



DEPARTMENT OF WATER AND SANITATION

DUE AT 11:00 ON

CLOSING DATE: 04 JULY 2023

DWS12 0623 WTE

THE DESIGN, PURCHASE, SUPPLY AND DELIVERY OF FORMWORK FOR THE INLET TOWER AND THE IVRCC SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS:
DIRECTOR-GENERAL:
WATER AND SANITATION
PRIVATE BAG X313
PRETORIA, 0001

OR

TO BE DEPOSITED IN:
THE BID BOX AT THE ENTRANCE
OF ZWAMADAKA BUILDING
157 FRANCIS BAARD STREET
PRETORIA, 0001

Compulsory Briefing Session

Date: 13 June 2023

Time: 10:00am

Venue: Contractors Site Office Boardroom - Clanwilliam Dam, Construction South

Main Security Gate Entrance GPS Coordinates: 32°11'21.25"S and 18° 52' 26.11"E

BIDDER: (Company Address OR Stamp)

**COMPILED BY:
DEPARTMENT OF WATER AND SANITATION: DIRECTORATE CONSTRUCTION SOUTH**



DEPARTMENT OF WATER AND SANITATION

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THE DESIGN, PURCHASE, SUPPLY AND DELIVERY OF FORMWORK FOR THE INLET TOWER AND THE IVRCC SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE

Tender document compiled date: April 2023

Issued by:

Department of Water and Sanitation
Zwamadaka building
157 Francis Baard Street
Pretoria
0001

Prepared by:

Clanwilliam Dam Construction
Raising of Clanwilliam dam Project
Construction South
Department of Water and Sanitation



DEPARTMENT OF WATER AND SANITATION

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- C3.1 Standard Specifications
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DEPARTMENT OF WATER AND SANITATION



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T1.1 TENDER NOTICE AND INVITATION TO TENDER

Documents may be downloaded from Department of Water and Sanitation website at www.dws.gov.za and from National Treasury website at www.etenders.gov.za.

Queries relating to the issue of these documents may be addressed in writing to bidenquirieswte@gov.za and FrylinckA@dws.gov.za

A compulsory site clarification meeting with representatives of the Employer will take place at Clanwilliam Dam Site at the Contractor Offices Boardroom (Main Security Gate Entrance GPS Coordinates: 32°11'21.25"S and 18° 52' 26.11"E – see Submission Data for further particulars) on **13 June 2023** starting at **10:00hrs**.

The closing time for receipt of tenders is 11:00 hrs on **04 July 2023**. Telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

DEPARTMENT OF WATER AND SANITATION



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T1.2 TENDER DATA

IMPORTANT INFORMATION

PLEASE READ CAREFULLY THROUGH THE ENTIRE TENDER DOCUMENT BEFORE COMPLETING THE DOCUMENT.

TENDER AND CONTRACT STANDARDS CONDITIONS APPLICABLE TO THIS DOCUMENT

SANS ISO 10845-1: 2022 Ed 2	Processes, methods, and procedures.
SANS ISO 10845-2: 2022 Ed 2	Formatting and compilation of procurement documentation.
SANS ISO 10845-3: 2022 Ed 2	Standard conditions of tender.
NTGCC – July 2010	National Treasury General Conditions of Contract – Government procurement General Conditions of contract

INSTRUCTIONS TO BIDDERS

All recipients of these bid documents, whether they submit a Bid or not, shall treat the details of the documents as PRIVATE AND CONFIDENTIAL.



T1.2.1 TENDER SPECIFIC DATA

The conditions of tender are those contained in the latest edition of SANS ISO 10845-3: 2022 Ed 2, Construction Procurement – Part 3: Standard conditions of tender.

SANS ISO 10845-3:2022 Ed 2 makes several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the provisions of SANS ISO 10845-3: 2022 Ed 2.

Each item of data given below is cross-referenced to the clause in SANS ISO 10845-3:2022 Ed 2 to which it mainly applies.

Clause number	TENDER DATA
3	TERMS AND DEFINITIONS
3.1	Wherever reference is made in the documentation to Bill of Quantities it shall also mean Pricing Schedule or Schedule of Quantities.
3.19	Whenever reference is made in the documentation to Bidder or Tenderer it shall mean is the person or organization that submits a tender offer.
4	GENERAL REQUIREMENTS
4.1	The Employer is the Department of Water and Sanitation: Construction South
4.2	The tender documents issued by the employer comprise the documents listed on the contents page
4.4	The employer's agent email address is: FrylinckA@dws.gov.za
4.4	The language for communications is English.
5	TENDERER'S OBLIGATIONS
5.1	<p>Only those Tenderers who satisfy the following eligibility criteria and who provide the required evidence in their tender submissions are eligible to submit tenders and have their tenders evaluated:</p> <p>An Entity is not eligible to submit a bid if:</p> <ul style="list-style-type: none"> (a) the Bidder does not comply with the legal requirements of the Department's Procurement; (b) the Entity submitting the bid is under restrictions or has principals who are under restriction to participate in the Department's procurement due to corrupt or fraudulent practices; (c) the Bidder does not have the legal capacity to enter into the contract; (d) the Entity submitting the bid is insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of the foregoing; (e) the Bidder cannot demonstrate that he possesses the necessary professional and technical qualifications and competent, financial resources and other physical facilities, managerial capability, personnel, experience and reputation to perform the contract; (f) the Bidder cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract; (g) the Bidder has failed to perform on any previous contract and has been given a written notice to this effect; (h) the Bidder or a competent authorized representative of the Entity who submitted the tender has not attended the compulsory clarification meeting or site briefing session if applicable; (i) the bid offer is not signed by a person authorized to sign on behalf of the Bidder;

Clause number	TENDER DATA
	(j) more than one bid has been submitted by a Bidder. Each Bidder shall submit only one bid for the same project, either individually as a Bidder or as a partner in a joint venture. No Entity can be a Sub-contractor while submitting a bid individually or as a partner of a joint venture in the same bidding process. An Entity, if acting in the capacity of Sub-contractor in any bid, may participate in more than one bid, but only in that capacity. A Bidder who submits or participates in more than one bid will cause all the proposals in which the Bidder has participated to be disqualified.
5.5	The tenderer shall obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are incorporated into the tender documents by reference.
5.7	<p>The arrangements for a compulsory site clarification meeting are as stated in the Tender Notice and Invitation to Tender. (Site clarification meeting is also referred to as site briefing session.)</p> <p>The dam site is situated on the Olifants River, immediately next to the N7 and accessed through a controlled gate approximately 2 km South- West of Clanwilliam Town in the Western Cape province. The gravel site access roads is regularly maintained but can get challenging under abnormal rainfall conditions.</p> <p>Personal Protective Equipment (PPE) such as safety boots will be required before entering the site to examine some aspects of the works</p> <p>A full-time employee of the respondent who is involved in the preparation of submissions shall sign the attendance list in the name of the respondent. Addenda will be issued to, and respondents will be evaluated from only from those respondents appearing on the attendance list.</p>
5.10	Tenderers are required to state the rates and currencies in South African Rand (ZAR).
5.11	<p>No alterations, omissions or additions shall be made to this document, but should it be deemed necessary to do so, the Bidder is at liberty to qualify his bid.</p> <p>Bidders shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by them for the purpose of or in connection with the submission of bids which are in conflict with the conditions laid down in this document.</p> <p>Bidders shall not make any alterations or additions to the bid documents, except to comply with instructions issued by the Department, or necessary to correct errors made by the Bidder. All signatories to the bid offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.</p>
5.12	Alternative tender offers will be considered, only if the original tender with pricing is completed in full and submitted.
5.13.1	<p>Parts of each tender offer communicated on paper shall be submitted as an original, plus one (1) copies.</p> <p>The tenderer is requested to also provide an electronic format PDF (soft) copy on a flash disk of the complete tender submission and to include this in their tender submission.</p>
5.13.2	<p>An Entity is not eligible to submit a bid if the bid offer is not signed by a person authorized to sign on behalf of the Bidder. Each page of the completed document that will be submitted should be initialled by the Bidder at the bottom of the page.</p> <p>State clearly in Form D under T2.2 returnable documents and schedules, the authorised signatories that are liable on the behalf of the Tenderer, with proof from the employer and or company.</p> <p>If the bid is submitted by joint venture of more than one person and/or Companies and/or firms it shall be accompanied by the following:</p> <ul style="list-style-type: none"> (a) The original or a notarial certified copy of the original document under which such joint venture was constituted which must define precisely inter alia the conditions under which the joint venture will function, its period of duration and the participation of the several constituent persons and/or companies and/or firms. (b) A certificate signed by or on behalf of each participating person and/or company and/or firm authorising the person who signed the bid to do so

Clause number	TENDER DATA
5.13.5 5.15	<p>The ORIGINAL printed, completed tender document together with a cover letter and all supporting documents needs to be placed and sealed in an envelope. The enveloped needs to be clearly marked as below indicated.</p> <p>The details and address for delivery of tender offers and identification details that are to be shown on the envelope:</p> <p>1) <u>Tender Identical details:</u> Tender reference number: DWS12 0623 WTE</p> <p>Title of Tender: THE DESIGN, PURCHASE, SUPPLY AND DELIVERY OF FORMWORK FOR THE INLET TOWER AND THE IVRCC SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE</p> <p>2) <u>The details and address for delivery of tender offers and closing time are:</u> Location of tender box: THE BID BOX AT THE ENTRANCE Physical address: ZWAMADAKA BUILDING 157 FRANCIS BAARD STREET, PRETORIA, 0001 Closing date & time: 04 July 2023 at 11:00 hrs.</p> <p>3) <u>Name of the Bidder (shall be clearly shown)</u></p>
5.13.5	The "ORIGINAL" and "COPY" are to be submitted as separate packages. The PDF soft copy on USB Flash drive to be submitted together with the "ORIGINAL" packages.
5.13.6	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers shall NOT be accepted.
5.15	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
5.16	The tender offer validity period is for 120 days.
5.18	Provide, on request by the employer, any other material that has bearing on the tender offer within 5 working days of request.
5.19	The employer reserve the right to arrange access for inspections, tests, and analysis at Bidder's facilities.
6	EMPLOYER'S UNDERTAKINGS
6.1	The Employer will respond to requests for clarification received up to seven (7) working days before the tender closing time.
6.2	The employer shall issue addenda until four (4) working days before tender closing time.
6.4	Tenders will be opened immediately after the closing time for tenders at 11:00 hrs.
6.8	<p><u>TEST FOR RESPONSIVENESS:</u></p> <p>Bids will be evaluated in accordance with the new Preferential Procurement Regulations , 2022, using 90/10 preference points system as prescribed in the Preferential Procurement Policy Framework Act (PPPFA, Act 5 of 2000. The lowest acceptable bid will score 90 points for price and a maximum of 10 points will be awarded for the specific goals. Maximum of 100 points will be scored for functionality (quality).</p> <p>Bids received will be evaluated on the five (5) phases namely:</p> <ol style="list-style-type: none"> (1) Mandatory Requirements, (2) Administrative Compliance, (3) Functionality (6.11.9), (4) Price & Preference (6.11.7 & 6.11.8) & (5) Evaluation Method 4. (6.11.5)

Clause number	TENDER DATA																																															
6.8	<p>PHASE 1: MANDATORY REQUIREMENTS: Failure to submit any of the documents listed below will render your bid non-responsive and the bid will be disqualified.</p> <ul style="list-style-type: none"> • Certificate of attendance at the compulsory site briefing session and signed attendance register. • Professional Registered Civil Engineer with ECSA (PR Tech, or, PR Techni, or PR Eng). • Temporary works Designer: Must have a valid qualification (NDip OR BTech OR BSc OR BEng Degree) in Civil Engineering, which cover a at least 3 year study period and contain a subject or module which cover Structures. Shall have proven experience of at least 3 years working experience as a Temporary works designer at the time. • Temporary works Inspector: Qualified in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), at least to inspect, formwork, false work, Scaffolding, Support work, and temporary suspended platforms, on and for various highest. Shall have proven experience of at least 3 years working experience as a Temporary works inspector at the time. • Submitted company experience as per Annexure F. 																																															
6.8	<p>1) PHASE 2: ADMINISTRATIVE COMPLIANCE Bidders are required to comply with the following listed below:</p> <table border="1" data-bbox="209 674 1453 1917"> <thead> <tr> <th data-bbox="209 674 288 730">No</th> <th data-bbox="288 674 1278 730">Criteria</th> <th data-bbox="1278 674 1370 730">Yes</th> <th data-bbox="1370 674 1453 730">No</th> </tr> </thead> <tbody> <tr> <td data-bbox="209 730 288 815">1</td> <td data-bbox="288 730 1278 815">Companies must be registered with National Treasury's Central Supplier Database must submit CSD report. Provide MAAA number on SBD1</td> <td data-bbox="1278 730 1370 815"></td> <td data-bbox="1370 730 1453 815"></td> </tr> <tr> <td data-bbox="209 815 288 900">2</td> <td data-bbox="288 815 1278 900">Tax compliant with SARS (to be verified through CSD and SARS). 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6.8	<p>2) PHASE 3: FUNCTIONALITY COMPLIANCE As explained in 6.11.9. The Bidder must score a minimum of 70 points out of 100 to allow them to proceed to the next phase of evaluation.</p>																
6.8	<p>3) PHASE 4: PRICE AND PREFERENCE As explained in 6.11.7 & 6.11.8.</p>																
6.11.5	<p>5) PHASE 5: EVALUATION METHOD Method 4: Financial offer, quality and preference → This method shall apply for the evaluation of this tender The procedure for the evaluation of responsive tenders is Method 4 (Financial offer, quality and preference). The total number of tender evaluation points (T_{EV}) shall be determined in accordance with the following formula: $T_{EV} = f_1 (N_{FO} + N_P) + f_2 N_Q$ Where: f_1 & f_2 are fractions, f_1 equals 1 minus f_2 ; and f_2 equals 0,3 N_{FO} → is the number of tender evaluation points awarded for the <u>financial offer</u> made in accordance with SANS ISO 10845-3: 2022 Ed 2 clause 6.11.7, (where N_{FO} is maximum 90 points); N_P → is the number of tender evaluation points awarded for <u>for preference points claimed for specific goals</u> in accordance with SANS ISO 10845-3: 2022 Ed 2 clause 6.11.8, (where N_P is maximum 10 points); N_Q → is the number of tender evaluation points awarded for <u>functionality (quality)</u> in accordance with SANS ISO 10845-3:2022 Ed2 clause 6.11.9, (where N_Q is maximum 100 points). Example: For example, if a Tenderer scores the following: 75 points for pricing (N_{FO}) out of 90; 6 points for preferencing (N_P) out of 10; and 70 points for functionality (quality) (N_Q) out of 100 And the fractions are f_1 equals 0,7 and f_2 equals 0,3</p> <table border="1" data-bbox="209 1391 1102 1637"> <thead> <tr> <th data-bbox="209 1391 778 1424">Where the weights are:</th> <th data-bbox="778 1391 1102 1424">Example values scored</th> </tr> </thead> <tbody> <tr> <td data-bbox="209 1424 778 1458">Total points for financial offer (N_{FO}) → 90</td> <td data-bbox="778 1424 1102 1458">75</td> </tr> <tr> <td data-bbox="209 1458 778 1491">N_P → 10</td> <td data-bbox="778 1458 1102 1491">6</td> </tr> <tr> <td data-bbox="209 1491 778 1525">N_Q → 100</td> <td data-bbox="778 1491 1102 1525">70</td> </tr> <tr> <th data-bbox="209 1525 778 1559">Calculation:</th> <th data-bbox="778 1525 1102 1559">Example of calculation</th> </tr> <tr> <td data-bbox="209 1559 778 1592">Where: $f_1(N_{FO} + N_P)$</td> <td data-bbox="778 1559 1102 1592">$0.7 * (75 + 6) = 56.7$</td> </tr> <tr> <td data-bbox="209 1592 778 1626">And where: $f_2 N_Q$</td> <td data-bbox="778 1592 1102 1626">$0.3 * 70 = 21$</td> </tr> <tr> <td data-bbox="209 1626 778 1637">Total Tender evaluation points (T_{EV}) → 100</td> <td data-bbox="778 1626 1102 1637">77.7</td> </tr> </tbody> </table>	Where the weights are:	Example values scored	Total points for financial offer (N_{FO}) → 90	75	N_P → 10	6	N_Q → 100	70	Calculation:	Example of calculation	Where: $f_1(N_{FO} + N_P)$	$0.7 * (75 + 6) = 56.7$	And where: $f_2 N_Q$	$0.3 * 70 = 21$	Total Tender evaluation points (T_{EV}) → 100	77.7
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Clause number	TENDER DATA
6.11.7	<p>Price Score:</p> <p>Score for financial offers using the following formula:</p> $N_{FO} = W_1 \times A$ <p>Where:</p> <p>N_{FO} → is the number of tender evaluation points awarded for the financial offer;</p> $A = \left(1 - \left(\frac{P - P_m}{P_m} \right) \right)$ (As per Preferential Procurement Regulations, 2022) <p>P is the comparative offer of the tender offer under consideration;</p> <p>P_m is the comparative offer of the most favourable comparative offer; and</p> <p>W_1 is the maximum possible number of tender evaluation points awarded for the financial offer which equals 90 where the financial value inclusive of VAT of all responsive tenders received have a value in excess of R50 000 000,00.</p>

6.11.8

Preference Score:

Preferential Procurement Regulations, 2022, Act no. 5 of 2000 will be used to evaluate this proposal as per the applicable threshold value.

Bid proposals will be evaluated based on the 90/10 preference points system in accordance with the PPPFA Act (Act no. 5 of 2000). Where a maximum of 90 points will be awarded in respect of price and a maximum of 10 points will be awarded for specific goals.

M_p shall be calculated to a maximum of 10 points, as claimed in Table 1 below in accordance with Preferential Procurement Regulations, 2022 and described below.

Points claimed will be according to a bidder's specific goals claimed as indicated in Table 1 below.

In terms of Regulation 4(2) and 5(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the tenderer's goals claimed as per Table 1 below. The tenderer goal claimed must be supported by proof / documentation as per Table 2 and the special conditions of this tender where applicable.

Table 1: Specific goals for the tender and points claimed

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system)
Women Ownership	2
Disability Ownership	2
Youth Ownership	2
Location of enterprise (local equals province): Western Cape	1
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3
TOTAL SCORED POINTS	10

"Specific goals" means specific goals as contemplated in section 2(1)(d) of the PPPFA Act which may include contracting with persons, or categories of persons, historically disadvantaged by unfair discrimination on the basis of race, gender and disability including the implementation of programmes of the Reconstruction of Development Programme as published in *Government Gazette* No. 16085 date 23 November 1994.

"Ownership" means the percentage ownership and control, exercised by individuals within an enterprise.

"Disability" means, in respect of a person, a permanent impairment of a physical, intellectual, or sensory function, which results in restricted, or lack of, ability to perform an activity in the manner, or within the range, considered normal for a human being.

- i. A blind person (in terms of the Blind Persons Act, 1968 (Act no.26 of 1968);
- ii. A deaf person, whose hearing is impaired to such an extent that he/she cannot use it as a primary means of communication;
- iii. A person who, as a result of permanent disability, requires a wheelchair, caliper or crutch to assist him/her to move from one place or another;
- iv. A person who requires an artificial limb; or
- v. A person who suffers from a mental illness (in terms of the Mental Health Act, 1973 (Act no. 18 of 1973).

"Youth" means, in respect of a person younger than 35 years of age.

"Location of enterprise" Local equals province. Where a project cuts across more than on province, the bidder may be located in any of the relevant provinces to obtain the points.

Women, disability, and youth will be measured by calculating the pro-rata percentage of ownership of the bidding company which meets the criterion. E.g., Company A has five shareholders each of whom own 20% of the company. Three of the five shareholders meet the criterion, i.e., they are women/disability/youth. Therefore, this bidder will obtain 60% of the points allowable for this goal.

Clause number	TENDER DATA														
	<p>Documents/ information listed on the below Table 2 must be submitted to support and verify points claimed as per Table 1 above.</p> <p>Table 2: Documents required for verification of Tenderer claimed points</p> <table border="1"> <thead> <tr> <th style="text-align: center;">Specific Goal</th> <th style="text-align: center;">Requires Proof Documents</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Women Ownership</td> <td style="text-align: center;">Full CSD Report</td> </tr> <tr> <td style="text-align: center;">Disability Ownership</td> <td style="text-align: center;">Full CSD Report</td> </tr> <tr> <td style="text-align: center;">Youth Ownership</td> <td style="text-align: center;">Full CSD Report</td> </tr> <tr> <td style="text-align: center;">Location of enterprise – Western Cape</td> <td style="text-align: center;">Full CSD Report</td> </tr> <tr> <td style="text-align: center;">B-BBEE status level contribution from level 1 to 2 which are QSE or EME</td> <td> <ul style="list-style-type: none"> • Valid B-BBEE certificate/sworn affidavit • Consolidated B-BBEE certificate in cases of Joint Ventures • Full CSD Report </td> </tr> </tbody> </table> <p>Failure on the part of a bidder to submit proof of documentation required in terms of this tender to claim for specific goals with the bid, will be interpreted to mean that preference points for specific goals are not claimed and will not be allocated.</p>	Specific Goal	Requires Proof Documents	Women Ownership	Full CSD Report	Disability Ownership	Full CSD Report	Youth Ownership	Full CSD Report	Location of enterprise – Western Cape	Full CSD Report	B-BBEE status level contribution from level 1 to 2 which are QSE or EME	<ul style="list-style-type: none"> • Valid B-BBEE certificate/sworn affidavit • Consolidated B-BBEE certificate in cases of Joint Ventures • Full CSD Report 		
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6.11.9	<p><u>Functionality (Quality) Score:</u></p> <p>The score obtained in 6.11.9 (functionality criteria) will be used for the following formula:</p> $N_Q = 100 \times \frac{S_0}{M_s}$ <p>Where</p> <p>$N_Q \rightarrow$ is the number of tender evaluation points awarded for functionality offered;</p> <p>$S_0 \rightarrow$ is the score for functionality criteria (6.11.9) allocated to the submission under consideration; and</p> <p>$M_s \rightarrow$ is the maximum possible score for functionality criteria (100).</p> <p>Functionality is the terminology used to define the technical ability of the Tenderer, based on experience, to deliver the required product in accordance with the specialised quality, reliability and functionality.</p> <p>Points allocated for functionality shall be evaluated in accordance with the criteria as listed below table. An overall minimum threshold of 70 (M_s) points out of total 100 (M_s) must be achieved for the tender to be eligible.</p> <p>See T2 returnable annexure (as indicated below) for applicable documents with detail on point allocation for the sub-criteria's.</p> <p>The quality criteria and maximum score in respect of each of the criteria are as follows:</p> <table border="1"> <thead> <tr> <th style="text-align: center;">Functionality criteria</th> <th style="text-align: center;">Sub-criteria</th> <th style="text-align: center;">Maximum number of points</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Managerial Capacity</td> <td> <ol style="list-style-type: none"> 1) Professional Civil Engineer 2) Designer/s 3) Inspector/s </td> <td style="text-align: center;">30</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Intake Tower</td> <td> <ol style="list-style-type: none"> 1) Outside Perimeter Walls 2) Drywell Valve Chamber 3) Shaft System/S 4) Overall design and how all items will fit together for a lift </td> <td style="text-align: center;">70</td> </tr> <tr> <td colspan="2">Maximum possible score for quality (M_s)</td> <td style="text-align: center;">100</td> </tr> </tbody> </table> <p>Quality shall be scored by not less than three evaluators in accordance with the following schedules:</p> <ul style="list-style-type: none"> • Annexure H: Managerial Capacity • Annexure K: Preliminary Temporary Works Designs <p>The minimum number of evaluation points for functionality (quality) is 70</p>	Functionality criteria	Sub-criteria	Maximum number of points	1	Managerial Capacity	<ol style="list-style-type: none"> 1) Professional Civil Engineer 2) Designer/s 3) Inspector/s 	30	2	Intake Tower	<ol style="list-style-type: none"> 1) Outside Perimeter Walls 2) Drywell Valve Chamber 3) Shaft System/S 4) Overall design and how all items will fit together for a lift 	70	Maximum possible score for quality (M_s)		100
Functionality criteria	Sub-criteria	Maximum number of points													
1	Managerial Capacity	<ol style="list-style-type: none"> 1) Professional Civil Engineer 2) Designer/s 3) Inspector/s 	30												
2	Intake Tower	<ol style="list-style-type: none"> 1) Outside Perimeter Walls 2) Drywell Valve Chamber 3) Shaft System/S 4) Overall design and how all items will fit together for a lift 	70												
Maximum possible score for quality (M_s)		100													

6.11.9

SCORING OF FUNCTIONALITY:

The prompts for judgment and the associated scores used in the evaluation of quality shall be as follows:

Each evaluation criteria will be assessed in terms of five indicators – no response, poor, satisfactory, good and very good. Scores of 0, 40, 70, 90 or 100 will be allocated to no response, poor, satisfactory, good and very good, respectively.

TABLE: (SANS ISO 10854-3:2022 Ed2 Table A4) Scoring system that shall be used to score this criterion

Score	Rating	Qualitative indicator or prompt for judgement		
		Example 1 (Proposed Organization and staffing)	Example 2 (Approach paper)	Example 3 (Knowledge of issues pertinent to the project)
0	No response	Failed to provide information.	Failed to provide information.	Failed to provide information.
40	Poor	The organization chart is sketchy, the staffing plan is weak in important areas. There is no clarity in allocation of tasks and responsibilities.	The technical approach and/or methodology is poor/is unlikely to satisfy project objectives or requirements. The tenderer has misunderstood certain aspects of the scope of work and does not deal with the critical aspects of the project.	Key staff have limited experience of issues pertinent to the project
70	Satisfactory	The organizational chart is complete and detailed, the technical level and composition of the staffing arrangements are adequate.	The approach is generic and not tailored to address the specific project objectives and methodology. The approach does not adequately deal with the critical characteristics of the project. The quality plan, manner in which risk is to be managed, etc. is too generic.	Key staff have reasonable experience of issues pertinent to the project.
90	Good	Besides attaining the "satisfactory" rating, staff are well-balanced, i.e. they show good co-ordination, complimentary skills, clear and defined duties and responsibilities. Some members of the project team have worked together before on limited occasions.	The approach is specifically tailored to address the specific project objectives and methodology and is sufficiently flexible to accommodate changes that might occur during execution. The quality plan and approach to managing risk, etc. is specifically tailored to the critical characteristics of the project.	Key staff have extensive experience of issues pertinent to the project.
100	Very good	Besides attaining the "good" rating, the proposed team is well-integrated and several members have worked together extensively in the past.	Besides attaining the "good" rating, the important issues are approached in an innovative and efficient way, indicating that the tenderer has outstanding knowledge of state-of-the-art approaches. The approach paper details ways to improve the project outcomes and the quality of the outputs.	Key staff have outstanding experience of issues pertinent to the project.

The scores of each of the evaluators will be averaged, weighted and then totalled to obtain the final score for quality.

EXAMPLE OF EVALUATION:

Criteria	SCORE (out of 0% - 100%)	WEIGHT (POINTS)	TOTAL (A% score x 5 points)
Sub-Criteria	Score according to SANS ISO 10845-3:2022 ed2 Table A.4	Max allowed points for a (per) sub-criteria.	
Example 1	70 score (=70%): Satisfactory	5	= 5 * 70% = 3.5
Example 2	90 score (=90%): Good	20	= 20 * 90% = 18

Clause number	TENDER DATA
6.13	<p>Tender offers will only be accepted if:</p> <ul style="list-style-type: none"> a) the Tenderer is registered on the Central Supplier Database (CSD) for the South African government (see https://secure.csd.gov.za/) unless it is a foreign supplier with no local registered entity; b) the Tenderer is in good standing with SARS according to the Central Supplier Database; c) the Tenderer submits a letter of intent from an approved insurer undertaking to provide the Performance guarantee to the format included in Part C1.3 of this procurement document; d) the Tenderer is registered with the Construction Industry Development Board (CIDB) in an appropriate Contractor grading designation; e) the Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; f) the Tenderer has not: <ul style="list-style-type: none"> i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect; g) the Tenderer has completed the Compulsory Declaration and there are no conflicts of interest which may impact on the Tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process; h) the Tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer; i) the employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations, 2003, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.
6.17	The number of paper copies of the signed contract to be provided by the employer to the successful Bidder is One (1).



DEPARTMENT OF WATER AND SANITATION

DWS12 0623 WTE

THE DESIGN, PURCHASE, SUPPLY AND DELIVERY OF FORMWORK FOR THE INLET TOWER AND THE IVRCC SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE

T2: RETURNABLE DOCUMENTS AND SCHEDULES

CONTENTS

T2.1: LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

T2.2 RETURNABLE DOCUMENTS AND SCHEDULES



T2.1 LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

THE TENDER DOCUMENT MUST BE SUBMITTED AS A WHOLE i.e. All volumes (including the fully priced and extended Provisional Bills of Quantities) as is bound together in one single document herein. All forms must be properly completed in black ink as required, and the document shall not be taken apart or altered in any way whatsoever.

Note: Should any of the below-mentioned documents and/or the entire Tender Enquiry Document not be submitted the tender submission may be viewed as NON-RESPONSIVE.

The tendered must complete the following returnable document/schedules:

RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES THAT WILL BE INCORPORATED INTO THE CONTRACT		
Doc. Ref. Nr.	Document/ Schedule	Completed (Tick)
SBD 1	SBD 1: Invitation to Bid	
SBD 3.2	SBD 3.2: Bill of Quantities – Non-Firm Price (Priced and extended Provisional Bill of Quantities - Part C2.2)	
SBD 4	SBD 4: Declaration of Interest	
SBD 6.1	SBD 6.1: Preference Points Claim Form: General Conditions and Definitions	
LOCAL CONTENT	Local production and content: Annexures C	
FORM A	Certificate of attendance at a compulsory Clarification Site Meeting	
FORM B	Record of Addenda to Tender Documents	
FORM C	Compulsory Declaration	
FORM D	Certificate Authority of Signatory	
FORM E	Annual Financial Statements Declaration	
FORM F	Contractor's health and safety declaration	
FORM G	Health and Safety Act agreement	
ANNEXURE A	Preferencing Schedule for Broad Based Black Economic Empowerment Status (together with a valid copy of B-BBEE certificate or an original sworn affidavit)	
ANNEXURE B	Tax Compliance Status Pin page issued by the South African Revenue Services.	
ANNEXURE C	Central Supplier Database (CSD) proof of registration containing MAAA number.	
ANNEXURE D	Copies of Bidder's CIPC company registration documents listing all members with percentages	
ANNEXURE E	Letter of good standing from COIDA (Compensation for Occupational Injuries & Diseases Act)	
ANNEXURE F	Company Experience	



**RETURABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES THAT
WILL BE INCORPORATED INTO THE CONTRACT**

Doc. Ref. Nr.	Document/ Schedule	Completed (Tick)
ANNEXURE G	Schedule of similar work undertaken	
ANNEXURE H	Managerial Capacity	
ANNEXURE I	Schedule of Qualifications / Experience of key project team members.	
ANNEXURE J	Schedule of Proposed sub-contractor together with a pro-forma sub-contracting agreement signed by both parties	
ANNEXURE K	Preliminary Temporary Works Designs	

NOTE: Failure to provide all these listed documents may result in the tender not being evaluated



T2.2 RETURNABLE DOCUMENTS AND SCHEDULES

SBD 1



PART A: INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)			
BID NUMBER:	DWS12 0623 WTE	CLOSING DATE: 04 JULY 2023	CLOSING TIME: 11:00am
DESCRIPTION	THE DESIGN, PURCHASE , SUPPLY AND DELIVERY OF FORMWORK FOR THE INLET TOWER AND THE IVRCC SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE		
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)			
THE BID BOX AT THE ENTRANCE OF WATER AND SANITATION – ZWAMADAKA BUILDING			
157 FRANCIS BAARD STREET			
PRETORIA, 0001			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		TECHNICAL ENQUIRIES MAY BE DIRECTED TO:	
CONTACT PERSON	Department of Water and Sanitation	CONTACT PERSON	Mr A. Frylinck
TELEPHONE NUMBER	012 336 7780/6562/8151/8241		064 761 0506
FACSIMILE NUMBER			
E-MAIL ADDRESS	bidenquirieswte@dws.gov.za	E-MAIL ADDRESS	FrylinckA@dws.gov.za
SUPPLIER INFORMATION			
NAME OF BIDDER			
POSTAL ADDRESS			
STREET ADDRESS			
TELEPHONE NUMBER	CODE	NUMBER	
CELLPHONE NUMBER			
FACSIMILE NUMBER	CODE	NUMBER	
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:	OR	CENTRAL SUPPLIER DATABASE No: MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No	B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]			
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS			
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.			





SBD 1

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER’S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:



SBD 3.2 PRICING SCHEDULE

**PRICING SCHEDULE – NON-FIRM PRICES
(PURCHASES)**

SBD 3.2 is in section – Contract C2, under C2.2

Complete this document and place back into bid at C2.2



BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the Bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the Bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

SBD 4



2.2 Do you, or any person connected with the Bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the Bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name).....
in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The Bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

SBD 4



- 3.5 There have been no consultations, communications, agreements or arrangements made by the Bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the Bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder



PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

a) The applicable preference point system for this tender is the **90/10** preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.



2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$Ps = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right) \quad \text{or} \quad Ps = 90 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender



Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Women Ownership	2	
Disability Ownership	2	
Youth Ownership	2	
Location of enterprise (local equals province) Western Cape	1	
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
 - One-person business/sole propriety
 - Close corporation
 - Public Company
 - Personal Liability Company
 - (Pty) Limited
 - Non-Profit Company
 - State Owned Company
- [TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

SBD 6.1



- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:	.....
DATE:	.....
ADDRESS:	.....

FORM A



FORM A CERTIFICATE OF ATTENDANCE AT COMPULSORY CLARIFICATION SITE MEETING

This is to certify that (*Company Name*) ,

duly authorised the undersigned, to represented on behalf of respondent, , confirms that the following full-time employee who is engaged in the preparation of tender submission attended the compulsory clarification meeting and signed the attendance register:

of (Duly authorize person name and surname)

duly authorized persons ID number:

Job Description:

Telephone number:

Email Address

Company Address:

I acknowledge that the purpose of the meeting was to acquaint myself with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for me to take account of everything necessary when compiling our rates and prices included in the tender.

Having previously studied the documents, I carefully examined the site. I have made myself familiar with all the requirements likely to influence the work and the cost thereof.

I further certify that I am satisfied with the description of the work and the explanations given by the Department of Water and Sanitation Representative, and I understand perfectly the work to be done, as specified and implied, in the execution of this Contract.

Signed	Date & Time
.....
Name	Position
.....

ATTENDANCE OF THE ABOVE PERSON AT THE MEETING IS CONFIRMED BY THE EMPLOYER'S REPRESENTATIVE, NAMELY:

Name: .. Signature:

Capacity: Date and Time:

FORM B



FORM B RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		

Attach additional pages if more space is required.

Signed

Date

Name

Position

Tenderer



FORM C COMPULSORY DECLARATION

The following particulars must be furnished. In the case of a joint venture, separate declaration in respect of each partner must be completed and submitted.

Section 1: Enterprise Details

Name of enterprise:	
Contact person:	
Email:	
Telephone:	
Cell no	
Fax:	
Physical address	
Postal address	

Section 2: Particulars of companies and close corporations

Company / Close Corporation registration number	
--	--

Section 3: SARS Information

Tax reference number	
VAT registration number:	<i>State Not Registered if not registered for VAT</i>

Section 4: CIDB registration number

CIDB Registration number (if applicable)	
---	--

Section 5: National Treasury Central Supplier Database

Supplier number	
Unique registration reference number	

Section 6: Particulars of principals

principal: means a natural person who is a partner in a partnership, a sole proprietor, a director of a company established in terms of the Companies Act of 2008 (Act No. 71 of 2008) or a member of a close corporation registered in terms of the Close Corporation Act, 1984, (Act No. 69 of 1984).

Full name of principal	Identity number	Personal tax reference number

Attach separate page if necessary

FORM C



Section 7: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any principal is currently or has been within the last 12 months in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- an employee of any department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act of 1999 (Act No. 1 of 1999)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following:

Name of principal	Name of institution, public office, board or organ of state and position held	Status of service <i>(tick appropriate column)</i>	
		Current	Within last 12 months

*insert separate page if necessary

Section 8: Record of family member in the service of the state

family member: a person's spouse, whether in a marriage or in a customary union according to indigenous law, domestic partner in a civil union, or child, parent, brother, sister, whether such a relationship results from birth, marriage or adoption

Indicate by marking the relevant boxes with a cross, if any family member of a principal as defined in section 5 is currently or has been within the last 12 months been in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

Name of family member	Name of institution, public office, board or organ of state and position held	Status of service <i>(tick appropriate column)</i>	
		Current	Within last 12 months

*insert separate page if necessary

Section 9: Record of termination of previous contracts with an organ of state

FORM C



Was any contract between the tendering entity including any of its joint venture partners terminated during the past 5 years for reasons other than the employer no longer requiring such works or the employer failing to make payment in terms of the contract.

Yes No (Tick appropriate box)

If yes, provide particulars (interest separate page if necessary)

Section 10: Declaration

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the tendering entity confirms that the contents of this Declaration are within my personal knowledge, and save where stated otherwise in an attachment hereto, are to the best of my belief both true and correct, and:

- i) neither the name of the tendering entity or any of its principals appears on:
 - a) the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004 (Act No. 12 of 2004)
 - b) National Treasury's Database of Restricted Suppliers (see www.treasury.gov.za)
- ii) neither the tendering entity or any of its principals has within the last five years been convicted of fraud or corruption by a court of law (including a court outside of the Republic of South Africa);
- iii) any principal who is presently employed by the state has the necessary permission to undertake remunerative work outside such employment (attach permission to this declaration);
- iv) the tendering entity is not associated, linked or involved with any other tendering entities submitting tender offers
- v) has not engaged in any prohibited restrictive horizontal practices including consultation, communication, agreement, or arrangement with any competing or potential tendering entity regarding prices, geographical areas in which goods and services will be rendered, approaches to determining prices or pricing parameters, intentions to submit a tender or not, the content of the submission (specification, timing, conditions of contract etc) or intention to not win a tender;
- vi) has no other relationship with any of the Tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
- vii) neither the Tenderer or any of its principals owes municipal rates and taxes or municipal service charges to any municipality or a municipal entity and are not in arrears for more than 3 months;
- viii) SARS may, on an on-going basis during the term of the contract, disclose the Tenderer's tax compliance status to the Employer and when called upon to do so, obtain the written consent of any subcontractors who are subcontracted to execute a portion of the contract that is entered into in excess of the threshold prescribed by the National Treasury, for SARS to do likewise.

NOTE 1 The Standard Conditions of Tender contained in SANS 10845-3 prohibits anticompetitive practices (clause 3.1) and requires that Tenderers avoid conflicts of interest, only submit a tender offer if the Tenderer or any of his principals is not under any restriction to do business with employer (4.1.1) and submit only one tender either as a single tendering entity or as a member in a joint venture (clause 4.13.1). Clause 5.7 also empowers the Employer to disqualify any Tenderer who engages in fraudulent and corrupt practice. Clause 3.1 also requires Tenderers to comply with all legal obligations.

NOTE 2: Section 30(1) of the Public Service Act, 1994, prohibits an employee (person who is employed in posts on the establishment of departments) from performing or engaging remunerative work outside his or her employment in the relevant department, except with the written permission of the executive authority of the department. When in operation, Section 8(2) of the Public Administration Management Act, 2014, will prohibit an employee of the public administration (i.e. organs of state and all national departments, national government components listed in Part A of Schedule 3 to the Public Service Act, provincial departments including the office of the premier listed in Schedule 1 of the Public Service Act and provincial departments listed in schedule 2 of the Public Service Act, and provincial government components listed in Part B of schedule 3 of the Public Service Act) or persons contracted to executive authorities in accordance with the provisions of section 12A of the Public Service Act of 1994 or persons performing similar functions in organs of state from conducting business with the State or to be a director of a public or private company conducting business with the State. The offence for doing so is a fine or imprisonment for a period not exceeding 5 years or both. It is also a serious misconduct which may result in the termination of employment by the employer.

NOTE 3: Regulation 44 of Supply Chain Management regulations issued in terms of the Municipal Finance Management Act of 2003 requires that organs of state and municipal entities not award a contract to a person who is the service of the state, a director, manager or principal shareholder in the service of the state or who has been in the service of the state in the previous twelve months.

NOTE: 4: Regulation 45 of Supply Chain Management regulations requires a municipality or municipal entity to disclose in the notes to the annual statements particulars of any award made to a close family member in the service of the state.

NOTE: 5 Corrupt activities which give rise to an offence in terms of the Prevention and Combating of Corrupt Activities Act of 2004) include improperly influencing in any way the procurement of any contract, the fixing of the price, consideration or other moneys stipulated or otherwise provided for in any contract and the manipulating by any means of the award of a tender.

FORM C



NOTE: 6 Section 4 of the Competition Act of 1998 prohibits restrictive horizontal practice including agreements between parties in a horizontal relationship which have the effect of substantially preventing or lessening competition, directly or indirectly fixing prices or dividing markets or constitute collusive tendering. Section 5 also prohibits restrictive vertical practices. Any restrictive practices that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties.

Signed	Date
.....	_____
Name	Position
.....	_____
<i>Tenderer</i>	_____
.....	_____

FORM D



FORM D CERTIFICATE AUTHORITY OF SIGNATORY

Indicate the status of the Tenderer by ticking the appropriate box hereunder. The Tenderer must complete the certificate set out below for the relevant category. Delete whichever is inapplicable.

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation
--------------	------------------	--------------------	----------------------	------------------------

A. CERTIFICATE FOR COMPANY

I,, chairperson of the board of directors of
.....

hereby confirm that by resolution of the board taken on 20.....

Mr/Ms....., acting in the capacity

of, was authorised to sign all documents in connection with this tender for

Contract reference number and any contract resulting from it

on behalf of the company.

As witnesses:-

1.
Witness Chairman

2.
Witness Date

FORM D



B. CERTIFICATE FOR PARTNERSHIP

We, the undersigned, being the key partners in the business trading as

.....

hereby authorise Mr/Ms

acting in the capacity of to sign

all documents in connection with the tender for Contract reference number

and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

FORM D



C. CERTIFICATE FOR JOINT VENTURE

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms, authorised signatory of the company, acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contract reference number..... and any contract resulting from it on our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORIZING SIGNATURE, NAME & CAPACITY
Lead Partner		
Partner 1		
Partner 2		
Partner 3		
Partner 4		

FORM D



D. CERTIFICATE FOR SOLE PROPRIETOR.

I, hereby confirm that I am the sole owner of
the business trading as

As witnesses:-

1.
Witness Signature: Sole owner

2.
Witness Date

FORM D



E. CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key partners in the business trading as

.....
.....

hereby authorise Mr/Ms,

acting in the capacity of to sign

all documents in connection with the tender for Contract reference number

and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

FORM E



FORM E ANNUAL FINANCIAL STATEMENTS DECLARATION

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the respondent, confirms that:

- 1) The enterprise's financial year end is
- 2) The enterprise's financial statements have been prepared in accordance with the provisions of the Companies Act of 2008 or the Close Corporation Act of 1984, as applicable
- 3) The enterprise has compiled its financial accounts [tick one box]:
 - internally independently
- 4) The following statement applies to the enterprise [tick one box and provide relevant information]
 - enterprise has had its financial statements audited;
name of auditor
 - enterprise is required by law to have an independent review of its financial statements
name of independent reviewer
 - enterprise has not had its financial statements audited and is not required by law to have an independent review or audit of such statements
- 5) The attached income statement and balance sheet is a true extract from the financial statements complying with applicable legislation for the preceding financial year within 12 months of the financial year end.
[Attach the income statement and the balance sheet contained in the financial statement]
- 6) The annual turnover for the last financial year is R
- 7) The total assets as at the end of the last financial year is R
- 8) The total liabilities as at the end of the financial year is R

I hereby declare that the contents of this Declaration are within my personal knowledge and save where stated otherwise are to the best of my belief both true and correct.

Signed _____ Date _____
 Name _____ Position _____
 Tender _____



FORM F CONTRACTOR’S HEALTH AND SAFETY DECLARATION

In terms of Clause 4(4) of the OHS Act 1993 Construction Regulations 2003 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHS Act 1993 Construction Regulations 2003.

To that effect a person duly authorised by the Tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHS Act 1993 Construction Regulations 2003.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I will be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHS Act 1993 Construction Regulations 2003 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHS Act 1993 Construction Regulations 2003, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 30 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHS Act 1993 Construction Regulations 2003 and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 3 of the OHS Act 1993 Construction Regulations 2003 before I will be allowed to proceed with any work under the contract.

SIGNATURE: DATE:
(of person authorised to sign on behalf of the Tenderer)

FORM G



FORM G HEALTH AND SAFETY ACT AGREEMENT

AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety, Act No. 85 of 1993, hereinafter referred to as 'the Act', that the Contractor as an employer in its own right and in its capacity as Contractor for the execution of the works, shall have certain obligations and that the following arrangements shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:-

- i) The Contractor undertakes to acquaint the appropriate officials and the employees of the Contractor with all relevant provisions of the Act, and the regulations promulgated in terms of the Act, and
- ii) The Contractor undertake that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with, and
- iii) The Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and regulations and expressly absolves the Employer from being obliged to comply with any of the aforesaid duties, obligations and prohibitions.
- iv) The Contractor shall be obliged to report forthwith to the Employer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the Employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

SIGNED at On this day of 20.....

For and on behalf of the Contractor: Name: _____

Company Name: _____

AS WITNESSES:

1. _____ 2. _____

for and on behalf of the Employer:

AS WITNESSES:

1. _____ 2. _____

NOTE: As and when required; the Contractor will be required to sign project specific agreements in terms of section 37(2) of the Occupational Health and Safety Act no 85 of 1993.



ANNEXURE A B – BBEE STATUS VERIFICATION CERTIFICATE

Preferencing schedule: Broad Based Black Economic Empowerment Status

Preamble

Section 10(b) of the Broad-Based Black Economic Empowerment Act of 2003 (Act No. 53 of 2003) states that “Every organ of state and public entity must take into account and, as far as is reasonably possible, apply any **relevant code of good practice** issued in terms of this Act in developing and implementing a preferential procurement policy.”

A number of codes of good practice have been issued in terms of Section 9(1) of the B-BBEE Act of 2003 including a generic code of good practice and various sector codes. The sector codes vary the metrics, weightings and targets used in the generic code of good practice to establish the overall performance of an entity and its B-BBEE status. The B-BBEE status needs to be assessed in accordance with the applicable code.

1 Conditions associated with the granting of preferences

Tenderers who claim a preference shall provide sufficient evidence of their B-BBEE Status in accordance with the requirements of section 2 in respect of the applicable code as at the closing time for submissions, failing which their claims for preferences will be rejected.

2 Sufficient evidence of qualification

2.1 Exempted micro enterprises

Sufficient evidence of qualification as an Exempted Micro-Enterprise is a :

- a) a sworn affidavit - B-BBEE Exempted Micro Enterprise (see www.thedti.gov.za/gazettes/Affidavit_EME.pdf)

2.2 Enterprises other than micro exempted enterprises

Sufficient evidence of B-BBEE Status is:

- a) A valid copy of the certificate issued by a verification agency accredited by the South African National Accreditation System (SANAS), or.
- b) a sworn affidavit – B-BBEE Qualifying Small Enterprise (see www.thedti.gov.za/gazettes/BBEE_QUALIFYING_SMALL_ENTERPRISE.pdf)

3 Declaration

The Tenderer declares that

- a) the tendering entity is a level contributor as stated in the submitted evidence of qualification as at the closing date for submissions
- b) the tendering entity has been measured in terms of the following code (*tick applicable box*)
- Generic code of good practice
- Other – specify
- c) the contents of the declarations made in terms of a) and b) above are within my personal knowledge and are to the best of my belief both true and correct

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the Tenderer confirms that he / she understands the conditions under which such preferences are granted and confirms that the Tenderer satisfies the conditions pertaining to the granting of tender preferences.

ANNEXURE A



Signature :

Name :

Duly authorised to sign on behalf of :

Telephone :

Fax: Date :

Name of witness Signature of witness

Note: 1) Failure to complete the declaration will lead to the rejection of a claim for a preference
2) Supporting documentation of the abovementioned claim for a preference must be submitted with the tender submission to be eligible for a preference

NOTE: ATTACHED TOGETHER WITH PREFERENCING SCHEDULE THE FOLLOWING:

Attached B-BBEE Status level in original or certified copy of B-BBEE certificate issued in accordance with the revised Notice of Clarification published in the Notice 44 of 2015 published in Government Gazette 38799 on 15 May 2015 by the Department of Trade and Industry.

Attached hereto this page is my / our B-BBEE Status Level verification Certificate/s. My failure to submit the certificate/s with my / our tender document may result in the award of 0 (zero) points for specific goals.

SIGNATURE: DATE:
(of person authorised to sign on behalf of the Tenderer)

ANNEXURE B



ANNEXURE B TAX COMPLIANCE STATUS PIN PAGE

CONTRACTOR'S TAX COMPLIANCE STATUS PIN PAGE

Attached to this page: A valid copy of valid Tax Compliance Status pin page (to be confirmed/verified through SARS).

Attached hereto this page is my / our copy of valid tax compliance status pin page. My / our failure to submit the status pin page with my / our tender document and also to maintain a Tax compliance status on CSD during the tendering period may lead to the conclusion that I am / we are not eligible to be awarded this tender.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:

ANNEXURE C



ANNEXURE C CENTRAL SUPPLIER DATABASE

CONTRACTOR'S CENTRAL SUPPLIER DATABASE (CSD) PROOF OF REGISTRATION

Attached to this page: Central Supplier Database (CSD) proof of registration containing MAAA number.

Attached hereto this page is my / our Proof of Registration with National Treasury's Central Supplier Database (CSD).

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:

ANNEXURE D



**ANNEXURE D COMPANY INTELLECTUAL PROPERTY
COMMISSION CERTIFICATE**

**CONTRACTOR'S COMPANY INTELLECTUAL PROPERTY COMMISSION (CIPC/CIPRO) PROOF
OF REGISTRATION**

Attached to this page: Copies of Bidder's CIPC / CIPRO company registration documents listing all members with percentages.

Attached hereto this page is my / our Proof of CIPC/CIPRO active registration certificate.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:

ANNEXURE E



ANNEXURE E LETTER OF GOOD STANDING FROM COIDA

CONTRACTOR'S LETTER OF GOOD STANDING FROM COIDA

Attached to this page: A valid letter of Good Standing with the Compensation Commissioner in terms of the Compensation for Occupational Injuries and Diseases Act No 130 of 1993 and or third parties' insurance registered with Financial Service Board

Attached hereto this page is my / our Letter of Good Standing from COIDA.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:



ANNEXURE F COMPANY EXPERIENCE

COMPANY EXPERIENCE (AS PER MANDATORY REQUIREMENTS)

Submit one (1) Client Reference letter signed by both parties.

This should be conducted in the recent 10 years for specifically temporary formwork, design, manufacture, deliver on site and installed inspections for that each project for the value of at least R5 million or more.

Provide proof of value together with the Client Refence letter, for previous similar work done. Where the value of the work is stated in other currencies, state the exchange rate at the time of work execution.

The client reference should have the following:

- Description of the project / title of project,
- Scope of work completed,
- Period of the contract / time frame,
- Contract amount/value of work done,
- Client Name, &
- Client contact details (Telephone number, Cell phone number and E-mail Address),
- Reference letter to be sign by client/employer

The three client letters will be used to do reference checks on the contractor.

Only the following will be considered as similar work conducted:

Completed work/project where temporary works design, manufacture, delivery, inspection on site for:

- Water treatment Works
- Waste Water treatment works
- Dams
- Reservoirs
- Other large and / or complex water related structures

will count for relevant work done and therefor will be accepted for evaluation.

Indicated on "Annexure G: Schedule of similar work undertaken" completed.

Attached hereto this page is my / our documents as listed above.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:



ANNEXURE H

ANNEXURE H MANAGERIAL CAPACITY

MANAGERIAL CAPACITY

[MAX POINTS: 30]

The tendered shall attach as follows but not limited to:

CV's of key personnel showing applicable experience (inclusive of certified certificates for qualifications, registration, accreditation / affiliations and other applicable courses)

As listed in "Schedule of qualifications / experience of key project team members" – Annexure I

For this project the following identified key project team members (but not limited to) is required:

Professional Civil Engineer:

- Must have a valid qualification (NDip OR BTech OR BSc OR BEng Degree) in Civil Engineering, which cover at least 3 year study period and contain a subject or module which cover Structures.
- Must be a professional registered Civil Tech OR Techni OR Engineer that will signed off designs.
- Specific Training by the Manufacturer/Supplier of the specific type of Temporary works System used in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000).
- Shall have proven experience of at least 3 years working experience as a Temporary works designer at the time.
- Is familiar with the Act and with the applicable regulations made under the Act.

Temporary works Designer:

- Must have a valid qualification (NDip OR BTech OR BSc OR BEng Degree) in Civil Engineering, which cover at least 3 year study period and contain a subject or module which cover Structures.
- Specific Training by the Manufacturer/Supplier of the specific type of Temporary works System used in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000).
- Shall have proven experience of at least 3 years working experience as a Temporary works designer at the time.
- Is familiar with the Act and with the applicable regulations made under the Act.

Temporary works Inspector:

- Qualified in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), at least to inspect, formwork, false work, Scaffolding, Support work, and temporary suspended platforms, on and for various highest.
- Specific Training by the Manufacturer/Supplier of the specific type of Temporary works System used in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000).
- Shall have proven experience of at least 3 years working experience as a Temporary works inspector at the time.
- Is familiar with the Act and with the applicable regulations made under the Act.

This scoring system as indicated in Table H.1 shall be used to score this criteria

Attached hereto this page is my / our documents as listed above.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:



ANNEXURE H

Table H.1: Evaluation of Managerial Capacity

TABLE H.1 FUNCTIONAL CRITERIA: 2- MANAGERIAL CAPACITY	[MAX30]	SCORE
SUB-CRITERIA: PROFESSIONAL CIVIL ENGINEER		
[MAX 10]		
Proof that Engineer has more than 15 years of relevant work experience.		[10 points]
Proof that Engineer has more than 10 years but less than 15 years of relevant work experience.		[7 points]
Proof that Engineer has less than 10 years but more than 5 years of relevant work experience.		[5 points]
Proof that Engineer has less than 5 years but more than 3 years of relevant work experience.		[3 points]
If the Engineer has less than 3 years will mean that the Bidder is non-responsive.		[0 points]
COMPLETE ANNEXURE J & J-1 AND ATTACHED CV'S (proven relevant qualifications, experience & registration)		
SUB-CRITERIA: TEMPORARY WORKS DESIGNER		
[MAX 10]		
Proof that Designer has more than 15 years of relevant work experience.		[10 points]
Proof that Designer has less than 15 years but more than 10 years of relevant work experience.		[7 points]
Proof that Designer has less than 10 years but more than 5 years of relevant work experience.		[5 points]
Proof that Designer has less than 5 years but more than 3 years of relevant work experience.		[3 points]
If the Designer has less than 3 years will mean that the Bidder is non-responsive.		[0 points]
COMPLETE ANNEXURE J & J-1 AND ATTACHED CV'S (proven relevant qualifications, experience & registration)		
SUB-CRITERIA: TEMPORARY WORKS INSPECTOR		
[MAX 10]		
Proof that Inspector has more than 15 years of relevant work experience.		[10 points]
Proof that Inspector has less than 15 years but more than 10 years of relevant work experience.		[7 points]
Proof that Inspector has less than 10 years but more than 5 years of relevant work experience.		[5points]
Proof that Inspector has less than 5 years but more than 3 years of relevant work experience.		[3points]
If the Inspector has less than 3 years will mean that the Bidder is non-responsive.		[0 points]
COMPLETE ANNEXURE J & J-1 AND ATTACHED CV'S (proven relevant qualifications, experience & registration)		
TOTAL		

ANNEXURE J



DID YOU ATTACH A COPY OF VALID TAX COMPLIANCE STATUS PIN PAGE OF ALL SUB-CONTRACTORS AS LISTED ABOVE?

YES NO

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' COPY OF VALID TAX COMPLIANCE STATUS PIN PAGE, THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH CERTIFIED COPIES OF VALID B-BBEE CERTIFICATES OF ALL SUB-CONTRACTORS' AS LISTED ABOVE?

YES NO

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' COPIES OF VALID B-BEE CERTIFICATES OR IN CASE OF EMEs VALID SWORN AFFIDAVIT THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH CERTIFIED COPIES OF VALID ID DOCUMENTS OF OWNERS OF ALL SUB-CONTRACTORS' AS LISTED ABOVE?

YES NO

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' CERTIFIED COPIES OF VALID ID DOCUMENT, THE BID MAY BE REGARDED AS NON-RESPONSIVE

DID YOU ATTACH COPIES OF INCORPORATION OF THE COMPANY (CIPC CERTIFICATES) OF ALL SUB-CONTRACTORS AS LISTED ABOVE?

YES NO

FAILURE BY THE BIDDER TO ATTACH LISTED SUB-CONTRACTORS' COPIES OF INCORPORATION OF COMPANY (CIPC CERTIFICATES), THE BID MAY BE REGARDED AS NON-RESPONSIVE

NAME OF BIDDER: _____

COMPANY NAME: _____

SIGNATURE OF BIDDER: _____

DATE: _____



ANNEXURE K PRELIMINARY TEMPORARY WORKS DESIGNS

The tenderer must acquaint themselves with the scope of work (Section C3) before submitting preliminary designs for the Intake Tower.

Preliminary designs for the different sections on the Intake Tower as divided into and explained in C3 to be submitted as returnable documents under section T2.

Table K.1: Preliminary Intake Tower designs points allocation

PRELIMINARY INTAKE TOWER DESIGNS		TOTAL POINTS 70
1	Outside Perimeter Walls	20
2	Dry Well Valve Chamber	10
3	Shaft System/s	30
4	Overall design and how all items will fit together for a lift	10

Table K.1 will be score in the Table K.2, as per SANS ISO 10854-3:2022 Ed2 Table A4.

Score allocated needs to be applied as a percentage of total maximum allowed points for the evaluated specific criteria.

The preliminary design should be for the following sections (but not limited to):

- Intake Tower Outside Perimeter Walls
- Intake Tower Dry Well Valve Chamber
- Lift Shaft
- Stair shaft
- Service Shaft
- Overall design and how all items will fit together for a lift

Detailed material list to form part of the signed off preliminary designs. These materials list should indicated the following:

- Standard items
- Special items (to be manufactured)
- Consumable items
- Lead time needed to deliver these various items on site.

Attached hereto this page is my / our designs as listed above.

SIGNATURE:
(of person authorised to sign on behalf of the Tenderer)

DATE:

ANNEXURE K



Table K.2: Point allocation for each section

(4) FUNCTIONAL CRITERIA- DETAILED DESIGNS (ref T1: 6.11.8 & 6.11.9)		(MAX TOTAL POINTS 70)	
PRELIMINARY INTAKE TOWER DESIGNS	SCORE out of 0-100%	WEIGHT (POINTS)	TOTAL (% score x points)
Outside Perimeter Walls		20	
Dry Well Valve Chamber		10	
Shaft System/s		30	
Overall design and how all items will fit together for a lift		10	

SIGNATURE: DATE:
(of person authorised to sign on behalf of the Tenderer)



DEPARTMENT OF WATER AND SANITATION

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**THE DESIGN, PURCHASE, SUPPLY AND DELIVERY OF
FORMWORK FOR THE INLET TOWER AND THE IVRCC
SECTIONS FOR A PERIOD OF 55 MONTHS FOR THE
RAISING OF CLANWILLIAM DAM IN THE WESTERN CAPE**

C1: CONTRACT DATA

CONTENTS

C1.1 GENERAL CONDITIONS OF CONTRACT

C1.2. SPECIAL CONDITIONS OF CONTRACT

C1.1 GENERAL CONDITIONS OF CONTRACT

The Contract shall be governed by the “Government Procurement General Conditions of Contract” – July 2010. It is obtainable from www.treasury.gov.za.

The only variations from these General Conditions of Contract shall be given in the Special conditions of Contract below. Whenever there is a conflict, the provisions in the Special Conditions and contract specific data of Contract shall prevail.

C1.2. SPECIAL CONDITIONS OF CONTRACT

C1.2.1 GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, to the extent specified below, and shall take precedence and shall govern.

ITEM	SUB-CLAUSE	DATA
Application	2.2	Additional specifications follow from clause 35 below.
Performance Security	7.1	Performance guarantee of 2,5% of Contract sum.
	7.4	Including any warranty obligations includes design work for temporary form and support work over the period of 55 month.
Packing	9.2	All formwork and support work items and accessories to be packed in strong durable containers, which can be lifted/moved with a fork lift. Similar type and size of items to be packed together and clearly marked with labels on the containers. These labelling must be durable and recognisable with ease.
Delivery and documents	10.1	All deliveries will be delivered to the site (refer to C3 for site delivery details). Delivery note with detail item description, sizes and quantities to be provided with each delivery on a specific design. These documents will be signed on delivery by a designated person. A copy of the delivery note will be provided to the designated person.
	10.2	Delivery documents, Material quality documents,& Designs.
Insurance	11.1	To be insured against any loses at all time, and to be able to provide proof of such insurance at any time requested
Incidental services	13.1	a) Performance or supervision on site b) All lifting lugs/platforms and or specialised materials/tools/equipment to be supplied with all DOL documents c) Furnishing of detailed signed off drawings/designs and any other documentation required d) 55 months e) For erection and inspection
Warranty	15.4	14 days
Payment	16.1	An original Tax Invoice together with delivery note clearly stating the items and quantities delivered should be provided to the client. Payment will be done within 30 days of receipt of the Tax Invoice by depositing the payment directly into the bank account of the successful bidder. No cash payment will be done.

<p>Prices Prices</p>	<p>17.1</p>	<p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:</p> $(1 - x) \left[\frac{aL_t}{L_o} + \frac{bP_t}{P_o} + \frac{cM_t}{M_o} + \frac{dF_t}{F_o} - 1 \right]$ <p>x = 0,10 (Fixed) Values of coefficients are:</p> <table border="1" data-bbox="667 443 1353 667"> <thead> <tr> <th></th> <th>FACTOR S</th> <th>PERCENTAGE OF BID PRICE</th> </tr> </thead> <tbody> <tr> <td>Labour</td> <td>a</td> <td>15%</td> </tr> <tr> <td>Contractors Equipment</td> <td>b</td> <td>30%</td> </tr> <tr> <td>Material</td> <td>c</td> <td>45%</td> </tr> <tr> <td>Fuel</td> <td>d</td> <td>10%</td> </tr> <tr> <td></td> <td>TOTAL</td> <td>100%</td> </tr> </tbody> </table> <p>As per Statistics South Africa and published by SAFCEC from time to time. The definition and source of: "L_t" is the "labour Index": Labour (Lt): Statistical Release P0141, Table A – Consumer Price Index: Main Indices, Geographic indices. "P_t" is the "Plant Index": Plant (Pt): Statistical Release P0151.1, Table 4 – Mining and construction plant and equipment index, Plant and equipment. "M_t" is the "Materials Index": Materials (Mt): Statistical Release P0151.1, Table 6 – Civil engineering material indices, Civil engineering total. "F_t" is the Fuel Index: Fuel (Ft): Statistical Release P0142.1, Table 1 – PPI for final manufactured goods</p> <p>The base month used for the calculation will be 30 days before the closing date of the bid.</p>		FACTOR S	PERCENTAGE OF BID PRICE	Labour	a	15%	Contractors Equipment	b	30%	Material	c	45%	Fuel	d	10%		TOTAL	100%
	FACTOR S	PERCENTAGE OF BID PRICE																		
Labour	a	15%																		
Contractors Equipment	b	30%																		
Material	c	45%																		
Fuel	d	10%																		
	TOTAL	100%																		
<p>Penalties</p>	<p>22</p>	<p>R10 000,00 per working day</p>																		
<p>Settlement of Disputes</p>	<p>27.4</p>	<p>Procedure specification will be determined at contract stage.</p>																		



DEPARTMENT OF WATER AND SANITATION

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C2 PRICING DATA

CONTENTS

C2.1 PRICING INSTRUCTIONS

C2.2 BILL OF QUANTITIES

C2.1 PRICING INSTRUCTIONS

1. GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Tender Documents which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification), and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standardised Specifications and each Particular Specification, read together with the relevant clauses of the Project Specification and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

3. QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Bill of Quantities are estimated quantities only and will be subject to re-measuring during the execution of the work. Where quantities or sums are indicated as "Provisional, the Employer reserves the right to adjust the quantity or sum upwards or downwards as necessary, or the item can be omitted altogether. The Contractor shall obtain the Employers Agent's detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities, and the contract price for the completed contract shall be computed at the relevant unit rates and prices, all in accordance with the General and Special Conditions of Contract, the Specifications and Project Specifications, and the Drawings, et.. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

4. PRICING OF THE SCHEDULE

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the Tender is based. Reasonable unit rates and prices shall be entered in the Bill of Quantities as these will be used for the assessment of payment for any additional work that may have to be carried out.

Each item shall be priced and extended to the "Total" column by the Tenderer, with the exception of the items for which "rate only" is required or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

All rates and amounts quoted in the Bill of Quantities shall be in Rand and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities.

5. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

6. MONTHLY PAYMENTS

Unless otherwise specified in the Specifications and Project Specifications, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015 (Third edition), in respect of "sum" items in the Schedule of Quantities shall be by means of interim progress instalments assessed by the Employers Agent and based on the measure in which the work actually carried out relates to the extent of the work to be done by the Contractor.

7. UNITS OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units for which standard international abbreviations are used. Abbreviations used in the Bill of Quantities, including some non-standard abbreviations, are as follows:

Non-Standard Abbreviations	
%	percent
No.	number
Prov sum	Provisional sum
R/only	Rate only
Sum	lump sum
Standard Abbreviations	
kPa	kilopascal
M	metre
m ²	square metre
m ³	cubic metre
MN	meganewton
MN.m	meganewton-metre
MPa	megapascal
T	ton (1000 kg)

For the purpose of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:

Unit:	The unit of measurement for each item of work
Quantity:	The number of units of work for each item.
Rate:	The agreed payment per unit of measurement.
Amount:	The product of the quantity and the agreed rate for an item.
Lump-sum:	An agreed amount for an item, the extent of which is described in the Bills of Quantities but the quantity of work of which is not measured in any units.

8. ARITHMETICAL ERRORS

Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.

If a bill of quantities (or schedule of quantities or schedule of rates) applies and there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the line item total shall govern and the rate shall be corrected. However, in exceptional cases where, in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in either the unit rate or line total, or where the error was obviously not a result of incorrect arithmetic but rather the result of a writing error, the Employer reserves the right to correct either the tendered rate or the line total as the case may be, subject to clarification in terms of SANS 10845 -3 Clause 4.10.

Where there is an error in the total of the prices, either as a result of other corrections required by this checking process or in the Tenderer's addition of prices, the total of the prices shall be adjusted to obtain the correct tender value.

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C2.2 BILL OF QUANTITIES

SBD 3.2

PRICING SCHEDULE – NON-FIRM PRICES
(PURCHASES)

Name of Bidder.....	Bid number.....
Closing Time 11:00	Closing date.....

**OFFER TO BE VALID FOR 120 DAYS FROM CLOSING DATE OF BID
(PROJECT DURATION TO BE CONSIDERED WHEN PRICING IS 55 MONTHS)**

Please note a re-conciliation calculation will be performed to ensure the dimensions of the panels offered tie up with the m² required for the number of panels required against the specified panel dimensions for each item type.

NO	PAY REF	SHORT DESCRIPTION	UNIT	QTY	RATE	AMOUNT
PART A: PURCHASE OFFER TO BE VALID FOR 120 DAYS FROM CLOSING DATE OF BID						
SECTION A1 - OUTSIDE PERIMETER WALLS TEMPORARY WORKS SYSTEM (Refer Drawing CWD 4059 & 4063)						
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:						
A1.1	PS 2 / PS 9	Type A	Outside perimeter wall	Each	25	
				m ²	162	.....
A1.2	PS 2 / PS 9	Type B	Outside perimeter wall	Each	3	
				m ²	19	.....
A1.3	PS 2 / PS 9	Type Ba	Outside perimeter wall	Each	3	
				m ²	19	.....
A1.4	PS 2 / PS 9	Type C	Outside perimeter wall	Each	4	
				m ²	26	.....
A1.5	PS 2 / PS 9	Type D	Outside perimeter wall	Each	4	
				m ²	23	.....
A1.6	PS 2 / PS 9	Type E	Outside perimeter wall	Each	2	
				m ²	19	.....

A1.7	PS 2 / PS 9	Type F	Outside perimeter wall	Each	1		
				m ²	6	.....	.....
A1.8	PS 2 / PS 9	Type G	Working platform	Each	2		
				m ²	40	.....	.....
A1.9	PS 2 / PS 9	Type BA	Recess outside perimeter wall	Each	4		
				m ²	13	.....	.....
A1.10	PS 2 / PS 9	Type BB	Recess outside perimeter wall	Each	4		
				m ²	17	.....	.....
A1.11	PS 2 / PS 9	Type BC	Recess outside perimeter wall	Each	4		
				m ²	16	.....	.....
A1.12	PS 2 / PS 9	Type BD	Recess outside perimeter wall	Each	4		
				m ²	39	.....	.....
A1.13	PS 2 / PS 9	Type BDa	Recess outside perimeter wall	Each	4		
				m ²	25	.....	.....
Total Carried Forward to Summary - Sub Total A1 =							.....

SECTION A2 - DRY WELL VALVE CHAMBER TEMPORARY WORKS SYSTEM							
(Refer Drawing CWD 4055, 4058 & 4059)							
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:							
A2.1	PS 2 / PS 9	Type H	Downstream face of Valve Chamber	Each	2		
				m ²	28	.....	.....
A2.2	PS 2 / PS 9	Type I	Upstream face of Valve Chamber	Each	2		
				m ²	23	.....	.....
A2.3	PS 2 / PS 9	Type J	Side wall face of Valve Chamber	Each	2		
				m ²	33	.....	.....
A2.4	PS 2 / PS 9	Type K	Roof support and decking for Valve chamber	Each	4		
				m ²	29	.....	.....
Total Carried Forward to Summary - Sub Total A2 =							.....

SECTION A3 - SHAFT TEMPORARY WORKS SYSTEM /S (Refer Drawing CWD 4053, 4059, 4061, 4056, 4058 & 4044)							
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:							
A3.1	PS 2 / PS 9	Type M	Shaft formwork on single side climbing platform and hanging platform	Each	1		
				m ²	32	.....	.....
A3.2	PS 2 / PS 9	Type L	Single side formwork for service shaft	Each	1		
				m ²	52	.....	.....
A3.3	PS 2 / PS 9	Type N	Staircase formwork on climbing platform and hanging platform	Each	1		
				m ²	55	.....	.....
Total Carried Forward to Summary - Sub Total A3 =							.....

SECTION A4 - IVRCC UPSTREAM TEMPORARY WORKS SYSTEM (Refer Drawing CWD 0052, 2233 & 2255)							
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:							
A4.1	PS 2 / PS 9	Type O	RCC upstream	Each	142		
				m ²	921	.....	.....
Total Carried Forward to Summary - Sub Total A4 =							.....

SECTION A5 - IVRCC DOWNSTREAM STEP TEMPORARY WORKS SYSTEM (Refer Drawing CWD 0052, 1001, 2233 & 2255)							
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:							
A5.1	PS 2 / PS 9	Type P	RCC downstream Step Formwork	Each	204		
				m ²	661	.....	.....
Total Carried Forward to Summary - Sub Total A5 =							.....

SECTION A6 - IVRCC COFFER DAM AND APPROACH CHANNEL TEMPORARY WORKS (Refer Drawing CWD 0052, 1001 – 1007)							
Temporary works design, manufacture and or supply and deliver including anchors and accessories for:							
A6.1	PS 2 / PS 9	Type Q	RCC Cofferdam Conners, infill parts (special) and scaffolding/access	Each	204		
				m ²	100	.....	.....

SUMMARY OF BILL OF QUANTITIES		
SECTION	DESCRIPTION	AMOUNT
A1	OUTSIDE PERIMETER WALLS TEMPORARY WORKS SYSTEM	.....
A2	DRY WELL VALVE CHAMBER TEMPORARY WORKS SYSTEM	.....
A3	SHAFT TEMPORARY WORKS SYSTEM /S	.....
A4	IVRCC UPSTREAM TEMPORARY WORKS SYSTEM	.....
A5	IVRCC DOWNSTREAM STEP TEMPORARY WORKS SYSTEM	.....
A6	IVRCC COFFER DAM AND APPROACH CHANNEL TEMPORARY WORKS	.....
B	SUB TOTAL (B) = (A1 + A2 + A3 + A4 + A5 + A6)	.....
C	10% CONTINGENCIES (C) OF B	.....
D	SUB TOTAL D (B + C)	.....
E	20% ESCALATION (E) OF D	.....
F	SUB TOTAL F (D + E)	.....
	15% VAT OF F	.....
	TOTAL incl. VAT (F + VAT)	.....

NOTE: ALL FIELDS ON THIS FORM SHOULD BE COMPLETED IN FULL. IF A FIELD IS NOT APPLICABLE, THE FIELD SHOULD BE INDICATED AS "NOT APPLICABLE".

Required by: Department of Water and Sanitation

At (Place of delivery): Clanwilliam dam

Delivery basis: Free on road to Clanwilliam dam

Location (Country of origin) where product is sourced from (factory/depot)

Are you the manufacturer of the product offered? *YES / NO

Does the offer comply with the specification (s)?: * YES / NO

If **not** to specifications, indicated deviations(s):

Period required for delivery after receipt of order:

Delivery period: *FIRM / NOT FIRM

Is the price firm? *YES / NO

If the price is not firm state the escalation formula / period:

(DWS will entertain any claims for non-firm prices increases claimed at a later date unless such non-firm price adjustments are clearly motivated under Price Adjustments)

NOTE: All delivery costs must be included in the bid price.

Failure to complete all the relevant information in SBD 3.2 will render your bid as non-responsive.

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

- NON-FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON-FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
- IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$(1 - x) \left[\frac{aL_t}{L_o} + \frac{bP_t}{P_o} + \frac{cM_t}{M_o} + \frac{dF_t}{F_o} - 1 \right]$$

Where:

- X = Fixed 10% (0,10) of the original bid price. Is portion of the bid price remains firm, it is not subject to any price escalations.
- a = Factor of the bid price for Labour
- b = Factor of the bid price for Contractors Equipment
- c = Factor of the bid price for Material
- d = Factor of the bid price for Fuel

The total of the various factors “a”, “b”, “c”, “d” must add up to 100%

“Lt”, “Pt”, “Mt” & “Ft” = The indices are available from the STATS SA website **(As defined in C1.2.3 – Clause 6.8.2):**

Labour (Lt): Statistical Release P0141, Table A – Consumer Price Index: Main Indices, Geographic indices.

Fuel (Ft): Statistical Release P0142.1, Table 1 – PPI for final manufactured goods, Diesel (there is only 1 value for diesel since January 2018 , not split anymore).

Materials (Mt): Statistical Release P0151.1, Table 6 – Civil engineering material indices, Civil engineering total.

Plant (Pt): Statistical Release P0151.1, Table 4 – Mining and construction plant and equipment index, Plant and equipment.

- The following index/indices must be used to calculate your bid price: **(As per C1.2.3 Contract data: THE INDICES BASED DATE WILL BE 30 DAYS BEFORE TENDER CLOSING DATE- CLAUSE 6.8.2)**

All index’s based date (closing of tender) : Date _____

- FURNISH A BREAKDOWN OF PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTORS	PERCENTAGE OF BID PRICE
a	15%
b	30%
c	45%
d	10%
TOTAL	100%

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

I / we fully agree to these price escalation adjustment.

SIGNATURE: DATE:
(of person authorised to sign on behalf of the Tenderer)



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C3: SCOPE OF WORKS

CONTENTS

C3.1 STANDARD SPECIFICATION

C3.2 PROJECT SPECIFICATION

C3.1 STANDARD SPECIFICATION

SS 1 APPLICABLE STANDARD SPECIFICATIONS

In the event of any discrepancy between a part or parts of the Standardised or Particular Specifications and the Project Specifications, the Project Specifications and Particular Specifications shall take precedence. In the event of a discrepancy between the Specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Employers Agent before the execution of the work under the relevant item.

The applicable standard specifications are mentioned in the Project Specification and Particular specification.

List of Standard Specifications applicable (**but not limited to**):

SANS 2001-CC1: 2012 Edition 1 - Construction Works Part CC1: Concrete works (Structural). Section 4.3 formwork as amended;

SANS 10085-1: 2004 Edition 1.1 – “ The Design, Erection, Use and Inspection of Access Scaffolding – Part 1: Steel access scaffolding”; as amended

SANS 51808:1999 Edition 1 - “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”;

SANS 1903:2007 Edition 1.1 - “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”. (Use in conjunction with SANS 51808)

SANS 10162 – “The structural use of steel”

SANS 10163 – “The structural use of timber”

SANS 10160 – “Basis of structural design and actions for the buildings and industrial structures”

SANS 1200 – “ Standardized Specifications for Civil Engineering Construction”

The Red Book - South African Steel Construction handbook

OHS Act & regulations (other than agreements / specifications)

(All work shall be done in accordance with the specifications listed in the Project Specification, the Particular Specifications and Drawings.)

C3.2 PROJECT SPECIFICATION

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C3.2 PROJECT SPECIFICATION

PS 1. DESCRIPTION OF THE PROJECT

The raising of Clanwilliam Dam, which will be the first phase of the Olifants-Doorn River. Water Resources Project (ODRWRP) will increase the yield of the dam by about 70 Mm³ per annum to augment the water supplies to the Olifants River irrigation scheme situated in the north-western part of the Western Cape province, as well as to assist in the development of resource-poor farmers.

Clanwilliam Dam is located on the Olifants River, in the Western Cape, approximately 2 km South West of the town of Clanwilliam. The original dam was constructed in 1932-1935 (38m high from the base). The existing structure is a concrete gravity dam, consisting of a controlled ogee gravity spillway with 13 vertical crest gates. The length of the wall is 255 m. The total spillway length is 117,58 m, including the piers between the gates. The dam was raised in 1964 with vertical crest gates. Tensioned cables were supplied to ensure stability of the dam wall.

Currently, water is released downstream via the Olifants River to Bulshoek Weir from where the water is diverted into the dilapidated irrigation canal situated on the left bank. Water is also released from the existing outlet works situated on the right bank into an irrigation canal situated on the right bank, to the pump station on the right bank supplying water to the town of Clanwilliam, and to the hydropower plant situated downstream on the right bank.

The feasibility investigation for raising the dam was completed at the end of 2007 and the Record of Decision (ROD) was issued on 12 May 2009 by the Department of Environmental Affairs. Approval by the Minister for raising the dam by 13 m was issued on 18 August 2010.

In order to comply with current dam safety standards, the Department of Water and Sanitation is also required to implement remedial measures with the raising in the height of the dam wall.

The raised dam wall will be approximately 370 m in length and 49 m in maximum height. At full supply level the reservoir will cover a surface area of approximately 2 022 ha and capacity of 344,3 million cubic metre. The works include addition of concrete on the downstream side, extending the apron, construction of a free-standing intake tower, river outlet control house, a power generating house, short tunnel and coffer dam works on the upstream side, as well as various other pipe outlet structures on the downstream side. This work must be done without interfering with the day-to-day operation of the dam.

PS 2. SCOPE OF THE CONTRACT

PS2.1 GENERAL

The design and temporary works materials for the construction of the Clanwilliam dam is required.

For this contract the following sections design and temporary works materials is required:

- 1) Intake tower
- 2) IVRCC upstream
- 3) IVRCC downstream
- 4) Cofferdam Upstream of Intake Tower

These different sections requirements will be explain below.

Design's: shall include the liaise with the employer during the design phase, during manufacturing of material, as well as consultations after delivering of materials on site when materials is erected, and where needed in-house training. This might include the inspection after erection and sign off. This shall include any support that might be needed in regards to erection on site and or design changes, and changes to materials if effected by the design changes. All consultation should make provision for traveling and accommodation to and from site if needed.

Temporary works materials: will comprise of scaffolding, falsework and formwork as per the designs, inclusive of an accessories to be purchase. The materials shall be supply and delivered to site.

- It is a requirement that the temporary work shall be so designed and constructed that the concrete can be properly placed and compacted to the required shapes, finishes, positions, levels and dimensions as shown on the drawings.
- The temporary works and joints shall be capable of resisting the dead load, including the pressure exerted by the wet concrete, wind forces and all other superimposed loads and forces.
- The quality of the temporary work shall be such that the finished surface shown on the drawings is consistently produced.
- The temporary works will only be accepted if the design calculation(s) and drawing(s) signed by a registered professional engineer was submitted and approved by the contractor prior to manufacturing.
- The temporary works deliveries must accompany a list of items and quantities per type/structure.
- Various systems are to be designed and manufactured for crane handling.

The types will be priced as a whole per unit as per the Bill of Quantities for a purchase price. It must be noted that the supplier must include any delivery cost within the price. The following documents must be submitted with the tender/bid:

- A detailed designs for Intake Tower (each type of formwork with full details and design)
- A table listing all the components of the proposed formwork
- Clear indication on what is a standard item; special items and what must be supplied by the contractor.
- The required delivery period for each type/section from receipt of official order to delivery to site.

It is a requirement of this bid that the successful bidder/supplier shall submit a detail list of items with prices of each type/section that will be used in the case of replacement or augmentation.

Designer – must be qualified competent designer, which has the adequate training, experience, knowledge and qualification.

The designs and temporary works materials shall be the most efficient, economical and safest option/solution.

PS2.2 INTAKE TOWER

Temporary works for the Intake Tower works needs to be designed, supplied and delivered.

The temporary works proposed for the Intake Tower Works must consist of sections and adhere to the following standards (but not limited to):

- The section must consist of standard of the shelf formwork items and the number of items must be kept to the minimum e.g., big panels instead of made up of small size panels.
- The standard width of the section will be 2.7 m unless otherwise indicated in-full pieces, however this should be kept to a minimum.
- The formwork system must be easy to erect, to join and adjustable in height as well as verticality.
- The formwork system must be able to tilt backwards in order to install climbing cone/bracket etc.
- The formwork system must be supported on two support brackets with a hanging platform with railings and flooring with stiffeners as required for retrieving climbing cone/bracket and making concrete repairs as required
- The formwork system section must be able to be lifted as a whole by crane.
- The formwork system section must have a top access platform with railings and flooring.
- The formwork system must be able to join effectively and efficiently on all corners this should include corners as deemed necessary, however kept to a minimum.

- One sided formwork is to be kept in position by outside elements and not using tie throughs. A tie through will only be allowed where unavoidable and it may not form a conduit from face to face (Tie backs and anchors are not regarded as a tie through).
- All scaffolding for access should be included and any other temporary works not specified but needed.

The idea for the intake tower consists mainly of single side outside formwork together with, box-out sections, internal shaft and chamber formwork. Below sections explain the formwork requirements and planning in more detail.

Detailed designs of the different sections on the intake tower to be submitted as returnable documents under section T2.

PS2.2.1. OUTSIDE PERIMETER WALLS FOR THE INTAKE TOWER (Refer Drawing CWD 4059 & 4063)

One sided climbing formwork system to accommodate **2.1 m concrete lifts** is required. See below Figure 1 for proposed inlet tower lift heights.

The intake tower outside perimeter walls different sections required are indicated in Figure 2, Figure 3, and Figure 4 below, as follow:

Type A (25 off) - Figure 2

This is a standard 2.7 m wide section adhering to the required standards, and where needed in full sections to make up the outside wall parameters as indicated in **purple**.

Type B (3 off) - Figure 2

This is a special rounded section as indicated in **blue**. It will have rectangular lengths of 2.2 m and 1.525 m respectively. This section must be able to easily join Type A section.

Type Ba (3 off) - Figure 2

This is a mirror image of the special rounded section Type B as indicated **green**. This section must be able to easily join other Type section.

Type C (4 off) - Figure 2 & Figure 3

This is a standard 2.7 m wide section (same as Type A) with the exception that it does not require a hanging platform, indicated in **yellow** in Figure 2. Alternatively, the support brackets may be substituted with a working platform Type G (indicated in hatch section). This should include the box-out as preferred and indicated in Figure 3, Type BA. This section must be able to easily join Type B or Ba and Type D section.

Type D (4 off) - Figure 2 & Figure 3

This is a special 2.3 m wide section, indicated in **orange** in Figure 2. Note should be taken of the box out sections that could influence the support brackets. A straight section with add on box outs is preferred, as indicated in Figure 3, Type BB and Type BC. It does not require a hanging platform. Alternatively, the support brackets may be substituted with a working platform Type G. This section must be able to easily join Type C and Type E section on the corner.

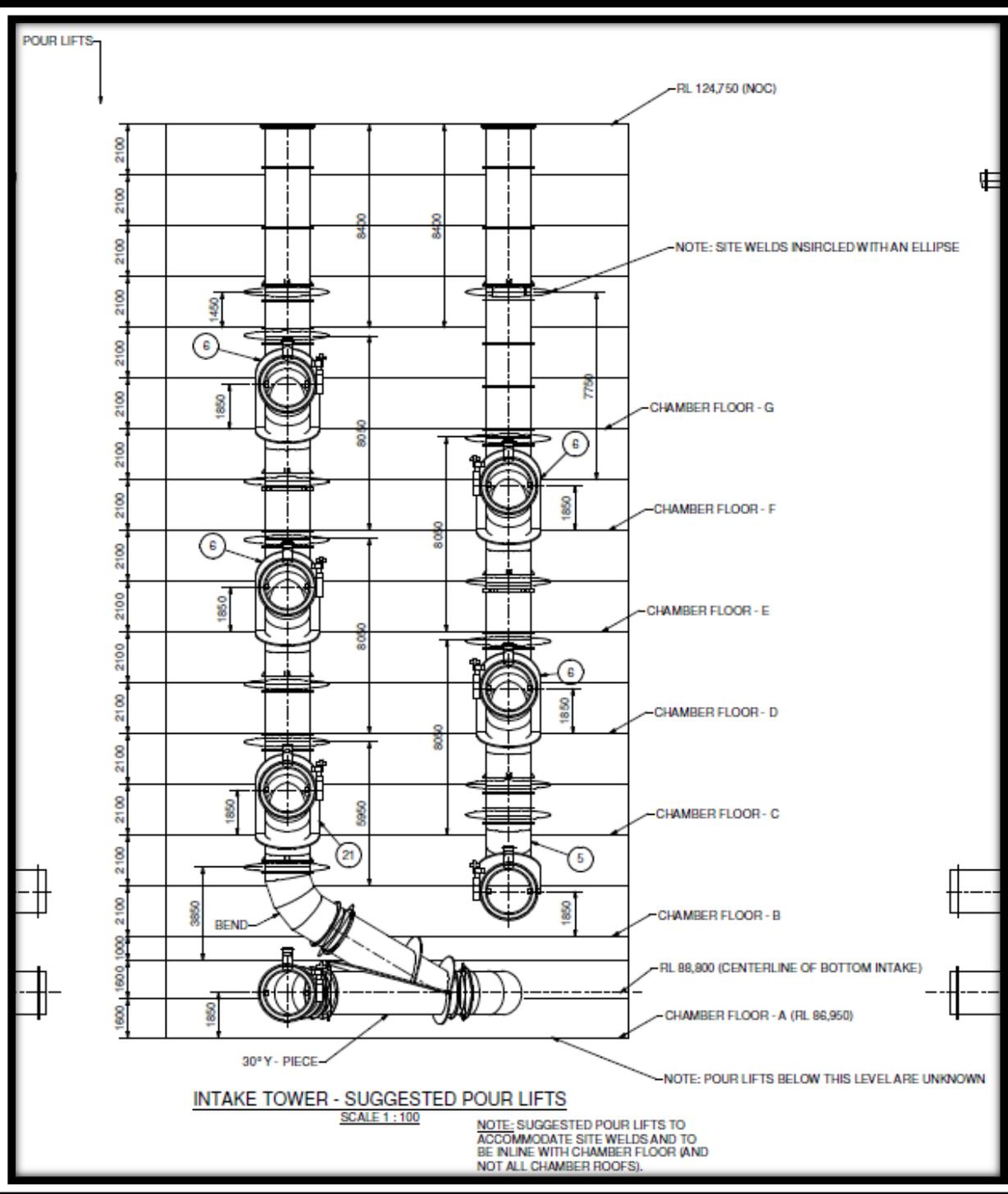


Figure 1: Proposed Inlet Tower Lift Heights

Type E (2 off) - Figure 2, Figure 3 & Figure 4

This is a special 3.8 m wide section, indicated in **red** in Figure 2. Note should be taken of the position of the pipe and the box out sections that could influence the support brackets. It does not require a hanging platform. Alternatively, the support brackets may be substituted with a working platform Type G. This section must be able to easily join Type D section on the corner. This shutters is future explained in detail under Type BD and Type BDa in Figure 4.

Type F (1 off) - Figure 2

This is a special 2,25 m wide section adhering to the required standards as indicated in Figure 2 in **light blue**. This section must be able to easily join Type B and Type B1 section.

Type G (2 off) - Figure 2 (Working Platform)

This is a 5.2 m long working platform spanning the 3.8 m between the walls for the wet well section, as indicated as **brown hatch section** in Figure 2. This platform shall be off the "Klik-Klak" type and be supported on folding bearing brackets in the position of former support bracket climbing cone/bracket. The working platform shall be lifted by crane to the next folding bearing bracket position after the formwork section with supporting brackets were lifted. Alternatively, if the working platform is used as supporting bracket for Type C, D and E sections it must be designed as such.

Recesses (Box outs) sections for the Wet-wells - Figure 3

Different size recesses will be required for the full lift height. The recesses (box outs) will be manufactured from steel with a lifting hook on top in order to be pulled up by crane. The recesses box outs will be bolted to the form in such a way that after the bolt is removed there will be no protruding elements preventing the formwork to be lifted upwards. The recesses (box outs) will be of such a nature that it prevents ingress of mortar into the recess (box outs) by filling it with a hard industrial foam or similar.

Type BA (4 off) – Figure 3

The recess is 395 mm deep by 550 mm wide to accommodate the thrash racks.

Type BB (4 off) – Figure 3

The recess is 250 mm deep by 1200 mm wide, tapered to accommodate the fine screens.

Type BC (4 off) – Figure 3

The recess is 250 mm deep by 1150 mm wide to accommodate the emergency gate.

Type BD (2 off) – Figure 3 & Figure 4

The recess is 250 mm deep by 4300 mm wide to accommodate the outlet pipe to 250 mm above the centre line of the outlet pipe. This can be divided into smaller sections if more practical. S

Type BDa (2 off) – Figure 3 & Figure 4

The recess is 250 mm deep by 4300 mm wide to accommodate the outlet pipe from 250 mm above the centre line of the outlet pipe. This can be divided into smaller sections if more practical.

PS 2.2.2. DRYWELL VALVE CHAMBER (Refer Drawing CWD 4055, 4058 & 4059)

One sided formwork system to accommodate a 2.1 m concrete lift is required. The formwork system proposed must consist of sections and adhere to the following standards:

- The section must consist of standard off the shelf formwork items and the number of items must be kept to the minimum e.g., big panels instead of made up of small size panels.
- The formwork system must be easy to erect, to join and adjustable in height as well as vertically.
- Formwork system should be mirrorable, to be able to use the various different drywell chambers.

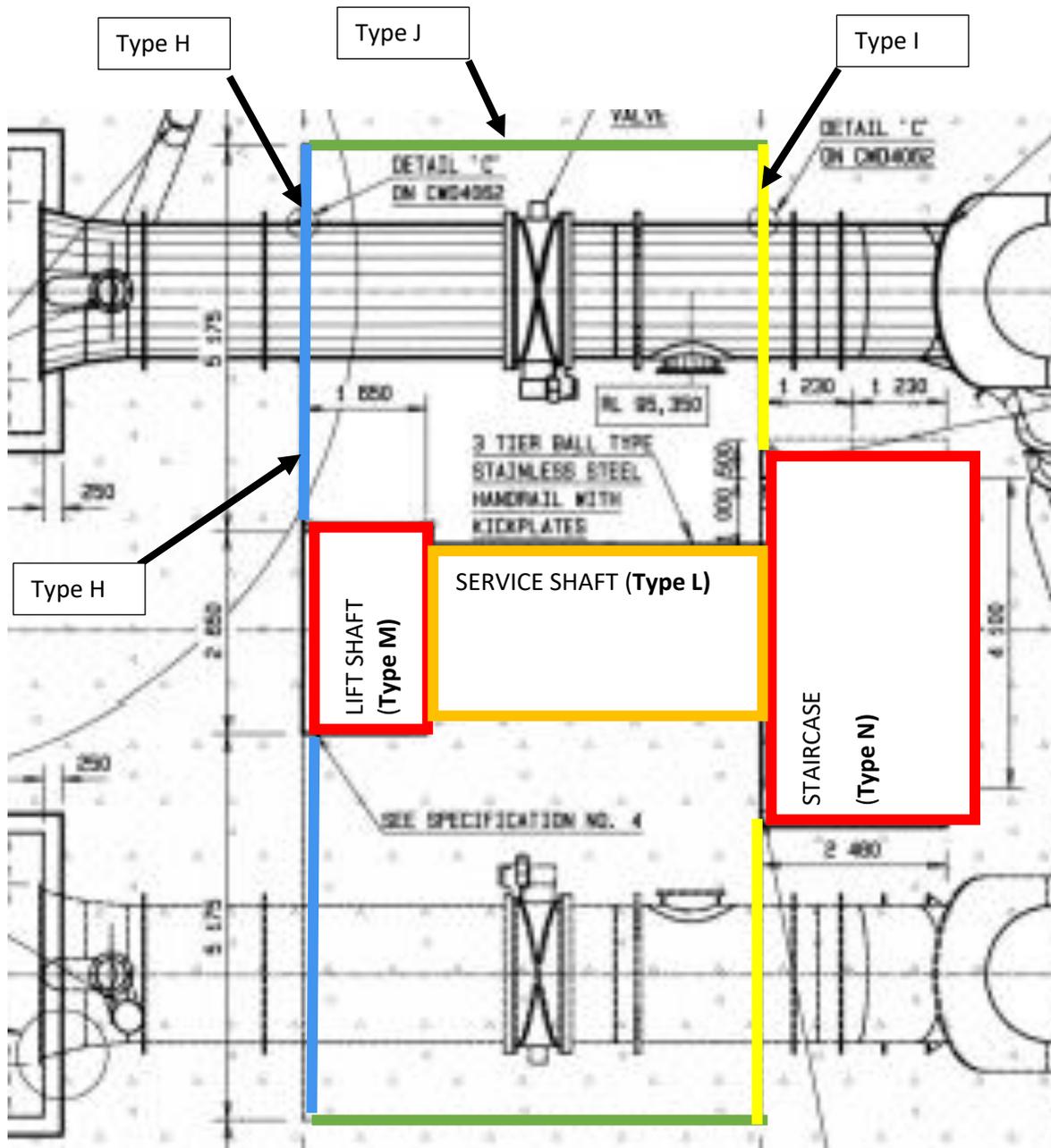


FIGURE 5: Position of shutters for Drywell Valve Chamber, Service Shaft, Lift shaft and Stair shaft

Type H (2 off) – Figure 5 & Figure 6 (Upstream face of Valve Chamber) (BLUE)

The installed pipe restricts the outside support to the vertical single side formwork. The formwork joins the side wall panel Type J and the lift shaft panel Type M. The intended method for formwork is shown in Figure 6.

The hatched areas will require special formwork and the solid areas represent infills. The rest of the formwork consists of an internal corner and standard big panel sizes.

The intention is to keep the bottom 2.7m high formwork in place, except for the two special panels on top of the pipe. The next 2.4 / 2.7m panel lift will be placed on top of the bottom 2.7m high formwork after the concrete has been placed to that section.

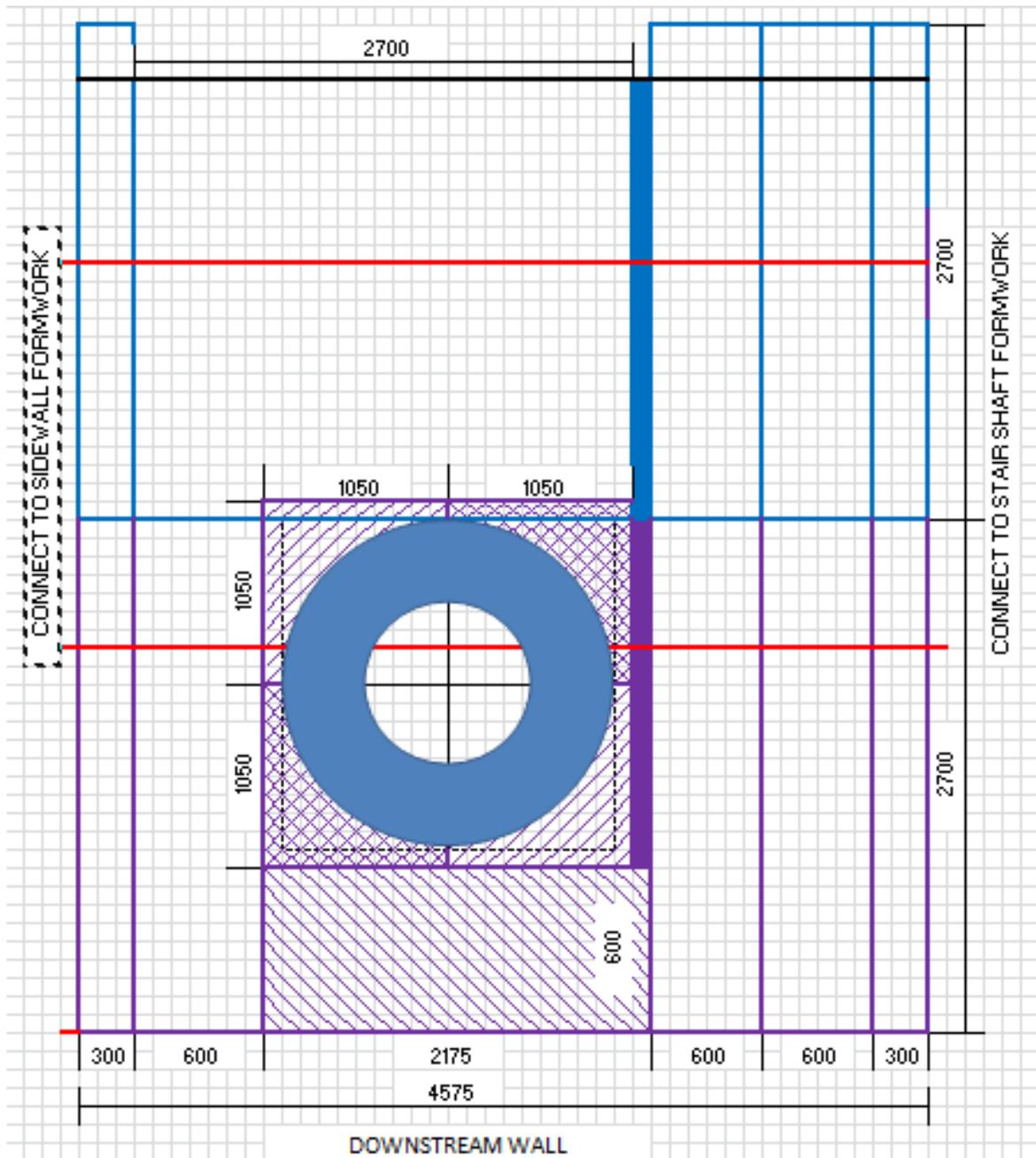


Figure 6: Proposed downstream wall panel layout

Type I (2 off) - Figure 5 & Figure 7 (Downstream face of Valve Chamber) (Yellow)

The installed pipe restricts the outside support to the vertical single side formwork. The formwork joins the side wall panel Type J and the stairwell shaft panel Type N. The intended method for formwork is shown in figure 7.

The hatched areas will require special formwork and the solid areas represent infills. The rest of the formwork consists of an internal corner and standard big panel sizes.

The intention is to keep the bottom 2.7m high formwork in place, except for the two special panels on top of the pipe. The next 2.4 / 2.7m panel lift will be placed on top of the bottom 2.7m high formwork after the concrete has been placed to that section.

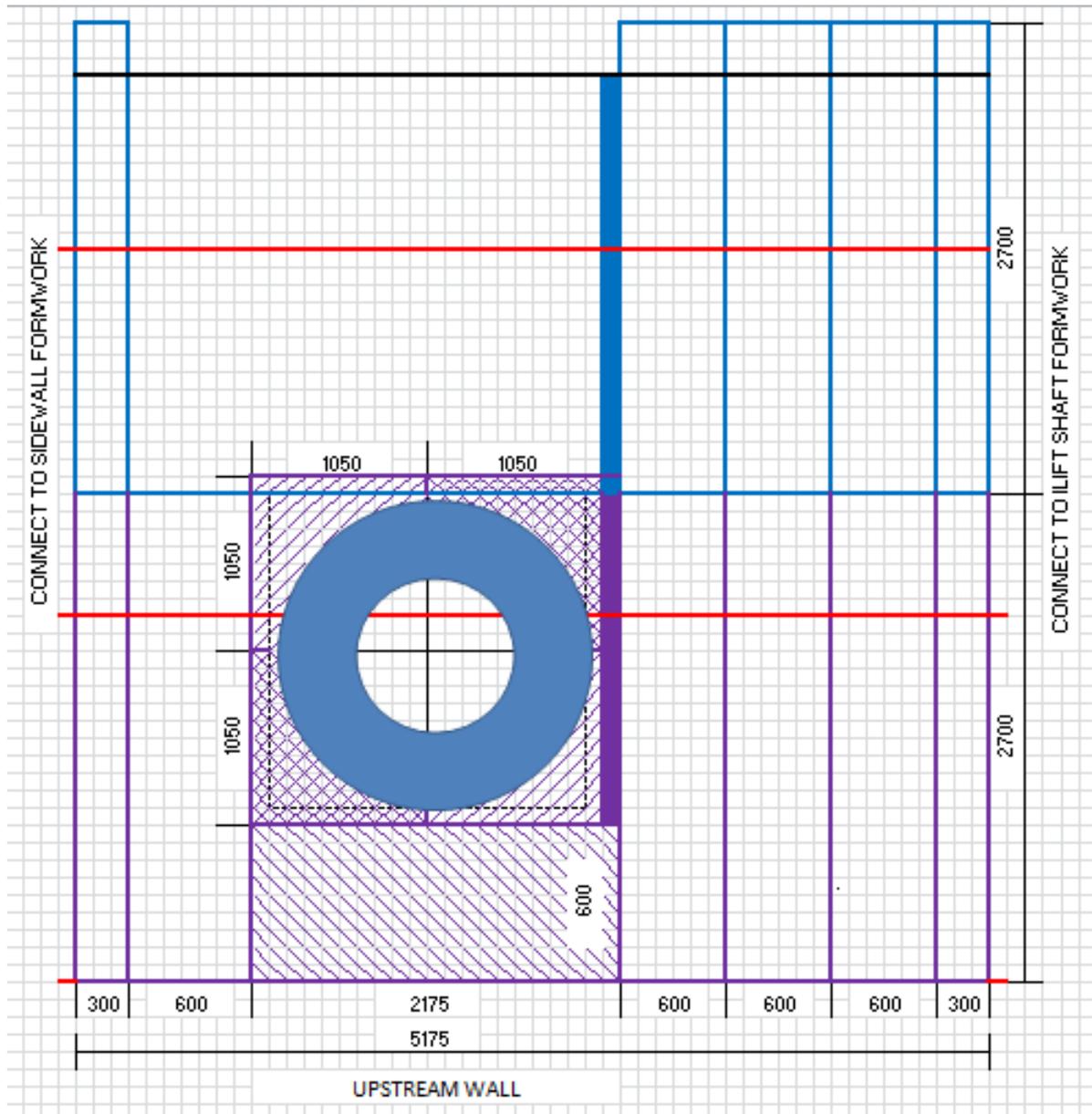


Figure 7: Proposed upstream wall panel layout

Type J (2 off) – Figure 5 & Figure 8 (Side wall face of Valve Chamber) (Green)

The installed pipe restricts the outside support to the vertical single side formwork. The formwork joins the Upstream face panel Type H and Downstream face panel Type I. The intended method for formwork is shown in figure 8.

The solid areas represent infills. The rest of the formwork consists of an internal corner and standard big panel sizes.

The intention is to keep the bottom 2.7m high formwork in place, except for the two special panels on top of the pipe. The next 2.4 / 2.7m panel lift will be placed on top of the bottom 2.7m high formwork after the concrete has been placed to that section.

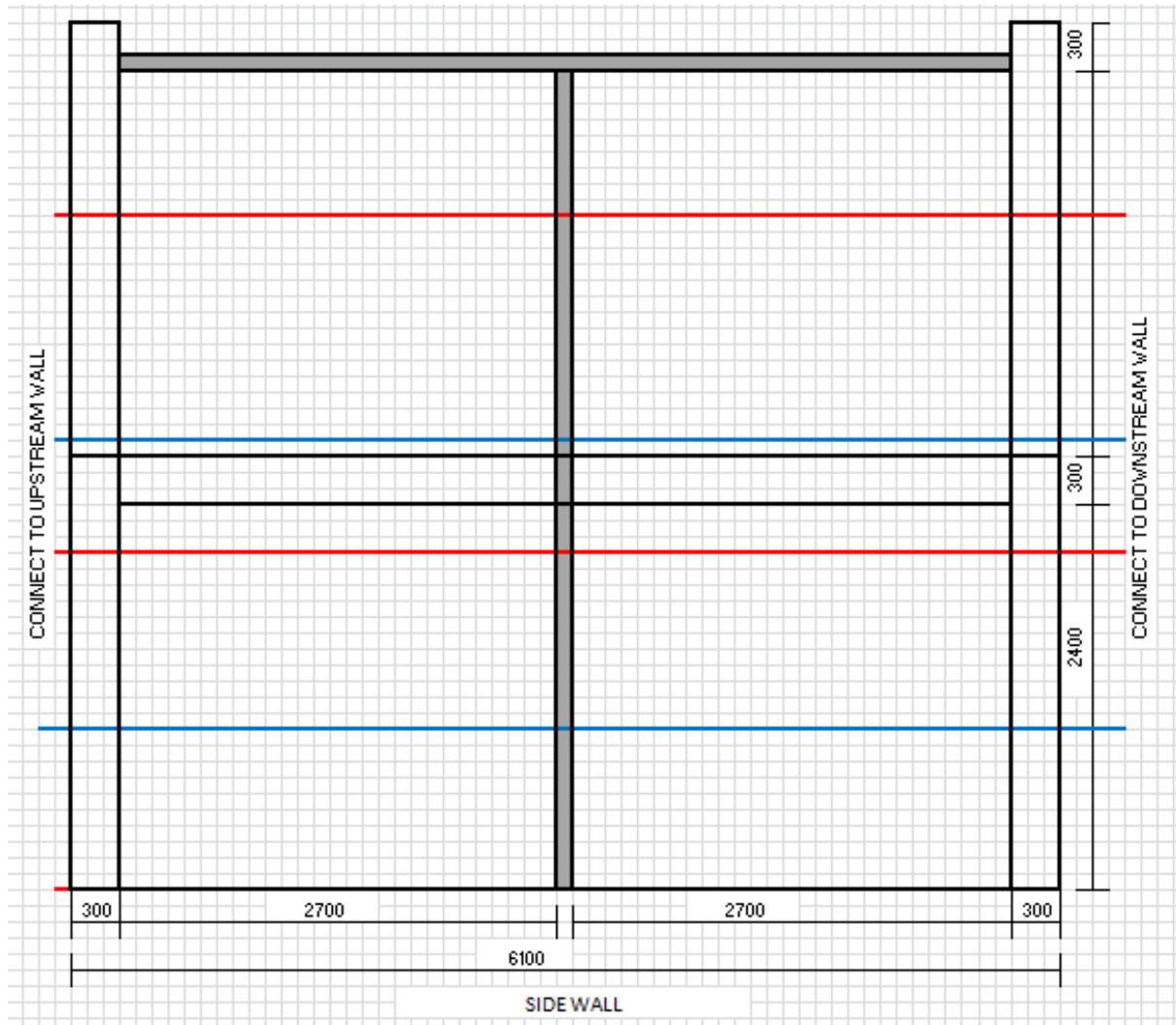


Figure 8: Proposed side wall panel layout.

Type K (4 off) – Figure 5 & Figure 9 (Roof support and decking for Valve chamber)

The installed pipe restricts the position of the decking supports. It is also a requirement that the roof support be extended to accommodate the formwork for the service well wall. This should also include all scaffolding in terms of access needed.

It is the intention to cast the concrete for a height of 1.1 m above the soffit level. It is important to note that the decking will be extended between the lift shaft and the stairwell shaft as shown in Figure 9.

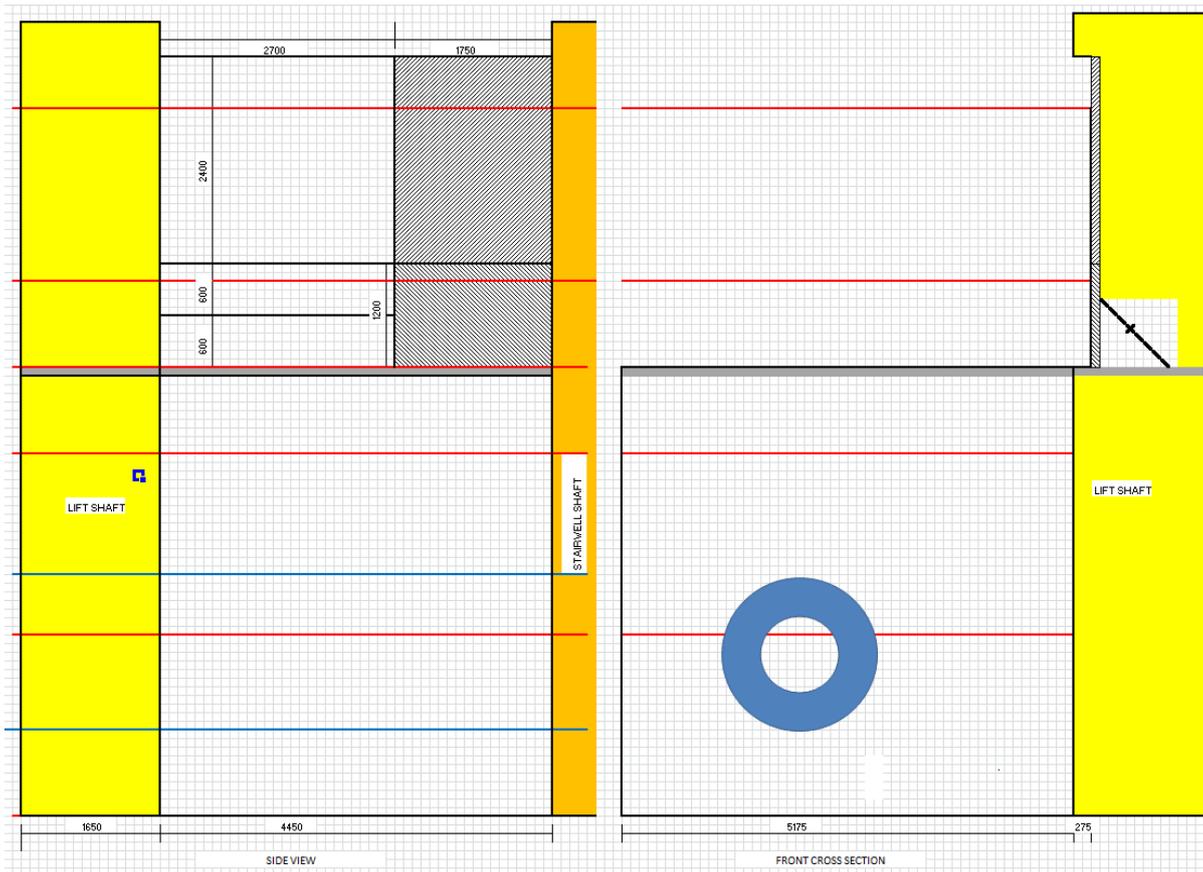


Figure 9 : Proposed Roof and wall panel layout

PS 2.2.3. SHAFT SYSTEM/S (Temporary works)

Lift Shaft (TYPE M) , Staircase Shaft (Type N), and Service shaft (Type L) - (Refer Drawing CWD 4053, 4059, 4056, 4058, 4044, & 4061)- 1 off each - Figure 5

The system/s to be used must accommodate the different concrete pour lift and build in parts.

Although all sides of the lift shaft will not receive concrete all the time it is a requirement that rectangular shuttering will be required. The system must be of such a nature that it can enable rapid striking of the formwork and lifting of the complete shaft formwork in one piece by crane. The section will be used from RL 86.95 to RL 124.75.

This system will be supported by a single side climbing platform with an access manhole, ladder and hanging platform to the previous lift. The platform and hanging platform must be able to be lifted as a unit by crane to the next position.

The system will be supported on a climbing platform. This platform shall be off the "Klik-Klak" type and be supported on folding bearing brackets. The position of the platform must take the changing profile of the wall into consideration. The working platform shall be lifted with the "parked" shaft form work by crane to the next folding bearing bracket position.

A trailing platform will be required to retrieve the special recess formwork for reuse. It can be either a hanging platform or separate work platform.

It is envisaged that the recesses will be formed with special formwork that bolt onto the shaft formwork at the required height.

PS2.3 IVRCC

PS 2.3.1. IVRCC GENERAL INFORMATION/ REQUIREMENTS

- The section must consist of standard off the shelf formwork items and the number of items must be kept to the minimum e.g., big panels instead of made up of small size panels.
- The standard width of the section will preferably be a minimum of 2.7 m wide.
- The formwork must be easy to erect, to join and adjustable in height as well as verticality.
- The formwork must be able to tilt backwards in order to install climbing cone/bracket.
- The formwork must be supported on two support brackets with a hanging platform with railings and flooring with stiffeners as required for retrieving climbing cone/bracket and making concrete repairs as required.
- The formwork section must be able to be lifted as a whole by crane and lifting hooks must be provided (approved and certified by DOL).
- The formwork must be able to join effectively and efficiently on all corners.
- The concrete to be used for the construction of the cofferdam is 20 MPa over a period of 90 days.

PS 2.3.2. IVRCC UPSTREAM FORMWORK (Refer Drawing CWD 0052, 2233, 2255) – TYPE O (142 off)

One sided climbing formwork to accommodate two pours of 2,4 m in height is required.

The formwork section must have a top access platform with railings and flooring.

It must be noted that special detail to the suspension points is required as the RCC is a low cementitious concrete with a slow rate of strength development. If the suspension point is of concern a secondary suspension A-frame with jacks can be considered to support the leading A-frame and provide a bridge effect to previous suspension point as indicated in red in figure 10. The suspension platform will follow on secondary suspension A-frame.

A typical formwork section is indicated in figure 10.

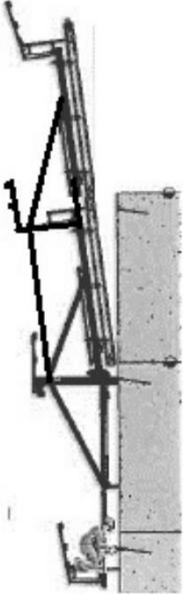
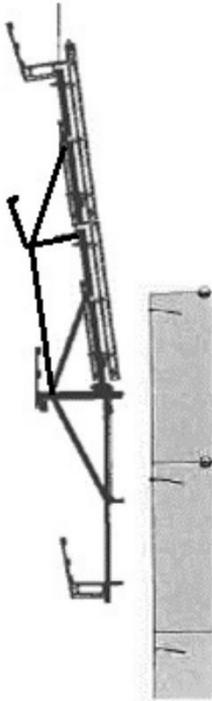
		
<p>Striking: The Formwork section is tilted backward and the suspension points for the next casting lift are prepared.</p>	<p>Shifting: The entire scaffold unit together with all its platforms is lifted in one single crane cycle and suspended from the suspension points</p>	<p>Formwork erection: The formwork section is positioned and plumbed with adjusting devices ready for next pours.</p>

Figure10: Typical formwork section

PS 2.3.3. IVRCC DOWNSTREAM FORMWORK (Refer Drawing CWD 0052, 2233, 2255) – TYPE P (204 off)

One sided formwork to accommodate a 1.2m pour height is required. The formwork will rest on the previous lift with adjustments for vertical support and adjustment on the outside and adhere to the following standards:

- Supporting stays and brackets to support 4 x 1.2m lifts needs to be designed and supplied.
- This section will be easily aligned and connected / disconnected from the adjoining sections.

There are no specific requirements for the outside support system. Preference will be given to a system that contain as much as possible standard off the shelf items if at all possible. Refer to figure 11.

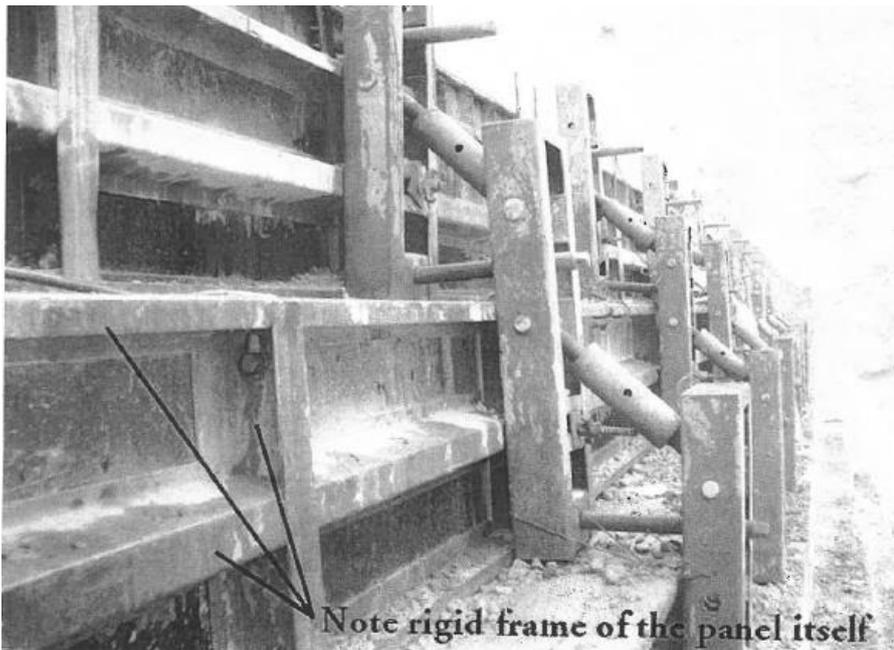


Figure 11: Possible downstream formwork layout

PS 2.3.4. IVRCC COFFER DAM AND APPROACH CHANNEL TEMPORARY WORKS (Refer Drawing CWD 1001 – 1007, 1301 - 1305) – TYPE Q

For the coffer dam, temporary works will be needed. The formwork will be internal and external corner shutter panels, and may be special shutters which is not covered in section PS2.3 & PS2.4. The scaffolding will be for access. Then there might be a need for falsework around the 1800mm NB pipes.

The special formwork should accommodate a 1.2m pour height. The formwork proposed must consist of sections and adhere to the following standards:

Preference will be given to a system that contain as much as possible standard of the shelf items if at all possible. Refer to figure 12..

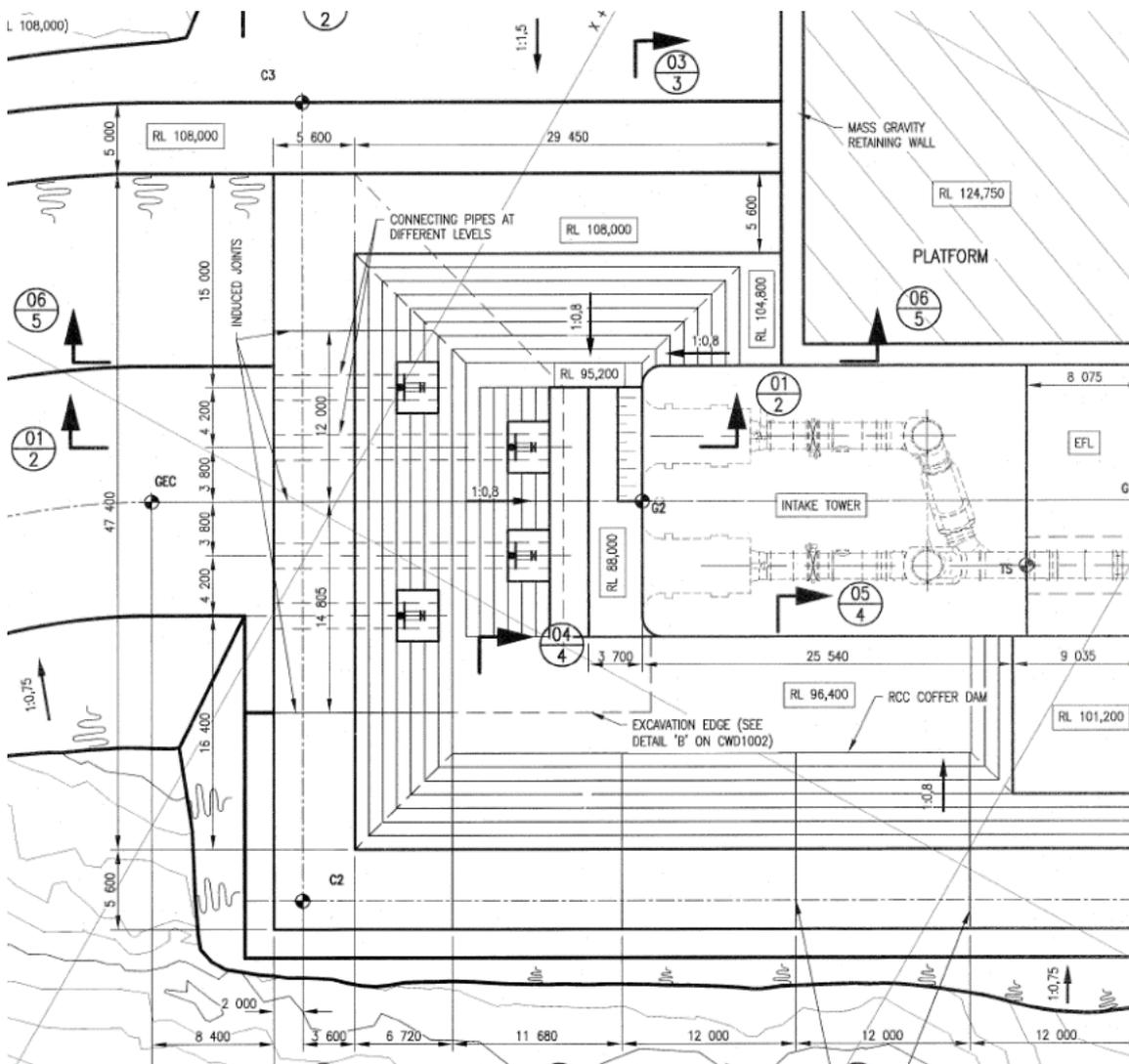


Figure 12: Cofferdam layout plan view

PS 3. SITE LOCATION AND ACCESS

The dam site is situated on the Olifants River, in the Western Cape, approximately 2 km South- West of Clanwilliam town in the Western Cape province.

The site is immediately next to the N7 and accessed through a controlled gate. The gravel site roads will be regularly maintained but could get challenging under abnormal rainfall conditions.

PS 4. WORKING TIMES

4.1 Deliveries may be made during working hours on weekdays:

October – March (Summer time)

- Monday to Thursdays: 06:30 am – 16:15, and
- Friday's : 06:30 – 15:00

April – September (Winter time)

- Monday to Thursday: 7:00 to 16:45, and
- Friday 7:00 to 15:30

But not on the following days or periods:

- (i) Fridays 15:00 to Mondays 07h00;
- (ii) All public holidays and Sundays;
- (iii) Builders holidays: The period 11 December to 9 January (roughly); &
- (iv) The last Friday of the month.

Unless otherwise agreed.

- 4.2 All deliveries will be done through a duplicate form with each item and quantity listed. This form will be signed by appointed responsible persons on behalf of the Contractor and the Supplier. These signed delivery forms must accompany the payment certificate to enable payment. These forms will be used as proof for any possible disputes regarding quantities received or collected.
- 4.3 The supplier shall nominate a contact person with whom the Department will arrange and schedule deliveries. Orders for material will be placed for formwork according to the time span as required by the supplier. Failure to deliver formwork within the time frame could result in the imposition of the penalty prescribed in the General Conditions of Tender Contract and Order.

PS 5. PROGRAMMING REQUIREMENTS

Delivery will be for a period of 55 months. Delivery of formwork will commence by placement of an official order for a specific item on the Bill of Quantities as required.

Successful bidder to be provided with an updated programme.

PS 6. CONTRACTORS MATTERS

The Site and all services are under the control of the Employer and therefore the Employer expects the Contractor to liaise regularly with the Employer's Agent in order to ensure smooth execution and integration of activities with the Employer.

Non-performance of the Employer shall not relieve the Contractor of any of his obligations under the Contract.

It is a requirement of this contract that final designs must be approved before commencement of manufacturing of materials.

PS 7 LOCAL SOCIO-ECONOMIC DEVELOPMENT PARTICIPATION OBJECTIVES

The Department of Water and Sanitation (DWS, also referred to as the "Employer") is committed to transformation within the construction industry and water sector through the optimisation of socio-economic benefits within its sphere of business influence in terms of the Broad-Based Black Economic Empowerment Act, (Act No. 53 of 2003). The general principles, upon which the implementation of the Olifants-Doorn River Water Resources Project (ODRWRP) is based, are:

Contribute to local and regional economic development by optimising the use of locally available skills, materials and resources - Local Socio-Economic Participation and Development (LSEPD).

Promote transformation, technology and skills transfer within the infrastructure development industry through employment creation, preferential procurement, enterprise development, training and skills development objectives - Socio-Economic Empowerment (SEE).

Ensure the project is implemented in a socially responsible and sustainable manner, and

Ensure economic access for Black people living in rural areas by incorporating them into the mainstream economy.

The Contractor must adhere to the minimum requirements and to report monthly on the implementation and compliance of the performance monitoring criteria of this specification (CWD68). The Employer will audit the Contractor's compliance to this specification and notify the Employer's Agent to direct the Contractor on any non-compliance. (Where applicable).

The cost for all personnel recruitment/administration and training in respect to compliance of this specification shall form part of the SAFCEC rates.

PS 8 QUANTITIES

The amount of formwork required will be determined by the works programme. Although every effort was made to ensure the correct amount of formwork, the quantities cannot be guaranteed and could change. The Bill of Quantities must be seen as a term contract from which specific items will be procured by means of an official order as required for the project. In no ways will any claim be considered or entertained due to deviation of the Bill of Quantities.

PS 9. PAYMENT

Payments will be made monthly on receipt of specified tax invoices.

Payment will not be made for consignment unless supported by delivery notes duly signed by the official checking the delivery.

Escalation will only be paid if stipulated in the Special Conditions of Contract.

Payment will be done within 30 days of receipt of original invoice by depositing the payment directly into the bank account of the successful Tenderer. No cash payment or cheque payment will be done.

Standing time will be for the contractors cost.

PS 10. SAFETY, HEALTH AND ENVIRONMENTAL

The successful bidder will be required to adhere to the site specific Health, Safety and Environmental requirements while on site.

The delivery vehicles will be operated and maintained according to Construction Regulations 23.

Designs should take into account all OHS requirements in terms of the Construction Regulations.

Nothing specified in this document shall relieve the Contractor of any obligations or responsibilities with regard to health & safety, and environmental responsibilities.

C3.3. TENDER DRAWINGS

The drawings issued as part of the bid documents must be regarded as provisional and preliminary for the bidder's benefit to generally assess the scope of work. The work shall be carried out in accordance with the latest available revision of the drawings approved for construction (AFC).

The tender drawings listed below are for **tender purposes only**. All work shall be done in accordance to the final approved construction drawings, that will be issued after signing of the contract.

The list of drawings to this document is as follows:

CWD 0052	Sheet	1 of 1	Final layout of Raised Dam Wall
CWD 2233	Sheet	3 of 6	Right Bank NOC Section 02-02
CWD4404	Sheet	2 of 2	Precast Stairs Installation
CWD 4054	Sheet	4 of 16	Section 03-03
CWD 4055	Sheet	5 of 16	Section 04-04
CWD 4056	Sheet	6 of 16	Section 05-05
CWD 4057	Sheet	7 of 16	Section 06-06
CWD 4058	Sheet	8 of 16	Section 07-07
CWD 4059	Sheet	9 of 16	Section 08-08
CWD 4061	Sheet	11 of 16	Section 10-10
CWD 4063	Sheet	13 of 16	Wet Well Details
CWD 4064	Sheet	14 of 16	Intake Tower
CWD 4065	Sheet	15 of 16	Isometric View

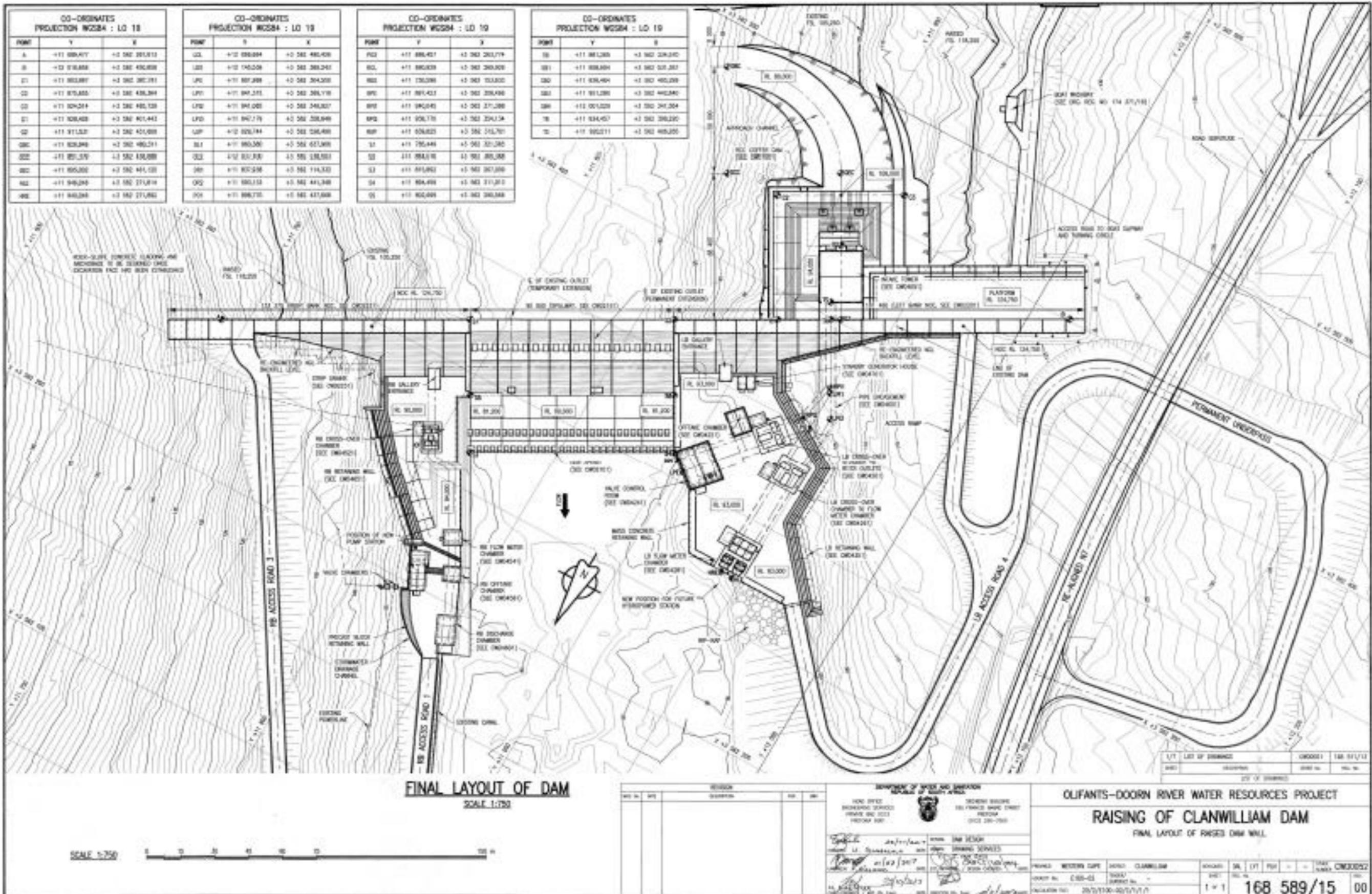
More drawings will be supplied with the compulsory site briefing session.

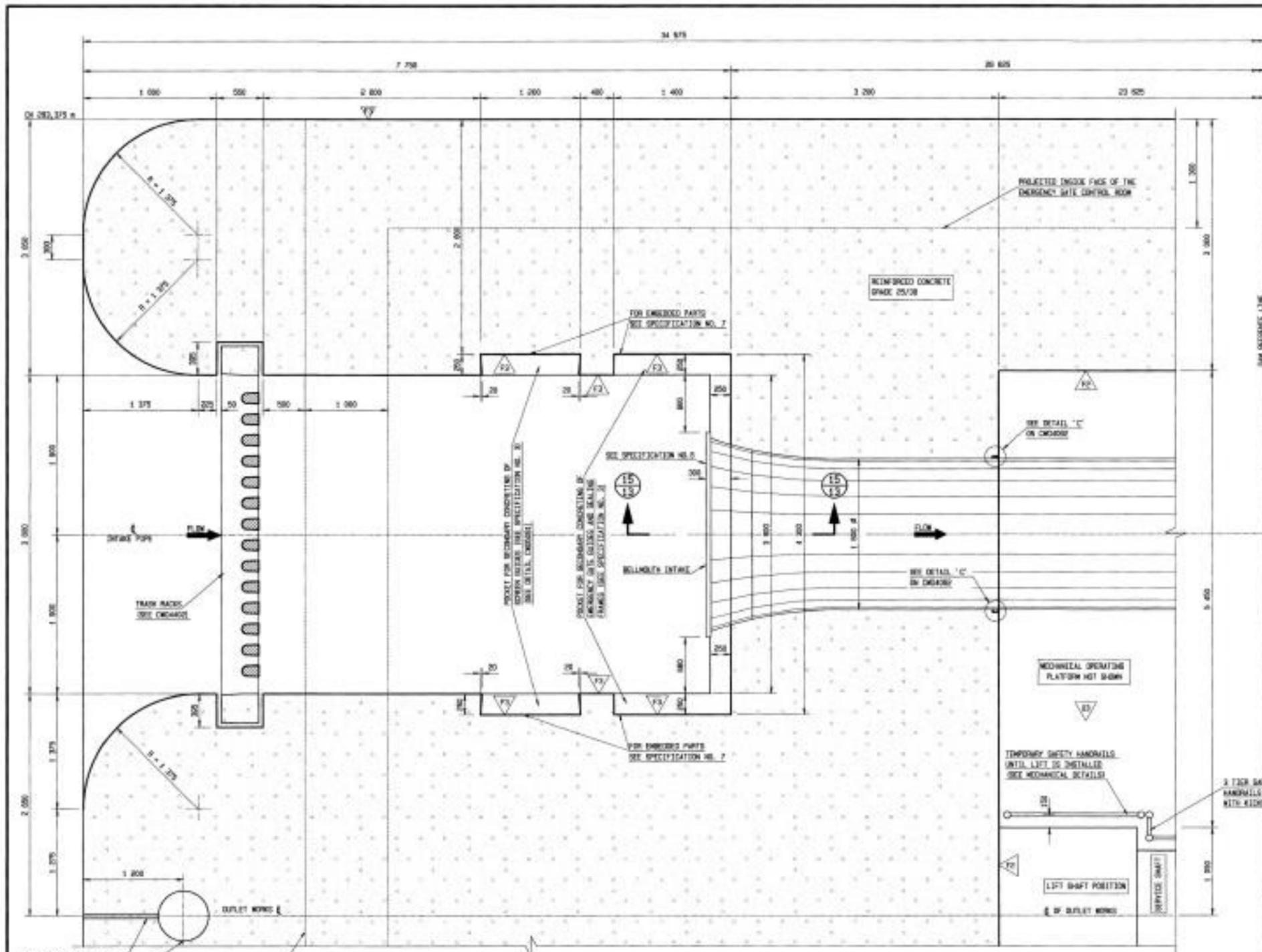
Note: (Will be provided in electronic format.)

BIDDERS MUST INITIAL ALL PAGES UNDER SECTION C3 SPECIFICATIONS AND SIGN THE DECLARATION BELOW.

Therewith I, _____ (Bidder's Name) declare that I have read, completed and understood the above specifications.

BIDDER'S SIGNATURE



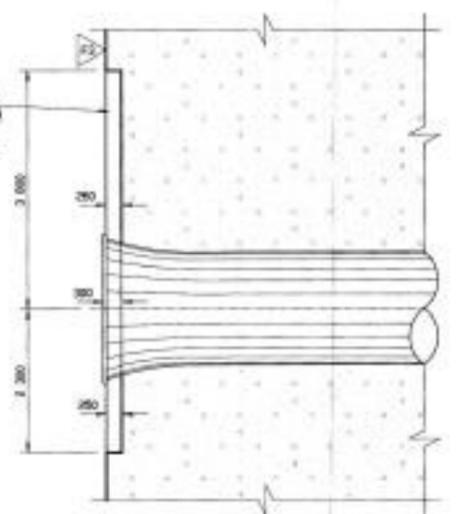


SECTION

SECTION NUMBER: 15-15
SHEET NUMBER: 3

- SPECIFICATIONS:**
1. CONCRETE GRADE 25/30.
 2. THE CONTRACTOR IS TO MAKE PROVISION FOR A PHASED INSTALLATION OF THE GUSSET AND SEALING FRAMES. REFER TO MECHANICAL SPECIFICATIONS.
 3. SECONDARY CONCRETE FOR CONCRETING IN GUSSET AND FRAMES TO BE SPECIALLY DESIGNED TO RESIST SPALLING, BY USING SLAKE POWDER OR FOGGAL. ALTERNATIVELY USING REINFORCING BY FOGGAL. LABORATORY TEST RESULTS TO BE SUBMITTED FOR APPROVAL AT LEAST 6 MONTHS BEFORE PLANNED USE. GRADE 30/15 CONCRETE TO BE USED.
 4. FOR REINFORCEMENT OF SECONDARY CONCRETE SEE DRAWING.
 5. ALL EXPOSED CONCRETE EDGES TO HAVE A 25 MM CHAMFER, UNLESS OTHERWISE SPECIFIED.
 6. FOR TOLERANCE ON BELLMOUTH PROTECTION SEE MECHANICAL INSTALLATION DRAWING.
 7. FOR NUMBER AND POSITIONS OF PRIMARY BUILT-IN PLATES, SEE MECHANICAL DETAILS.
 8. THE VERTICAL DISTANCE BETWEEN THE 50 MM Ø HORN PROUD DALET PIPES FOR THE WATER LEVEL RECORDER IS 1 500 MM G/G STARTING FROM RL 80,500.

- SHUTTER FINISHES**
- ALL SHUTTER FINISHES SHALL BE AS FOLLOWS, EXCEPT WHERE OTHERWISE SHOWN:
- CLASSES F2 AND U2
 - TO SURFACES EXPOSED TO VIEW
 - CLASSES F3 AND U3
 - TO SURFACES AGAINST WHICH SHORTELL OR FURTHER CONCRETE WILL BE PLACED.
- OTHER FINISHES DESIGNATED TYPICALLY AS FOLLOWS:
 ▲ CLASS F2 ▲ CLASS U3



SECTION 15-15
SCALE 1:50

1/7	LIST OF DRAWINGS	060001	108 071/13
SHEET	DESCRIPTION	DRAWING NO.	REV. NO.

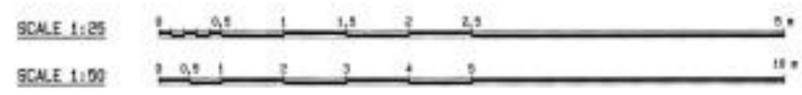
DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

RAISING OF CLANWILLIAM DAM
 INTAKE TOWER
 WET WELL DETAILS

PROJECT: WESTERN CAPE DRAWING: CLANWILLIAM
 LOCALITY: E180-02 SHEET: 13 OF 15
 DRAWING FILE: 2012/E180-02/1/1

DATE: 13/10/15 168 695/15 00

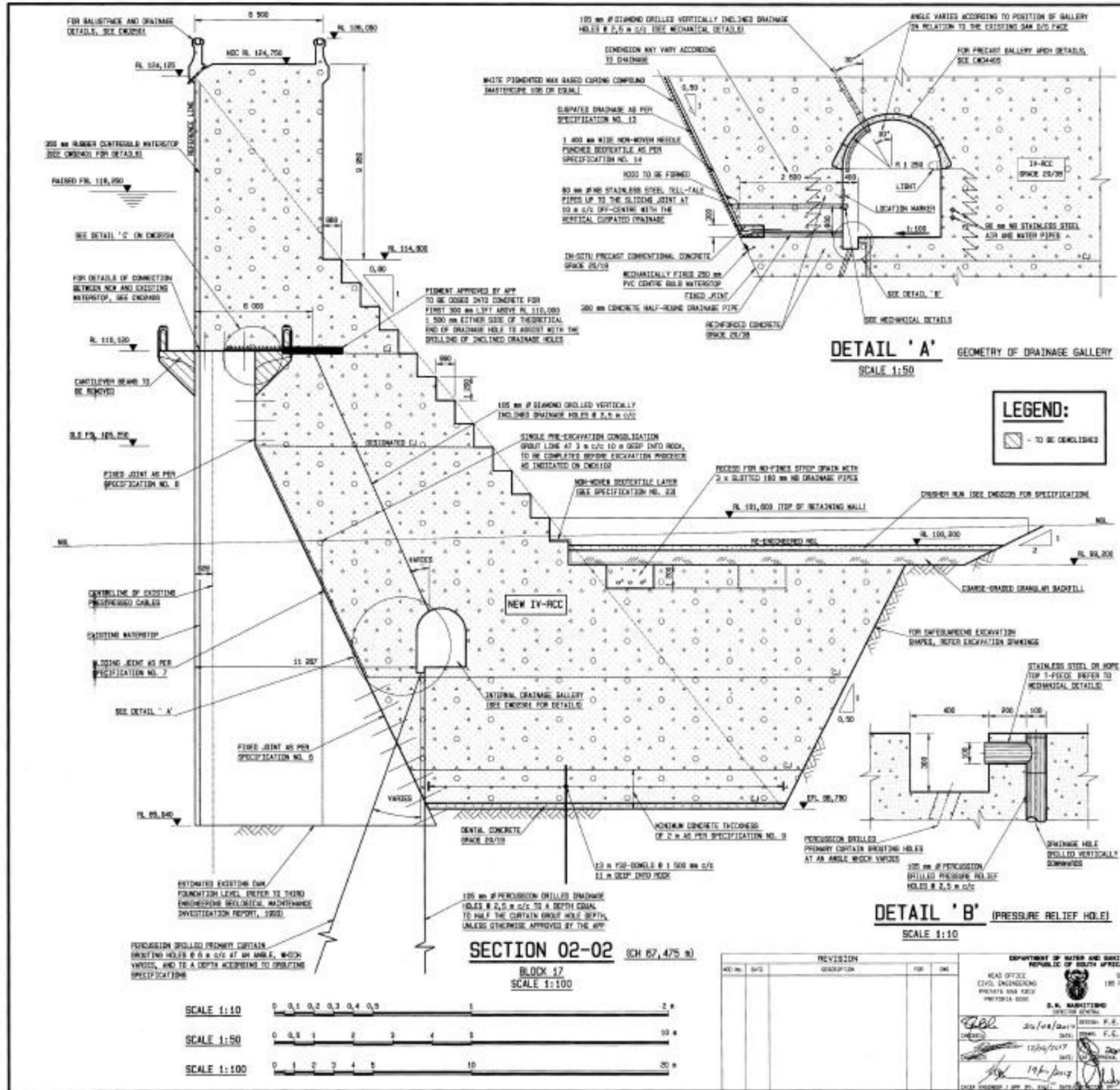
50 mm Ø HORN CLASS F200 SHUT PIPES AT 1 500 G/G
 500 mm Ø HORN CLASS 500 PIPE FOR THE AUTOMATIC WATER LEVEL RECORDER



TYPICAL DETAIL OF LEFT HAND INTAKE
SCALE 1:25

REV. NO.	DATE	DESCRIPTION	BY	CHK

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Date]



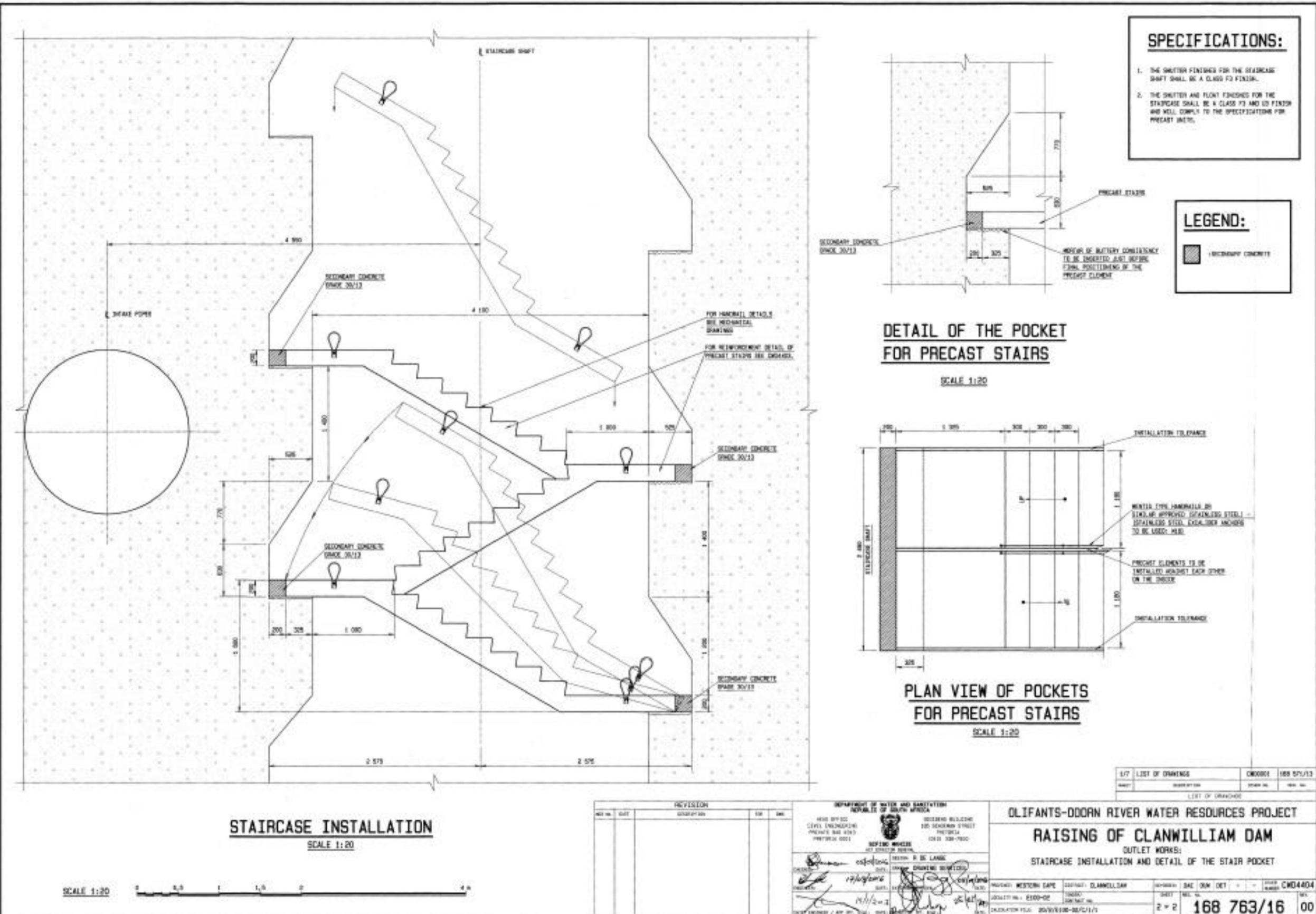
SPECIFICATIONS:

- A DETAIL METHO STATEMENT TO BE SUBMITTED FOR THE DEMOLITION AND DISPOSAL OF FLOOR AND BRIDGE DECK, BALUSTRADES AND CHUTELEVERS AS WELL AS THE TEMPORARY STORAGE OF THE PORTLAND CEMENT BAGS AND MECHANICAL EQUIPMENT IN ACCORDANCE WITH ALLOWABLE VIBRATION AND ENVIRONMENTAL REQUIREMENTS.
 - EXCAVATION OF THE TOE OF THE SPILLWAY TO BE DONE DURING LOW DAM WATER LEVELS IN ALTERNATING BLOCKS ACCORDING TO THE EXISTING CONSTRUCTION JOINTS NOT WIDER THAN 1.4 m AND ONLY ONE BLOCK AT A TIME.
 - GENERAL CONCRETE GRADE 20/10 ON TOP OF THE ESTIMATED FOUNDATION TO BE PLACED LEVEL UP TO A REDUCED LEVEL SPECIFIED BY THE DESIGN ENGINEER.
 - MASS CONCRETE GRADE 20/10 WITH A MINIMUM THICKNESS NOT LESS THAN 2 m AS SPECIFIED ON DRAWING.
 - REINFORCING: 14-RCC GRADE 20/10 CONCRETE, IF NOT SPECIFIED OTHERWISE.
 - GALLERY ROOF: REINFORCED CONCRETE GRADE 20/10.
 - BLOCKING JOINTS AS SPECIFIED ON DRAWING:
 - THE APP TO SPECIFY LEVELS OF JOINTS ON SITE.
 - LOOSE MATERIAL ON DOWNSTREAM FACE TO BE REMOVED BY SANDBLASTING OR SIMILAR METHOD.
 - AN APPROVED WHITE PIGMENTED MAF BASED CURING COMPOUND TO BE USED FOR WHITE-WASHING OF DOWNSTREAM FACE FOLLOWING REMOVAL OF SURFACE LAYER.
 - DRAINAGE OF SLIDING JOINT AS SPECIFIED IN DETAIL 'A'.
 - WHERE THE SLIDING JOINT IS LESS THAN 2 m IN HEIGHT, THE JOINT IS TO BE FIXED, OR AS INSTRUCTED BY THE APP.
 - A 200 mm PVC CENTRE BARS WATERSTOP SHOULD BE MECHANICALLY FIXED BENEATH SLIDING JOINT, AS SHOWN IN DETAIL 'A'.
 - FIXED JOINTS AS SPECIFIED ON DRAWING:
 - THE APP TO SPECIFY LEVELS OF JOINTS ON SITE.
 - CONCRETE AT DOWNSTREAM FACE TO BE REMOVED BY JET BLASTING OR SIMILAR METHOD REFER TO SPECIFICATION NO. 25 ON DRAWINGS.
 - STAINLESS STEEL BOWLS 1, 2 m LONG TO BE ANCHORED 600 mm DEEP INTO DOWNSTREAM FACE @ 1 m c/c.
 - A MINIMUM CONCRETE THICKNESS OF 2 m IS REQUIRED, FOR NEW DAM FOOTPRINT, BEFORE GROUTING MAY COMMENCE.
 - PRESSURE GROUTING TO BE DONE AS INDICATED AND SPECIFIED ON GROUTING DRAWINGS.
 - POSITION OF 100 COWLS AS PER THE BROWTHOLE LAYOUT (DWG101).
 - EXISTING DRAINAGE HOLES IN DOWNSTREAM TOE: HOLES TO BE REPIPPLED, CLEANED AND CLOSED OFF BEFORE PLACING OF CONCRETE. 100 COWLS TO BE FACTORY PAINTED 5 000 mm ON EACH SIDE OF THE ROCK/CONCRETE INTERFACE WITH A TWO PART EPOXY PROTECTIVE COATING USING SIGABOND-BAN OR EQUAL. THE COLOUR OF STAINBOND-BAN COATING TO SPECIFICATION OF THE ENGINEER.
 - 400 mm WIDE HOPE CURVED GEOSYNTHETIC GRADH WITH A MINIMUM THICKNESS OF 40 mm POSITIONED DOWNSTREAM OF ALL EXISTING INCLINE JOINTS AS WELL AS IN THE CENTRE OF EACH BLOCK OF THE EXISTING DAM WALL ONLY WHERE A SLIDING JOINT WILL BE FORMED.
 - PROTECTION OF CURVED DRAINAGE: NON-WOVEN PROTECTIVE LAYER (SEE SPECIFICATION NO. 22). SEE DRAWING FOR DETAILS.
 - A METHO STATEMENT IS REQUIRED FOR BOREHOLES TO BE DRILLED EITHER AT THE D/S TOE OR AT APPROXIMATELY 5 000 mm D/S OF EACH BLOCK TO CONFIRM THE EPL OF EXISTING DAM. CORE SAMPLES TO BE DESCRIBED BY AN ENGINEERING GEOLOGIST AND SENT TO THE UNIVERSITY OF CAPE TOWN (UCT) FOR ALKALI AGGREGATE REACTION (AAR) TESTING.
 - THE ANGLE OF INCLINATION TO WHICH THE VERTICAL DRAINAGE HOLES ARE DRILLED WILL VARY WITH CHINAISE AS WELL AS THE ANGLE AT WHICH THE HOLE IS DRILLED THROUGH THE TOP OF THE GALLERY.
 - A METHO STATEMENT IS REQUIRED FOR ALL VERTICALLY INCLINED DRAINAGE HOLES TO BE DRILLED IN SUCH A MANNER THAT THE END POINT IS AT RL 116,520 AND OFFSET 8 000 mm FROM THE UPSTREAM REFERENCE LINE.
 - FOUNDATION TO BE INSPECTED AND APPROVED BY THE ENGINEERING GEOLOGIST AND THE APP PRIOR TO ANY PLACEMENT OF CONCRETE.
 - FOR WATERSTOP, DRINK ENCLINER AND SARTHING SPECIFICATIONS AND LAYOUT DETAILS, SEE DRAWING.
 - THE EXPOSED SURFACE OF THE DOWNSTREAM STEPS OF THE MOC SHALL BE FINISHED TO THE FOLLOWING TOLERANCE (mm):

(i) FLATNESS OF PLANE SURFACE	15
(ii) ABRUPT CHANGES IN CONTINUOUS SURFACE	2
- NOTE: ANY DEVIATION FROM FLATNESS OF A PLANE SURFACE OR ANY ABRUPT CHANGE IN CONTINUOUS SURFACE WILL BE MEASURED AS THE MAXIMUM DEVIATION OF THE SURFACE FROM ANY STRAIGHT LINE OF LENGTH 3 m JOINING TWO POINTS ON THE SURFACE.
- SEE SPECIFICATION NO. 5 ON DRAWING, FOR REQUIRED SHUTTER FINISHES.
 - SEE DRAWING, FOR CURVED DRAINAGE DETAILS AND LAYOUT.
 - MOC NO-TINES TOE GRADH TO BE COVERED WITH NON-WOVEN NEEDLE PUNCHED GEOTEXTILE 575 g/m² OR EQUAL: 7 000 mm WIDE.
 - COPPER DAM HEIGHT TO BE BASED ON THE 1:100 YEAR FLOOD OF 3 980 m³/s WITH 4 OF THE 13 GATES CLOSED.

1/7	LIST OF DRAWINGS	DWG006	108 071/13
DATE	DESCRIPTION	ISSUE NO.	REV. NO.

DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA HEAD OFFICE CIVIL ENGINEERING PRIVATE BAG 3027 PRETORIA 000		SECTION BUILDING 100 FRANCIS BAARD STREET PRETORIA 010 308-7500	
S. N. MANTSHING DIRECTOR GENERAL		DESIGN: F. E. HEDDER DRAWN: F. E. HEDDER	
PROJECT: WESTERN CAPE CLIENT: CLANWILLIAM CONTRACT NO.: E108-08 CONTRACT NO.:		DRAWING NO.: 168 673/15 SHEET NO.: 3 OF 6 DATE: 2010/01/01	



SPECIFICATIONS:

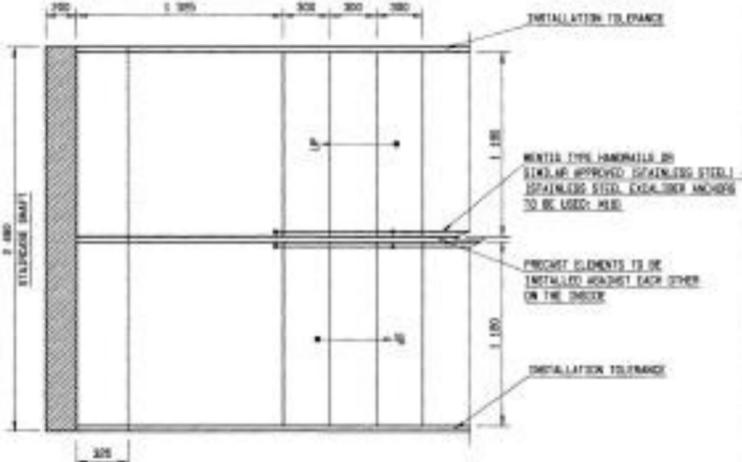
1. THE SHUTTER FINISHES FOR THE STAIRCASE SHAFT SHALL BE A CLASS F3 FINISH.
2. THE SHUTTER AND FLOUT FINISHES FOR THE STAIRCASE SHALL BE A CLASS F3 AND U3 FINISH AND WILL COMPLY TO THE SPECIFICATIONS FOR PRECAST UNITS.

LEGEND:

■ SECONDARY CONCRETE

DETAIL OF THE POCKET FOR PRECAST STAIRS

SCALE 1:20



PLAN VIEW OF POCKETS FOR PRECAST STAIRS

SCALE 1:20

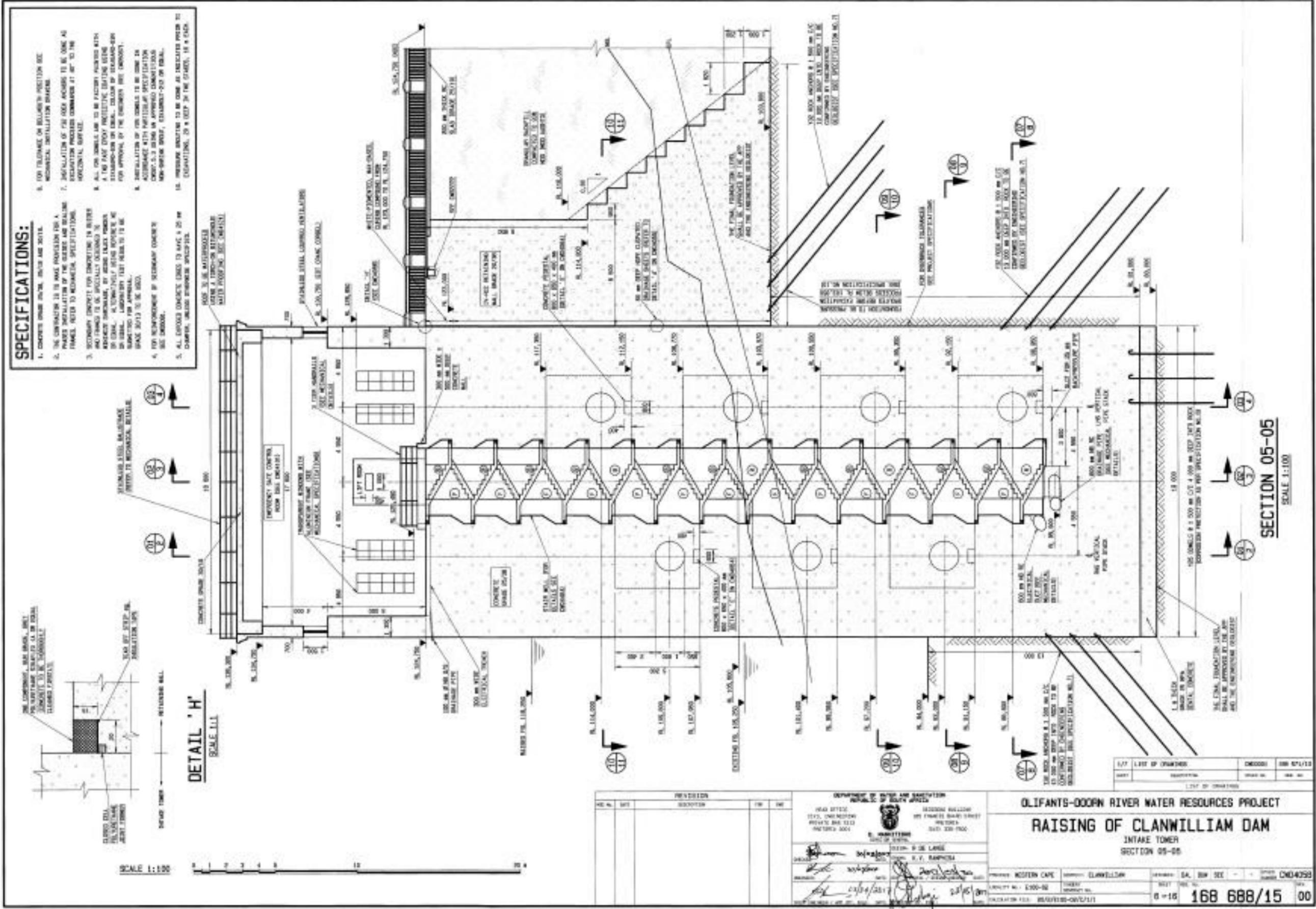
STAIRCASE INSTALLATION

SCALE 1:20



1/7	LIST OF DRAWINGS	CW0001	168 763/13
DATE	ISSUED BY	ISSUED NO.	ISSUED BY

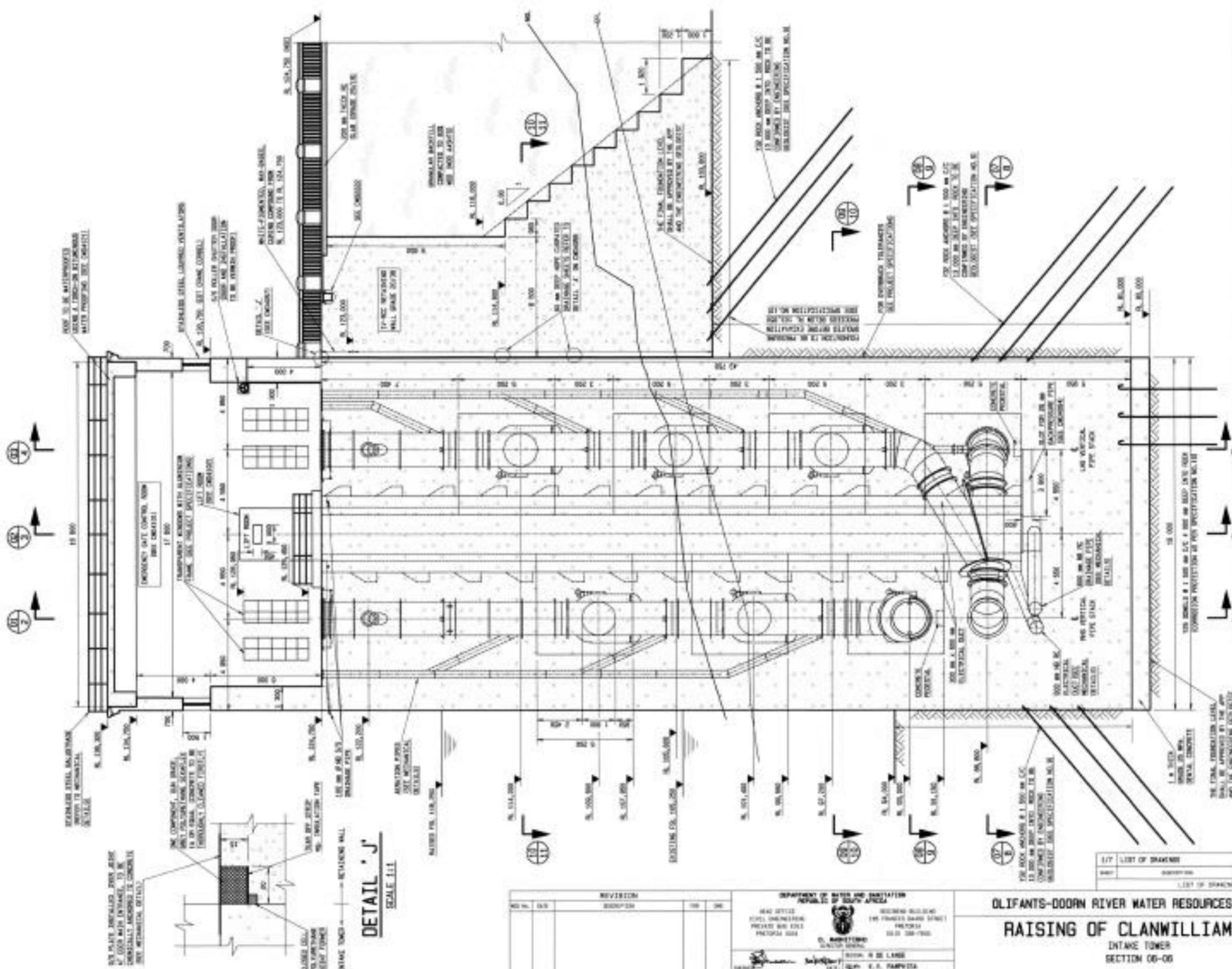
DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA 101 SANDHURST DRIVE SANDHURST 2146 TEL: 011 833 9300		OLIFANTS-ODORN RIVER WATER RESOURCES PROJECT RAISING OF CLANWILLIAM DAM OUTLET WORKS: STAIRCASE INSTALLATION AND DETAIL OF THE STAIR POCKET	
NAME: R. DE LANG DESIGNER: R. DE LANG DATE: 14/12/13	CHECKED: [Signature] DATE: 14/12/13	PROJECT: WESTERN CAPE LOCALITY NO.: E100-02 CALCULATION FILE: 20/01/13-20/01/13	SHEET NO.: 2 OF 2 DRAWING NO.: 168 763/16 REV. NO.: 00



SPECIFICATIONS:

- CONCRETE GRADE 20/25, 20/15 AND 20/10.
- THE CONTRACTOR IS TO MAKE PROVISION FOR A FINISHED INSTALLATION OF THE GATES AND SEALING THINGS, NOT TO WITHSTAND SPECIFICATIONS.
- SECONDARY CONCRETE FOR CONCRETE TO BE USED AND FINISHED TO BE SPECIALLY DESIGNED TO PROVIDE AVERAGE OF DESIGN STRENGTH UNDER STRESS. A FURTHER INVESTIGATION REPORTS BY A QUALIFIED LABORATORY TEST RESULTS TO BE SUBMITTED FOR APPROVAL AT LEAST 8 WEEKS BEFORE PLACING CONCRETE. GRADE 20/15 CONCRETE TO BE USED.
- FOR REINFORCEMENT OF SECONDARY CONCRETE.
 - ALL EXPOSED CONCRETE SURFACES TO HAVE A 10 MM FINISH, UNLESS OTHERWISE SPECIFIED.
 - FOR TOLERANCE ON WITHSTAND PROVISION SEE MECHANICAL INSTALLATION DRAWING.
 - TOP ARMED AND POSITIONED BY PRIMARY BUILT-IN PLATES, SEE MECHANICAL DETAILS.
- LIFT SPECIFICATIONS.
 - LIFT CAPACITY: 300 kg of material.
 - SHOFT SIZE: 2.100 mm DIA x 1.000 mm DEEP.
 - CONCRETE STRENGTH: 4.000 MPa.
 - CONCRETE STRENGTH: 4.000 MPa.
 - CONCRETE STRENGTH: 4.000 MPa.
 - CONCRETE STRENGTH: 4.000 MPa.
- INSTALLATION OF THE ROCK ANCHORS TO BE DONE AS INDICATED PRIOR TO REINFORCEMENT. TO BE DONE AS INDICATED PRIOR TO REINFORCEMENT. TO BE DONE AS INDICATED PRIOR TO REINFORCEMENT. TO BE DONE AS INDICATED PRIOR TO REINFORCEMENT.

SCALE 1:100



DETAIL 'J'
SCALE 1:1

NO.	DATE	REVISION	DESCRIPTION

DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
1001 UNIVERSITY
PRETORIA 001
PROVINCIAL OFFICE
1001 UNIVERSITY
PRETORIA 001

PROJECT NO. 168 689/15

DATE: 25/09/2017

SCALE: 1:100

OLIFANTS-DOORN RIVER WATER RESOURCES PROJECT

RAISING OF CLANWILLIAM DAM

INTAKE TOWER
SECTION 06-06

PROJECT NO. 168 689/15

DATE: 25/09/2017

SCALE: 1:100

168 689/15 00

SECTION 06-06
SCALE 1:100

CO-ORDINATES PROJECTION WGS84 : LD 10		
POINT	Y	X
B1	+11 985,478	+3 582 401,443
B2	+11 921,521	+3 582 401,500
B3	+11 984,457	+3 582 396,890
T0	+11 920,513	+3 582 408,205

SPECIFICATIONS:

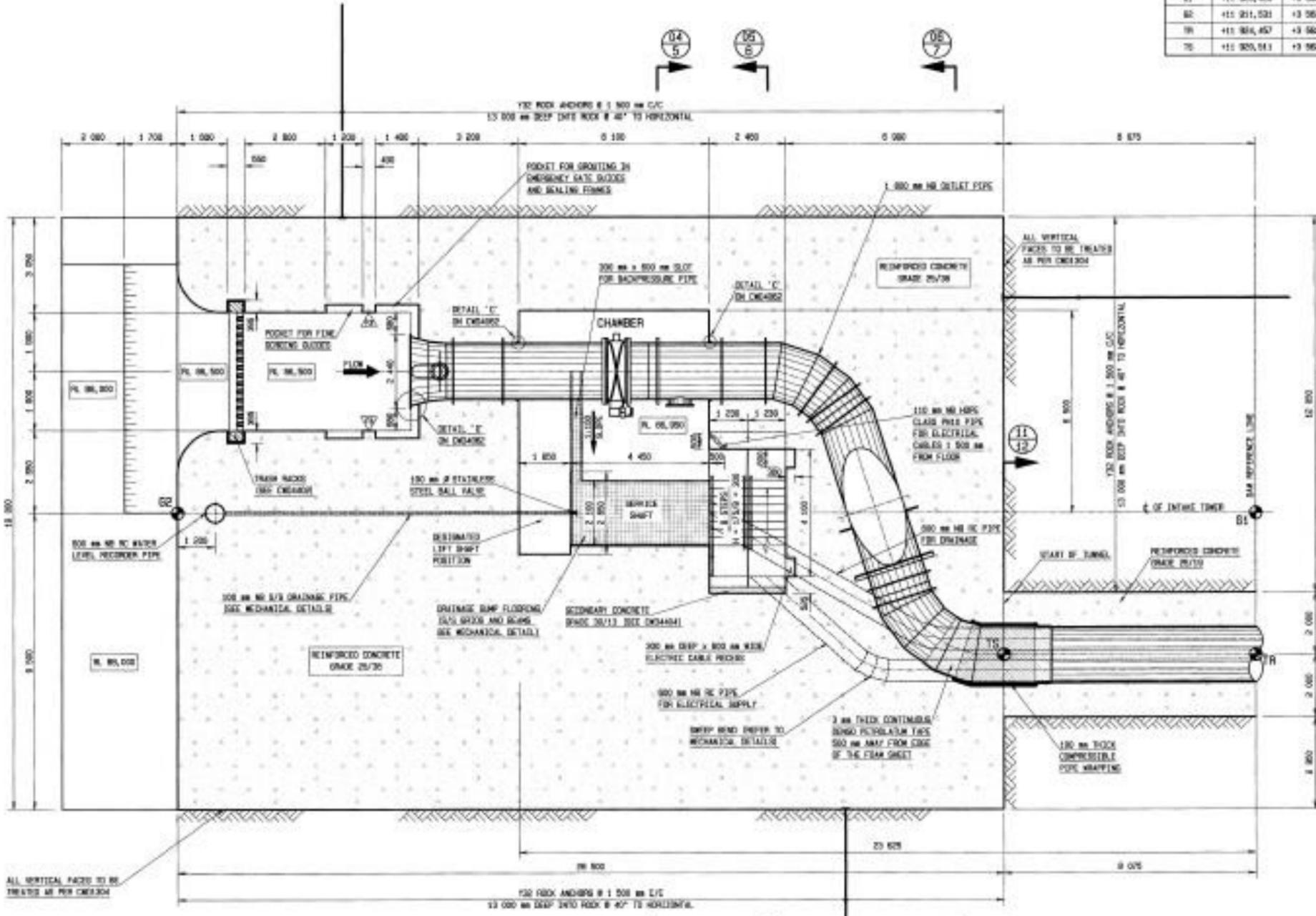
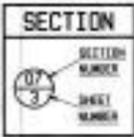
1. 1 000 mm Ø HDG OUTLET PIPES CONTINUOUSLY WELDED.
2. PIPES TO BE TIED DOWN USING 2 x 105-ANDERSON LINES IN LANE WITH PUCKS PLACED @ 2 000 mm C/C, USING AN APPROVED TIE-DOWN SYSTEM I.E. TURN-BUCKLE AND 5/8" CABLE ASSEMBLY IN ACCORDANCE WITH THE ENGINEER'S APPROVAL.
3. AT THE DESIGNATED VERTICAL JOINT, 8 000 mm OFFSET FROM DAM REFERENCE LINE, BOTH THE 1 000 mm HDG STAINLESS STEEL OUTLET PIPES SHALL HAVE A 100 mm THICK COMPRESSIBLE PIPE WRAPPING AROUND THEM FOR 1 000 mm ON BOTH SIDES OF THE JOINT POSITION TO PREVENT SLIP FAILURE OF THE 1 000 mm HDG STAINLESS STEEL PIPES IN THE OCCURRENCE OF AN EARTHQUAKE.
4. THE JOINT WRAPPING SHALL BE DONE AS FOLLOWS:
 - PIPE SURFACE TO BE PRE-TREATED WITH DENSO PRIMER "3" AND WRAPPED WITH DEMOSTEM TAPIC 1 000 mm ANY OF THE UPSTREAM AND DOWNSTREAM SIDE OF THE DESIGNATED JOINT.
 - CLOSED CELL, CROSS-LINKED EXPANDED POLYETHYLENE FOAM SHEETS 15 x 20 mm THICKNESS CONTAINING A FLAME RETARDANT ADDITIVE, SPACING OF 50 mm, IS TO BE WRAPPED AROUND THE PIPES WITH DEMOSTEM TO KEEP IT IN PLACE.
 - EACH SHEET IS TO BE WRAPPED WITH A 3 mm THICK CONTINUOUS DENSO PETROLATUM TAPE 600 mm ANY FROM THE EDGE OF THE SHEETS ONTO THE PIPE, TO ENSURE THE SHEETS REMAIN IN PLACE DURING CONCRETING.
 - A TEST SECTION OF THE SAME DIMENSIONS, TO SCALE 1:1, OUTSIDE OF THE PERMANENT WORK IS TO BE DONE FIRST, WHICH COULD BE DEMOLISHED AND DISPOSED.

SHUTTER FINISHES

- ALL SHUTTER FINISHES SHALL BE AS FOLLOWS, EXCEPT WHERE OTHERWISE SHOWN:
- CLASSES F2 AND U2
 - TO SURFACES EXPOSED TO VIEW
 - CLASSES F3 AND U3
 - TO SURFACES AGAINST WHICH INFILL OR FURTHER CONCRETE WILL BE PLACED.
- OTHER FINISHES INDICATED TYPICALLY AS FOLLOWS:
- △ CLASS F3
 - △△ CLASS U3

NOTES:

1. FOR CONCRETE DETAILS SEE THE PROJECT SPECIFICATIONS.
2. FOR DETAILS OF MECHANICAL ITEMS SEE THE MECHANICAL DRAWINGS.
3. SECONDARY CONCRETE IS NOT SHOWN.
4. REFER TO CHAMBER FOR THE LIST OF APPROPRIATIONS.



SECTION 07-07 [PL. BB, B01]
SCALE 1:75



REVISION				
NO.	DATE	DESCRIPTION	BY	APP.

DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
CIVIL ENGINEERING
PRIVATE BAG 3323
PRETORIA 0001

REGIONAL OFFICE
DR. HANDELOO
TOWN OF BELLVILLE
C. NELSOND

DESIGN: D. DE LANGE
DRAWN: G. NELSOND

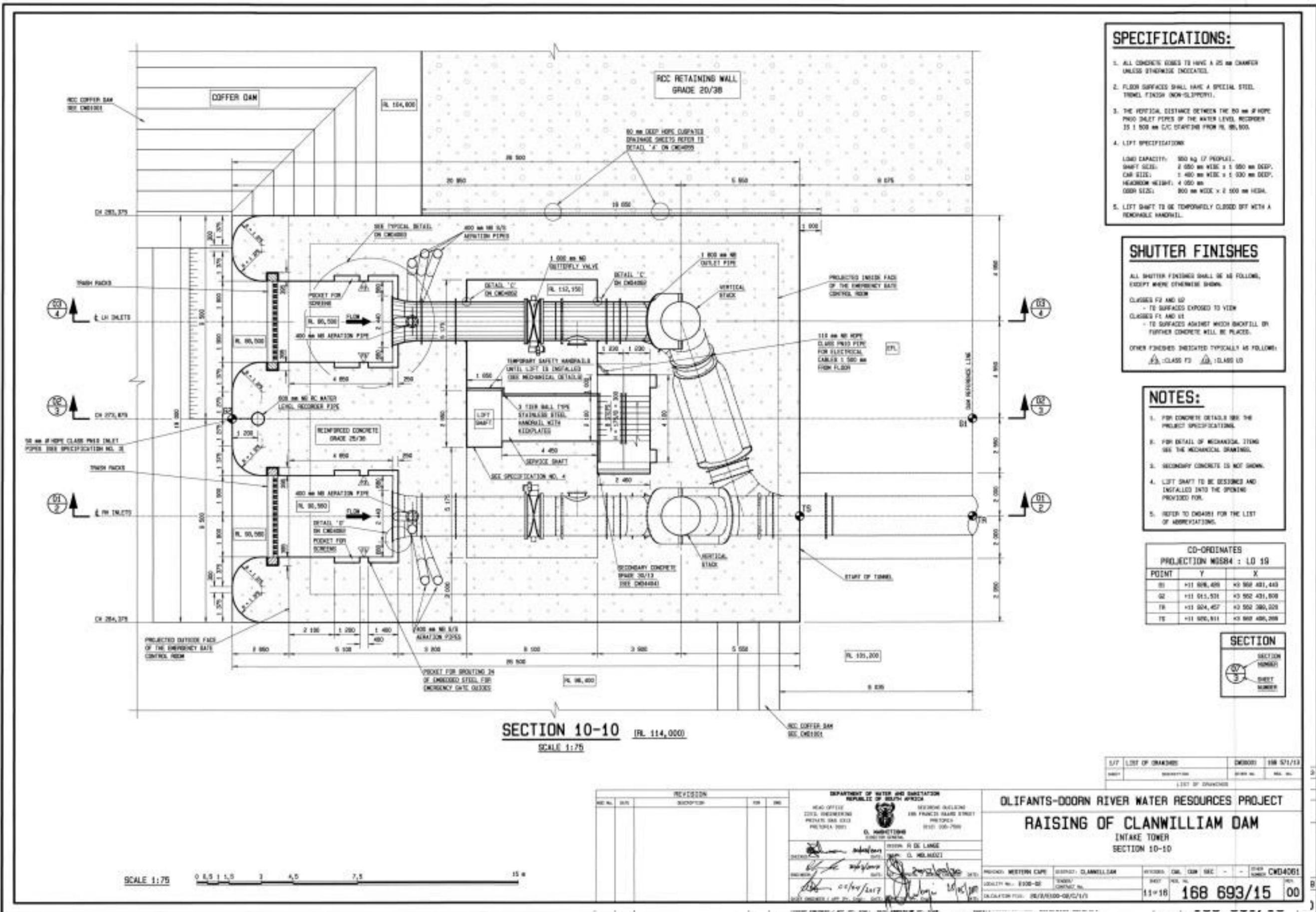
OLIFANTS-ODORN RIVER WATER RESOURCES PROJECT

RAISING OF CLANWILLIAM DAM

INTAKE TOWER
SECTION 07-07

PROJECT: WESTERN CAPE | DISTRICT: CLANWILLIAM | DIVISION: DAL | DEPT: DEC | SHEET: 168 690/15 00

QUALITY NO: E180-02 | DRAWN: G. NELSOND | DATE: 2015/08/15



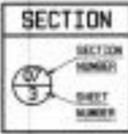
- SPECIFICATIONS:**
1. ALL CONCRETE EDGES TO HAVE A 25 mm CHAMFER UNLESS OTHERWISE INDICATED.
 2. FLOOR SURFACES SHALL HAVE A SPECIAL STEEL TRENCH FINISH (NON-SLIPPOY).
 3. THE VERTICAL DISTANCE BETWEEN THE 80 mm Ø HOPE PROSD DALET PIPES OF THE WATER LEVEL RECORDER IS 1 500 mm O.C STARTING FROM RL 98,500.
 4. LIFT SPECIFICATIONS:
LOAD CAPACITY: 300 kg OF PEOPLE.
SHAFT SIZE: 2 000 mm WIDE x 1 500 mm DEEP.
CAR SIZE: 1 400 mm WIDE x 1 500 mm DEEP.
HEADROOM HEIGHT: 4 000 mm.
DOOR SIZE: 800 mm WIDE x 2 000 mm HIGH.
 5. LIFT SHAFT TO BE TEMPORARILY CLOSED OFF WITH A REMOVABLE HANDWELL.

- SHUTTER FINISHES**
- ALL SHUTTER FINISHES SHALL BE AS FOLLOWS, EXCEPT WHERE OTHERWISE SHOWN.
- CLASSIFIED F2 AND U2
- TO SURFACES EXPOSED TO VIEW
- CLASSIFIED F1 AND U1
- TO SURFACES AGAINST WHICH BACKFILL OR FURTHER CONCRETE WILL BE PLACED.
- OTHER FINISHES INDICATED TYPICALLY AS FOLLOWS:
CLASS F3 CLASS U3

- NOTES:**
1. FOR CONCRETE DETAILS SEE THE PROJECT SPECIFICATIONS.
 2. FOR DETAIL OF MECHANICAL ITEMS SEE THE MECHANICAL DRAWINGS.
 3. SECONDARY CONCRETE IS NOT SHOWN.
 4. LIFT SHAFT TO BE DESIGNED AND INSTALLED INTO THE SPACING PROVIDED FOR.
 5. REFER TO DRAWING FOR THE LIST OF ABBREVIATIONS.

CO-ORDINATES
PROJECTION WGS84 : LD 19

POINT	Y	X
01	+11 806,499	+3 959 481,443
02	+11 815,531	+3 952 431,809
1R	+11 804,457	+3 952 380,028
TS	+11 802,911	+3 959 480,269

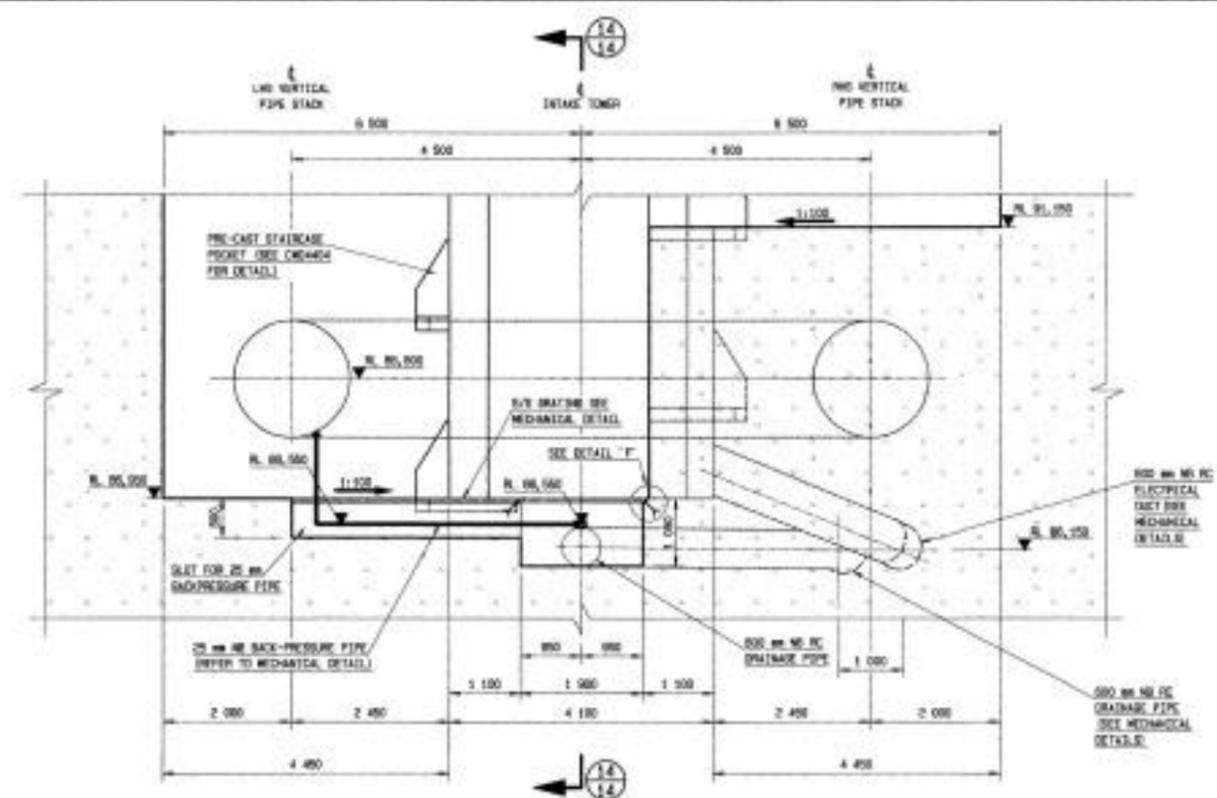


LIST OF CHANGES

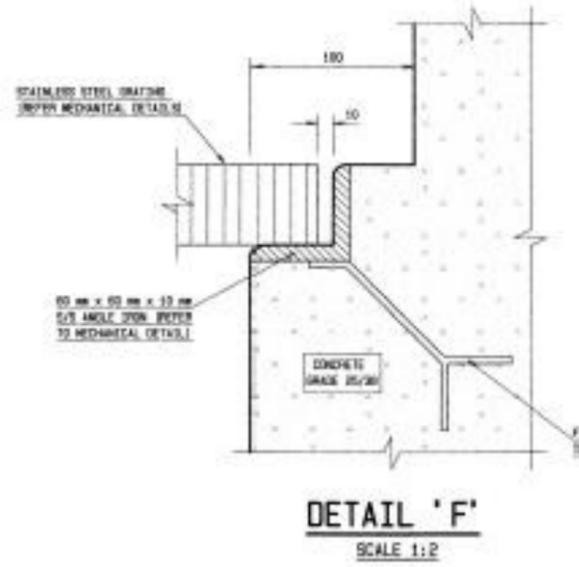
S/N	LIST OF CHANGES	DATE	BY	APP. NO.

<p>REVISION</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	BY	APP.						<p>DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA</p> <p>HEAD OFFICE CIVIL ENGINEERING PRIVATE BAG 6313 PRETORIA 0001</p> <p>REGIONAL OFFICE 186 FRANCIS BAARD STREET PRETORIA 0151 206-7500</p> <p>PROJECT: RAISING OF CLANWILLIAM DAM DRAWN BY: G. DE LANGE CHECKED BY: G. DE LANGE</p>		<p>OLIFANTS-DOORN RIVER WATER RESOURCES PROJECT</p> <p>RAISING OF CLANWILLIAM DAM</p> <p>INTAKE TOWER SECTION 10-10</p>	
NO.	DATE	DESCRIPTION	BY	APP.											
<p>PROJECT: WESTERN CAPE SHEET: 15 OF 18 DRAWN BY: G. DE LANGE DATE: 02/05/2017</p>		<p>PROJECT: CLANWILLIAM DAM SHEET: 15 OF 18 DRAWN BY: G. DE LANGE DATE: 02/05/2017</p>		<p>PROJECT: WESTERN CAPE SHEET: 15 OF 18 DRAWN BY: G. DE LANGE DATE: 02/05/2017</p>											

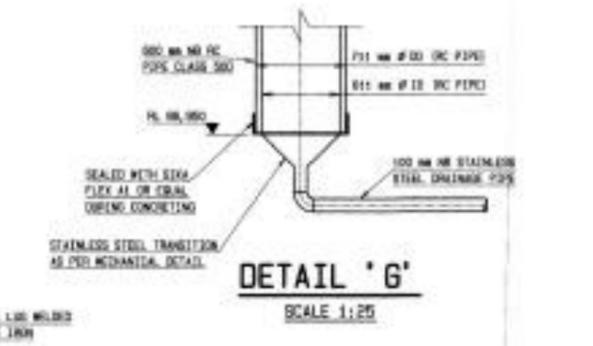
SECTION
SECTION NUMBER
DRAUGHT NUMBER



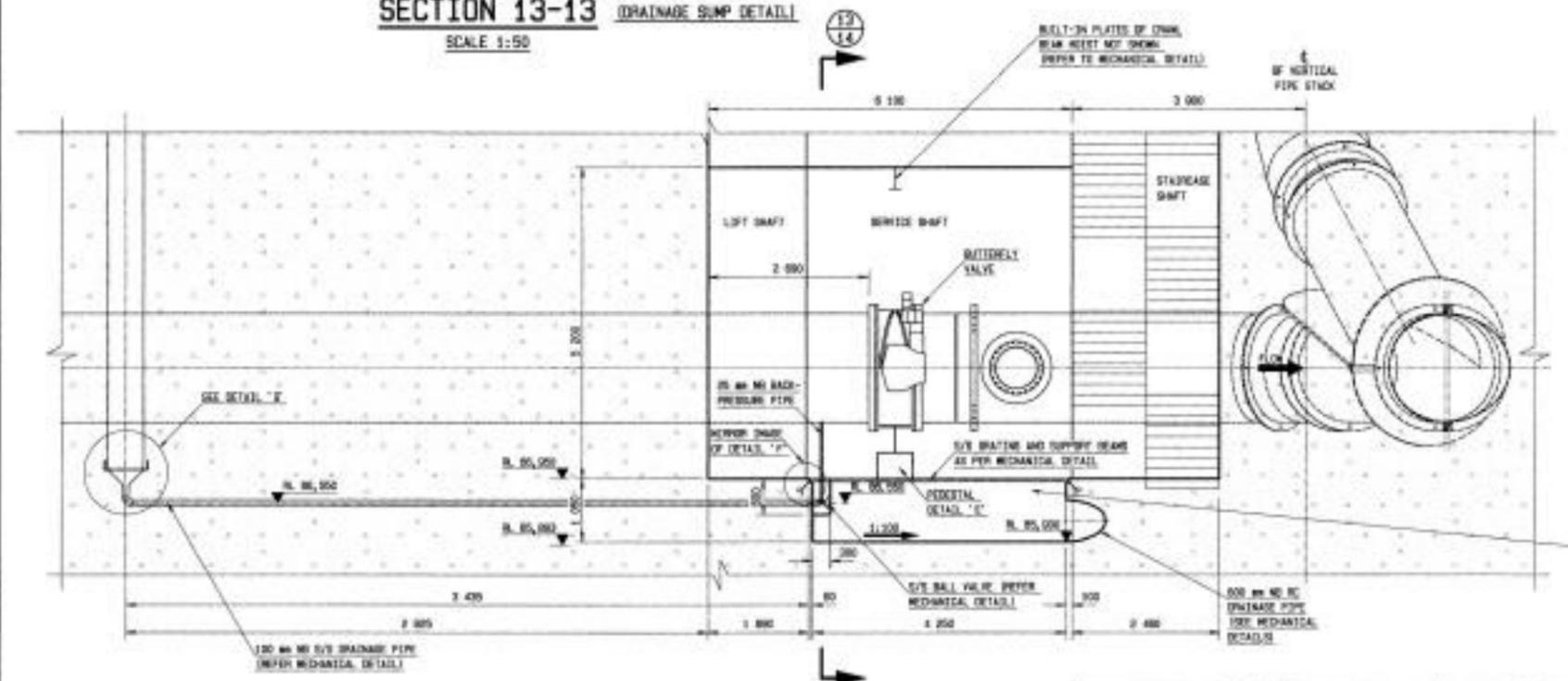
SECTION 13-13 (DRAINAGE SUMP DETAIL)
SCALE 1:50



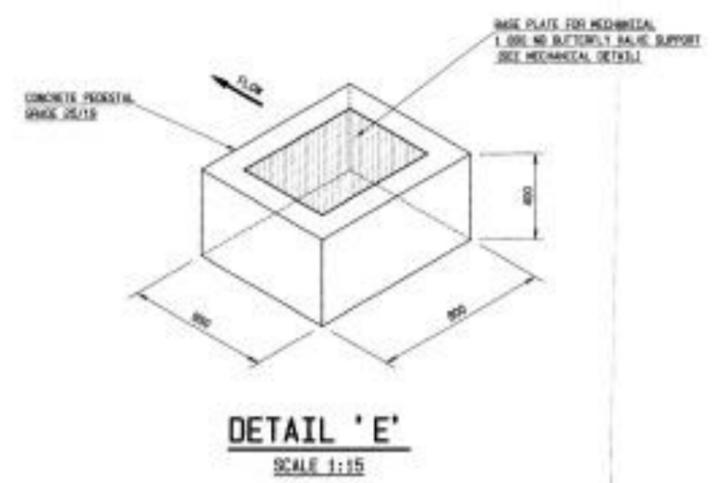
DETAIL 'F'
SCALE 1:2



DETAIL 'G'
SCALE 1:25

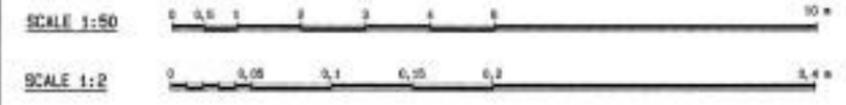


SECTION 14-14 (DRAINAGE SUMP DETAIL)
SCALE 1:50



DETAIL 'E'
SCALE 1:15

1/7	LIST OF DRAWINGS	CND004	180 05/13
1/8	REVISIONS	1/18	180 05/13



NO.	DATE	REVISION	BY	CHK

DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
CIVIL ENGINEERING
PRETORIA 000 1223
PRETORIA OFFICE

REGISTRAR GENERAL
180 FRANCIS BAARD STREET
PRETORIA
0101 330-7500

S. NAGETSHO
GENERAL MANAGER

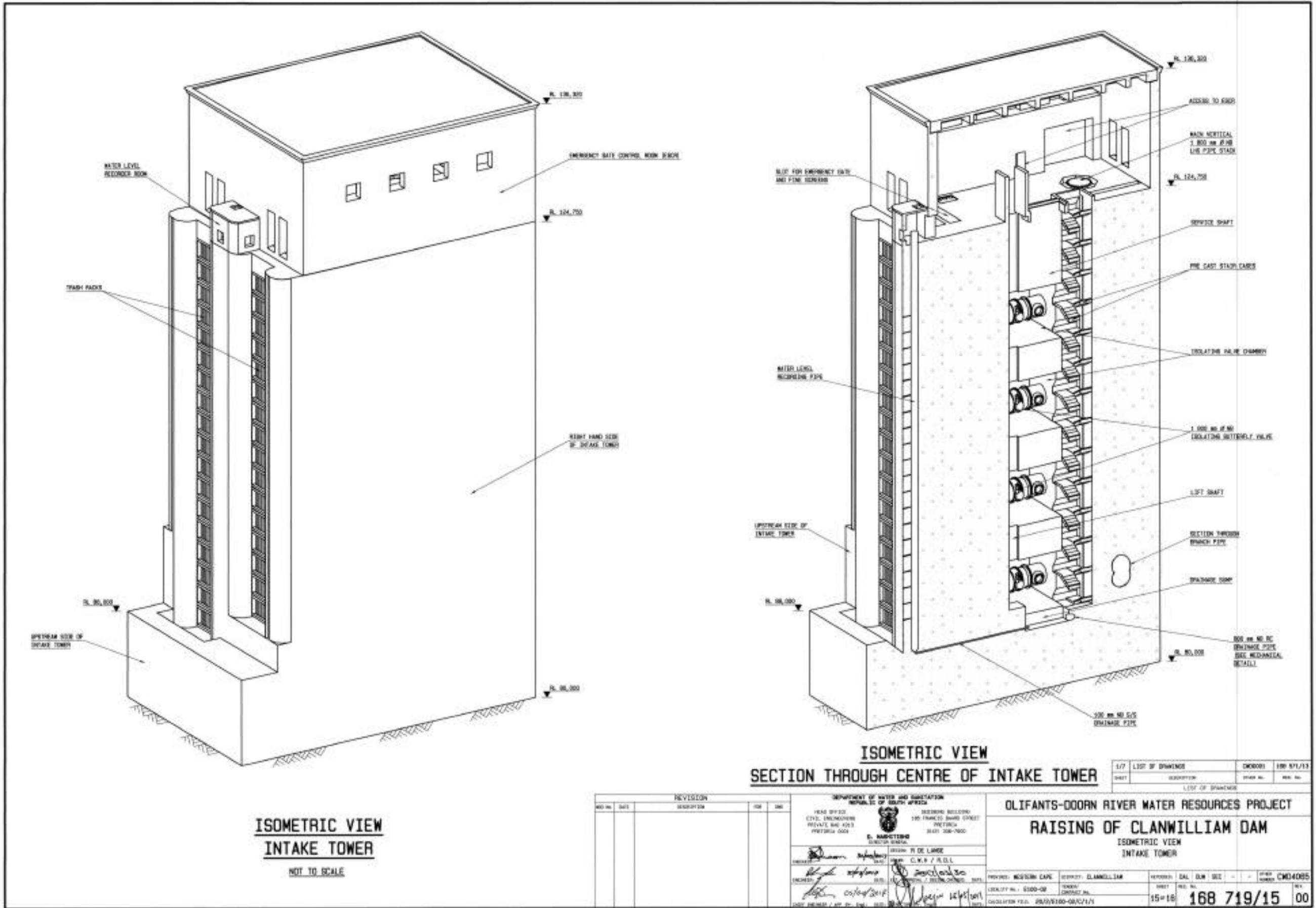
WILLEM B DE LANDE
DIRECTOR
E. V. BAMPESA

OLIFANTS-DOORN RIVER WATER RESOURCES PROJECT

RAISING OF CLANWILLIAM DAM
INTAKE TOWER
DRAINAGE SUMP DETAILS

PROJECT: WESTERN CAPE | DISTRICT: CLANWILLIAM | REGION: SAL | SUB-REGION: SEC | OTHER: CND4004

LOCALITY NO.: E180-02 | DRAWING NO.: 14-15 | SHEET NO.: 168 696/15 | REV: 00



**ISOMETRIC VIEW
INTAKE TOWER**
NOT TO SCALE

**ISOMETRIC VIEW
SECTION THROUGH CENTRE OF INTAKE TOWER**

1/7	LIST OF DRAWINGS	CM0001	100 871/13
DATE	DESCRIPTION	PROP. NO.	REV. NO.

REVISION NO. DATE DESCRIPTION FOR ONE		DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA HEAD OFFICE CIVIL ENGINEERING PRIVATE BAG 4013 PRETORIA 0004		MIDRAND BUILDING 150 FRANKS SQUARE CORNER PRETORIA 0001 300-7900		OLIFANTS-DOORN RIVER WATER RESOURCES PROJECT RAISING OF CLANWILLIAM DAM ISOMETRIC VIEW INTAKE TOWER			
E. NABOTSE DIRECTOR GENERAL		DEPUTY DIRECTOR GENERAL C.W.F./R.D.L.		REGION: N DE LAPE DISTRICT: CLANWILLIAM		PROJECT: N2530N CAPE LOCALITY NO.: 6300-02 CONTRACT NO.:		REGION: CAL DUN SEC SHEET NO.: 15 OF 18 DRAWING NO.: 168 719/15 00	