERIES 0600 OUTLET WORKS: CONCRETE AND REINFORCEMENT DETAILS		174848/18
SHEET	DESCRIPTION	OTHER No.	REG No.

LIST OF DRAWINGS