



Landscape Architectural Candidate Workshop

**South African Council for the Landscape Architectural
Profession**

30 MARCH 2019



Section 2 - Landscape Design

Section 4 - Landscape Project Management and Landscape Construction

Section 5 - Applied Horticultural and Landscape Technology

PROJECT PROFILE

- MOTIVATION REPORT
- PROFILE OF EVIDENCE



Weighting Core competency Table 4 November 2016

Proposed minimum weighting	DEFINITIONS
9	PROFICIENT: (practice orientated) An ability to demonstrate project based application of specialist knowledge, critically engaging with current research and or practices in doing so. To, within specific study fields, demonstrate the ability to apply appropriate methods and processes in unique real life project scenarios. To be proficient in management, design and supervision of project implementation in practice.
7	COMPETENT: (field specific competence) Demonstrate knowledge of and project based engagement in an area at the forefront of a field, discipline and practice; relating that knowledge to a particular context. Selecting and applying appropriate procedures, processes and techniques to unique landscape related challenges within a specialized field of practice.
5	KNOWLEDGE AND UNDERSTANDING: (integrated knowledge) the assimilation and comprehension of knowledge. Individuals should be able to understand, apply and evaluate the key terms, concepts, facts, principles, rules and theories within the working environment. The ability to select and apply a range of methods to resolve realistic landscape related problems in practice.
3	KNOWLEDGABLE: (to be acquainted with) To demonstrate <u>detailed</u> knowledge of one or more fields, disciplines or practices including the ability to apply appropriate methods, procedures and techniques within a defined context.
1	INFORMED AWARENESS: To be sufficiently informed on matters pertaining to the profession i.e. demonstrate a basic knowledge. Aided through experiential training and or industry related methods of learning.

The purpose of the project profile and the report is to assess the experience gained in terms of the SACLAP's core competency table since obtaining of the individual's tertiary qualification.

The candidate is to present a project profile and a report that demonstrates the knowledge gained in the best possible manner in order for the assessors to evaluate the core competencies.



[illegible]

4.4	Construction Contract Administration	5	3	5	3	5	3	3	1
	Costing, rate calculation, work measurement, preparation of monthly claim, interaction with cost								
	controller for valuation and certification of landscape work								
	Quality assurance in relation to specifications, testing of components and /materials, samples, site house keeping								
	Format & frequency, reporting and feedback								
	Preparation and submission, returnables schedule, pricing review, evaluation criteria, insurances, compliance issues								
	Appointment letter, contract document familiarisation, forms of contract and implications								
5	Applied Horticulture/Landscape Technology								
5.1	Plant knowledge	7	5	7	5	5	5	5	3
	Nomenclature, characteristics, uses and requirements								
5.2	Plant propagation	1	1	1	1	1	1	1	1
	Nursery management: set up on site, propagation methods, propagation mediums, fertilizing, maintenance, pest and disease control								
5.3	Arboriculture	3	3	3	3	3	3	1	1
	Tree planting methods, appropriate pruning, root treatment, tree surgery, pests & disease identification and treatment, tree removal practises								
5.4	Soil knowledge	3	3	3	3	3	3	1	1
	Classification (interpretation), fertilisation, handling and placing, cultivation, mulching, growth media								
	Flow of water, infiltration, porosity, watering requirements								
5.5	Turf grass management	3	3	3	3	3	3	1	1
	Sport field, construction, maintenance, preparation of fields								
5.6	Irrigation	3	3	3	3	3	3	3	1
	Water quality - interpretation of lab results, mitigation measures, etc								
	Design of systems, working drawings and estimates of quantities and costs, installation and maintenance								
	Determination of watering requirements, implementing water-wise principles								
5.7	Landscape equipment/mechanisation	3	1	3	1	3	1	1	1
	Understanding equipment capacity/specifications/suitability/calibration								
5.8	Landscape installation practise	5	3	5	3	5	3	3	3
	Plant handling & installation								
	Skill in the use and suitability of materials : paving , concrete, street furniture etc.								
5.9	Landscape maintenance practice	5	3	5	3	5	3	3	3
	Plant growth, , water requirements								
	Pest and disease control								
	Best practice principles								

Section 2,4,5 Landscape Architectural Design.....

Scale of evaluation

Core competency competency level

- 9 PROFICIENT: (practice orientated) An ability to demonstrate project based application of specialist
7 COMPETENT: (field specific competence) Demonstrate knowledge of and project based engagement in
5 KNOWLEDGE AND UNDERSTANDING: (integrated knowledge) the assimilation and comprehension of
3 KNOWLEDGABLE: (to be acquainted with) To demonstrate detailed knowledge of one or more fields, dis
1 INFORMED AWARENESS: To be sufficiently informed on matters pertaining to the profession i.e. demon

Candidate name:

Mentor:

Date:

2	Landscape Design	Professional Landscape Architect	Professional Senior Landscape Architectural Technologist	Professional Landscape Architectural Technologist	Professional Landscape Architectural Technician	Mark (1-10)	% OF TOTAL	Sub- total Mark	0
2.1	Landscape Master Planning/Design Framework					0	20%	0.0	
2.1.1	Site survey/analysis/evaluation	9	7	5	1				
2.1.2	Design Framework/ Master Plans	9	7	5	1				
2.1.3	Reports and guidelines	9	7	5	1				
2.2	Landscape Theories and Methodologies					0	5%	0.0	
2.2.1	Landscape architecture history, theory and critique. Adhering to national standards and specification	9	7	5	1				
2.2.2	Landscape design theory eg. sustainable design, green building, ecological responsive design, SITES, New Landscape Declaration, etc	9	7	5	3				
2.2.3	Construction history, theory and critique	9	7	5	3				
2.2.4	Cultural landscapes	9	7	5	3				
2.3	Landscape Design					0	30%	0.0	
2.3.1	Landscape levels, drainage plans, storm water management	9	7	5	1				
2.3.2	Brief description of scope of work	9	7	5	1				
2.3.3	Interpretation of project brief	9	7	5	1				
2.3.4	Site survey/analysis/evaluation	9	7	5	1				
2.3.5	Collation of data, services and relevant integration of design information	9	7	5	1				
2.3.6	Evaluation of data	9	7	5	1				
2.3.7	Concept and concept development	9	7	5	1				
2.3.8	Material palette (hard and soft, street furniture, colours, textures, look and feel) and seasonal availability/lead times	9	7	5	1				
2.3.9	Sketch design proposals and responsiveness to design conditions. Section, elevations and presentation drawings	9	7	5	1				
2.3.10	Motivational reports i.e. what were the opportunities/ challenges/ considerations and how did the design address such	9	7	5	1				
2.3.11	Describe the interaction and communication with the other professionals and specialists on the team	9	7	5	1				
2.3.12	Any plans / documentation approval; national and local authority requirements e.g. National Building Regulations SANS 10400, NEMA, municipal by-laws, SDP/LDP's etc.	9	7	5	1				

MARK OUT OF 100

4	Landscape Project Management and Landscape Construction	Professional Landscape Architect	Professional Senior Landscape Architectural Technologist	Professional Landscape Architectural Technologist	Professional Landscape Architectural Technician	Mark (1-10)	% OF TOTAL	Sub- total Mark	0
4.1	Project Management:					0	20%	0.0	
4.1.1	Co-ordinate of role players, meetings and procedures. Co-ordination, integration and dissemination of project information with other contractors and consultants	7	5	3	1				
4.1.2	Example of a site meeting minutes (drawn up by candidate)	7	5	3	1				
4.1.3	Example of a drawing register (drawn up by candidate)	7	5	3	1				
4.2	Construction Contract Management:					0	20%	0.0	
4.2.1	Co-ordinate of sub contractors, meetings and procedures. Co-ordination, integration, management and dissemination of project implementation information.	5	5	5	3				
4.2.2	Understanding of complexity, context and difficulty, interface with other contractors, access, storage & staging points. Programming	5	5	5	3				
4.2.3	Interface with other contractors and consultants, dependencies, sequencing of work, penalties and delays, notifications of delays.	5	5	5	3				
4.2.4	Example of a site instruction (drawn up by candidate)								
4.2.5	Example of variation order (drawn up by candidate)								
4.3	Construction Contract Implementation:					0	20%	0.0	
4.3.1	Elevations, slopes and falls, co-ordinates, datum points, setting out points, dimensions, distances and proportion	5	5	5	3				
4.3.2	Supplier management and control, size, type and sequencing of deliveries, commercial arrangements and proportions.	5	5	5	3				
4.3.3	Understanding specifications, aesthetic interpretation, accuracy of installation	5	5	5	3				

5	Applied Horticultural and Landscape Technology	Professional Landscape Architect	Professional Senior Landscape Architectural Technologist	Professional Landscape Architectural Technologist	Professional Landscape Architectural Technician	Mark (1-10)	% OF TOTAL	Sub- total Mark	0
5.1	Plant knowledge					0	20%	0.0	
5.1.1	Botanical nomenclature, characteristics, uses and requirements. plant taxonomy, plant physiology, plant communities/companion planting, ecological value	7	7	5	5				
5.2	Plant propagation:					0	10%	0.0	
5.2.1	Nursery management: set up on site, propagation methods, propagation mediums, fertilizing, maintenance, pest and disease control. plant harvesting (on site or local) and/or rescue (on site or local)	1	1	1	1				
5.3	Arboriculture					0	10%	0.0	
5.3.1	Tree planting methods, appropriate pruning/root treatment, tree surgery, pests & disease identification and treatment. Best practice	3	3	3	1				
5.3.2	Tree removal practises (Alien invasive and non invasive)	3	3	3	1				
5.3.3	Transplanting practices and technologies	3	3	3	1				
5.4	Soil knowledge					0	10%	0.0	
5.4.1	Classification (interpretation), fertilisation, handling and placing, cultivation, mulching, growth media. applicable to on site and imported soils. Topsoil harvesting and storage from site	3	3	3	1				

- Explain **your role** in the project
- Motivate your **methodology** used
- Information to be clear and **readable**
- Why, how, lessons learned
- Only work after University

Section 2,4,5 - Landscape Architectural Design.....

Reference Material applicable to this Section

The Standard Measurements System

Model Preambles to Trades

National Building Regulations SANS 10 400

Sustainable Site Initiative™



Section 2 - Landscape Architectural Design.....

Landscape Master Planning/Design Framework

Site survey, site analysis, site evaluation, recommendations, reports and guidelines

- Site survey
 - Appointment of surveyor
 - Clearly state what info you require
 - Accuracy of information
- Site analysis/evaluation
 - State the constraints (if any)
 - State context/purpose/desired outcome
 - Advise client of outcome
- Reports and guidelines
 - Index
 - State purpose
 - Clearly set out information – logical thought process

Interpreted
information

Opportunity
& constraints

State purpose

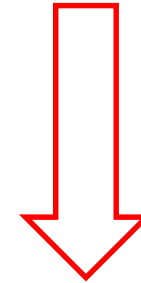


Section 2 - Landscape Architectural Design.....

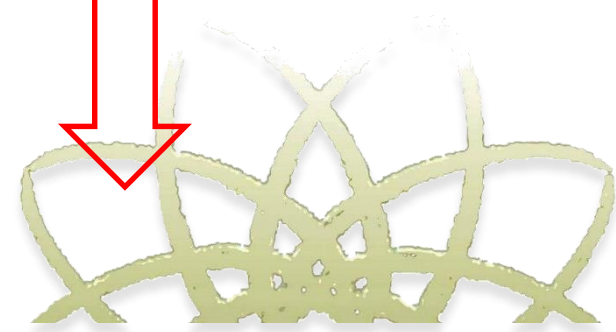
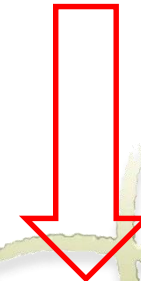
Landscape Design

Interpretation of brief, collation of data, services and relevant integration of design information, evaluation of data, communication skills, sketch design proposals, presentation drawings, motivational reports, plans approval and local authority requirements, advise on other professional involvement

- Interpretation of brief
- Integration of design information
- Evaluation of data
- Concept
- Sketch plans
- Presentation drawings
- Stakeholder engagement
- Recognition of budget
- Working drawings for Construction
- As-builts



Project time line



Section 2 - Landscape Architectural Design.....

Landscape Design

Interpretation of brief, collation of data, services and relevant integration of design information, evaluation of data, communication skills, sketch design proposals, presentation drawings, motivational reports, plans approval and local authority requirements, advise on other professional involvement

The National Building Regulations SANS 10400 focus is on building but the following need to be taken cognisance of:

Part A: General principles and requirements

Part B: Structural design

Part C: Dimensions

*Part D: **Public safety***

Part F: Site operations

Part G: Excavations

*Part M: **Stairways***

Part O: Lighting and ventilation

Part P: Drainage

Part Q: Non-water-borne means of sanitary disposal

Part R: Stormwater disposal

*Part S: **Facilities for persons with disabilities***

Showcase project where
you have applied these
regulations



Section 2 - Landscape Architectural Design.....

Landscape Design

Interpretation of brief, collation of data, services and relevant integration of design information, evaluation of data, communication skills, sketch design proposals, presentation drawings, motivational reports, plans approval and local authority requirements, advise on other professional involvement

- Sustainable Sites Initiative™ Version 2
 - Site Selection
 - Pre-design assessment & planning
 - Site design – water
 - Site design – soil & vegetation
 - Site design – material selection
 - Site design – human health & well-being
 - Construction
 - Operation & maintenance
 - Monitoring & innovation



Section 2 - Landscape Architectural Design.....

Working drawings & Documentation associated with Landscape implementation

Hard and Soft Landscape Detail Construction drawings, grading plans, planting plans, irrigation design inputs, specifications, bills of quantities

- Landscape detailing
 - Hard elements
 - Soft elements – planting
 - Irrigation (design & supply, specialist input)
- Specifications
 - Level of detail
- BOQ
 - Accuracy of information
 - Reflect what is on drawings
 - Reflect what is in the specifications
 - Remember to include specialist information
- Construction administration
 - **Completion certificates, payment certificates etc**
 - Site instructions etc.

Readable plans

Explain your work methodology



Section 2 - Landscape Architectural Design.....

Cost Estimation of Landscape Installations

Cost estimation, project budget confirmation, Quantification and measuring ,material and labour rates.

(evaluated in exam, portfolio & CV)

- Budget
- Cost estimation at high level of concept
- Cost refinement after detail design is completed
- Value engineering
- Management of costs during project cycle

Explain your work
methodology



Section 2 - Landscape Architectural Design.....

Technical Skills associated with Landscape Architecture

Drafting, presentation techniques, photography, computer literacy

- This is demonstrated in the supporting documentation that you submit.

Research

- In the motivation section of the documentation, you are to describe briefly the research that each project required.



Section 4 - Landscape Project Management and Landscape Construction

Project Management

- Co-ordinate of role players, meetings and **procedures**. **Co-ordination**, integration and dissemination of project information with other contractors and consultants
- Example of **site meeting minutes** (drawn up by candidate)
- Example of a **drawing register** (drawn up by candidate)

Construction Contract Management

- Co-ordinate of sub contractors, meetings and procedures. Co-ordination, integration, management and **dissemination of project implementation information**.
- Understanding of complexity, context and difficulty, **interface with other contractors**, access, storage & staging points. Programming
- Interface with other contractors and consultants, dependencies, **sequencing of work**, penalties and delays, notifications of delays.
- Example of a **site instruction** (drawn up by candidate)
- Example of **variation order** (drawn up by candidate)



Section 4 - Landscape Project Management and Landscape Construction

Construction Contract Administration

- Elevations, slopes and falls, co-ordinates, datum points, **setting out** points, **dimensions**, distances and proportion.
- **Supplier management** and control, size, type and sequencing of deliveries, commercial arrangements and proportions.
- Understanding specifications, aesthetic interpretation, **accuracy of installation**.

Construction Contract Administration

- **Costing**, rate calculation, work measurement, preparation of monthly claim, interaction with cost controller for valuation and certification of landscape work.
- **Quality assurance in relation to specifications**, testing of components and/materials, samples (material samples and on site mock ups), site house keeping. Format & frequency, reporting and feedback.
- **Preparation and submission**, returnable schedule, pricing review, evaluation criteria, insurances, compliance issues. Example: Health and Safety & waste management.
- **Appointment letter**, contract document familiarisation, forms of contract and implications. Environmental compliance (EIA, EMP) authorisation compliance & legislative compliance.



Section 5 - Applied Horticultural and Landscape Technology

Plant knowledge

- Botanical nomenclature, characteristics, uses and requirements. plant taxonomy, plant physiology, **plant communities/companion planting, ecological value**

Plant propagation

- **Nursery management:** set up on site, propagation methods, propagation mediums, fertilizing, maintenance, pest and disease control. plant harvesting (on site or local) and/or rescue (on site or local)

Arboriculture

- **Tree planting methods**, appropriate pruning, root treatment, tree surgery, pests & disease identification and treatment. Best practice
- **Tree removal practises** (Alien invasive and non invasive)
- **Transplanting practices and technologies**

Soil knowledge

- Classification (interpretation), **fertilisation**, handling and placing, **cultivation**, mulching, growth media. applicable to on site and imported soils. Topsoil harvesting and storage from site
- Flow of water, infiltration, porosity, watering requirements

Turf grass management:

- Sport field, **construction**, maintenance, preparation of fields. **drainage**, refurbishment/renewal/reinstatement; sporting code specifications e.g. FIFA, IRB, IAAF, etc;



Section 5 - Applied Horticultural and Landscape Technology

Irrigation

- **Water quality** - interpretation of lab results, mitigation measures, system appropriateness and technologies; **water sources** etc.
- **Design of systems**, working drawings and estimates of quantities and costs, installation and maintenance.
- Determination of **watering requirements**, implementing water-wise principles

Landscape Equipment

- Understanding **equipment capacity**, specifications, suitability, calibration. Costs, skill requirements, **limitations**, sourcing, availability, etc

Landscape installation practices

- Plant handling & **installation**, skill in the use and suitability of materials: paving, concrete, street furniture etc. **Setting out**. On site **storage and handling of materials**

Landscape maintenance practice

- Plant growth, water requirements. Carbon footprint of **maintenance**; SITES; specifications; replacement of plants/materials; programming; pruning; seasonal tasks; hard landscape maintenance (paving, furniture, electrical, services, bins, sweeping, detergents, etc); irrigation maintenance (cleaning heads, **replacement** of worn parts, **repairs**, UV damage, etc); vandalism; monitoring
- **Pest and disease** control,
- **Best practice principles** and audits



Section 2,4,5 Landscape Architectural Design.....

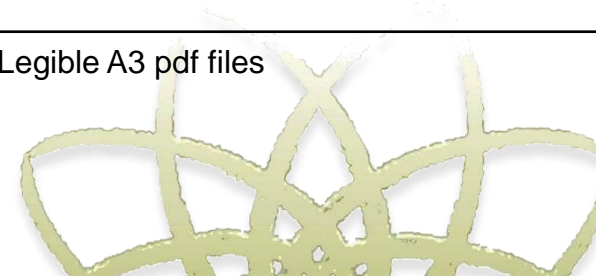
- This is a **project profile** where each project is set out in terms of the checklist provided to demonstrate the core competencies in the checklist.
- The **motivation report** should set out why you selected the project, what you learnt it and provide more information that cannot be provided in the checklist.
- **4 - 7 PROJECTS**
 - A range in **different scope of work** e.g. commercial, residential, resort, campus etc.
 - **Small/basic in complexity projects** e.g. residential, traffic islands, courtyards etc.
 - Large/complicated in complexity projects e.g. Multi use development, roof gardens, etc.
- **Work Stages 1-6** should be set out in all the projects chosen and if not, why not
- **Before, during and after photos**
- **Please reference projects items with check list items**
- **Legibility**



COMPREHENSIVE PROJECT PROFILE AND MOTIVATION REPORT

SUBMISSION NO LATER THAN 26 APRIL 2019
HARD COPY & PDF

	DELIVERABLES	FORMAT
1	Motivational report per project (Why, how etc) <ul style="list-style-type: none">• Checklist per project• Summary checklist of the projects (all listed items to be checked at least twice between the 4-7 projects)• Reports, motivation of methodology etc• Mentor to sign off on your involvement in each project• Affidavit	A4 – Arial (10) single line spacing
2	Project profile <ul style="list-style-type: none">• Plans per project• Clear numbering and referencing (Core competency table) between the motivational report and the portfolio is critical to demonstrate how the SACLAP's core competency has been met.	Legible A3 pdf files



Section 2,4,5 - Landscape Architectural Design.....

- **Project Profile – candidacy requirement**
 - Use core competency table as outline
 - With a project state the following information to illustrate the competency:
 - Your role in the project
 - The brief from the client
 - Project value
 - How it was accomplished
 - Draw attention to a specific skill, input, innovative resolution of detail, challenges faced and how resolved
 - Include as much information as possible
 - Information is to be **legible**
 - Representative of work that you have actually done in the time of being a candidate
 - **Legible** resolution of PDF file
 - Importance of Affidavit and your signature on relevant documents
 - Please reference projects items with check list items
 - Before during and after photos are important



STEP 1: CONSOLIDATION TABLE

PROJECT PROFILE CHECKLIST								
		Project 1 - Name	Project 2 - Name	Project 3 - Name	Project 4 - Name	Project 5 - Name	Project 6 - Name	Project 7 - Name
2	Landscape Design							
2.1	Landscape Master Planning/Design Framework							
2.1.1	Site survey/analysis/evaluation							
2.1.2	Design Framework/ Master Plans							
2.1.3	Reports and guidelines							
2.2	Landscape Theories and Methodologies							
2.2.1	Landscape architecture history, theory and critique. Adhering to national standards and specification							
2.2.2	Landscape design theory eg. sustainable design, green building,							
2.2.3	Construction history, theory and critique							
2.2.4	Cultural landscapes							
2.3	Landscape Design							

STEP 2: MOTIVATIONAL REPORT AND PLANS/DIAGRAMS

STEP 3: EVALUATED BY SACLAP PANEL

Candidate name:		Scale of evaluation
Category:		Core competency competency level
Mentor:		9 PROFICIENT: (practice orientated) An ability to demonstrate project based application of specialist
Date:		7 COMPETENT: (field specific competence) Demonstrate knowledge of and project based engagement in a
		5 KNOWLEDGE AND UNDERSTANDING: (integrated knowledge) the assimilation and comprehension of
		3 KNOWLEDGABLE: (to be acquainted with) To demonstrate detailed knowledge of one or more fields, dis
		1 INFORMED AWARENESS: To be sufficiently informed on matters pertaining to the profession i.e. demon

2	Landscape Design	Professional Landscape Architect	Professional Senior Landscape Architectural Technologist	Professional Landscape Architectural Technologist	Professional Landscape Architectural Technician	Mark (1-10)	% OF TOTAL	Sub- total Mark	0	MARK OUT OF 100
2.1	Landscape Master Planning/Design Framework					0	20%	0.0		
2.1.1	Site survey/analysis/evaluation	9	7	5	1					
2.1.2	Design Framework/ Master Plans	9	7	5	1					
2.1.3	Reports and guidelines	9	7	5	1					
2.2	Landscape Theories and Methodologies					0	5%	0.0		
2.2.1	Landscape architecture history, theory and critique. Adhering to national standards and specification	9	7	5	1					
2.2.2	Landscape design theory eg. sustainable design, green building, ecological responsive design, SITES, New Landscape Declaration, etc	9	7	5	3					
2.2.3	Construction history, theory and critique	9	7	5	3					
2.2.4	Cultural landscapes	9	7	5	3					
2.3	Landscape Design					0	30%	0.0		

Examples.....

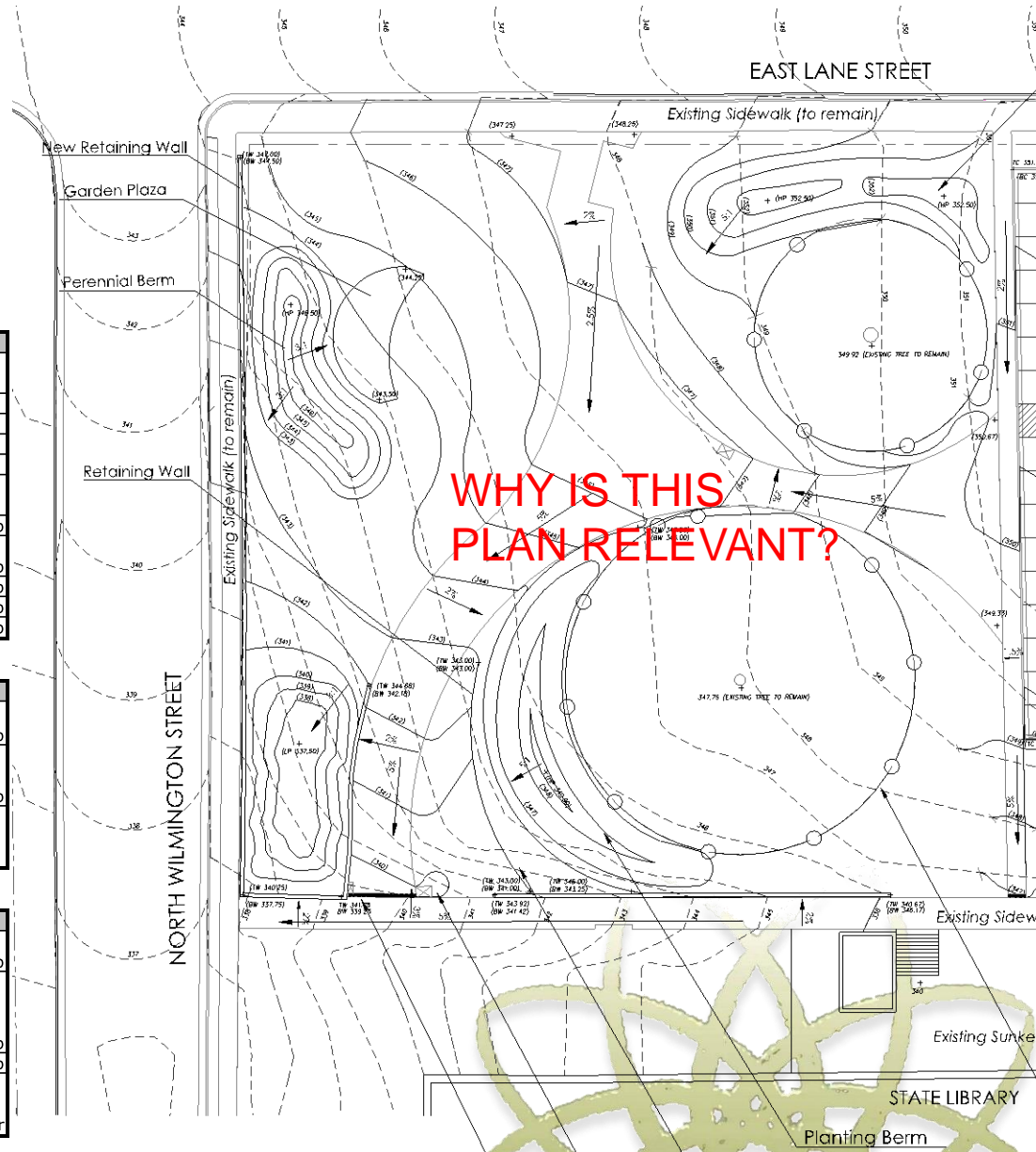
EXPLAIN YOUR DUTIES OR ROLE IN THE PROJECT

= lead
 = support
 = review

		B	R	M	S	
✓	11-Feb 1.1 Inception Meeting & Site Evaluation	Who				Due
✓	Collect applicable planning, policy, reports, development plans & zoning data					
✓	Collect applicable maps, GIS and aerial data					
✓	Agenda for client meeting confirmed with client					
✓	Draft Project Programme/plan					
✓	Prepare Powerpoint for presentation					
✓	Base map to talk to A3 - aerial, street names, project boundaries					
✓	Inception meeting presentation					11-Feb
✓	Site visit - assets, risks & opportunities, photographic records					11-Feb
✓	Meeting Minutes, PPT, Programme Submittal					12-Feb
✓	Follow up on Stakeholder Database & Notifications					16-Feb
✓	Follow up with Sarah on Heritage					16-Feb
Hours Spent		6	16	0		
		B	R	M	S	

		B	R	M	S	
✓	24-Feb 1.2 Data Gathering, Base Map, Materials Dev.	Who				Due
✓	Develop Site Base Map - topo, aerial, cadastral, footprints, 1:2000 scale A1					20-Feb
✓	Develop Regional Base Map - major roads, destinations, general land use and landscape patterns					20-Feb
✓	Start to identify and map spatial, policy, environmental, landscape, land ownership, social informants					
Hours Spent		1	4	24		
		B	R	M	S	

		B	R	M	S	
✓	26-Feb 1.3 Public Workshop - Issues & Vision	Who				Due
✓	PPT Presentation - including process, aim of the workshop & expectations, base maps					20-Feb
✓	Printed A1 Base Maps, A3 map of greater Porterville, 4 color markers, butcher's paper, sticker sets - 3 sets for 30ppl, bring attendance register, camera, laptop, projector, cables, ext cord					25-Feb
✓	Conduct Public workshop in Market Street Library					26-Feb
	Compile and summarise feedback to record and synthesis engagement outcomes, set up report template					2-Mar
Hours Spent		2	16	8		
		B	R	M	S	



THE TEXT MUST
BE LEGIABLE

Figure 1 shows a detailed site plan of the 'Pavilion' area. The plan includes a building footprint with internal room divisions, a parking lot, a road, and a wooded area. A yellow box highlights a specific area on the right side of the building. A legend on the right side of the plan defines the symbols used for different materials, vegetation, and infrastructure.

LANDSCAPE TENDER RECOMMENDATION:

1 The last approved landscape budget for the soft landscaping and irrigation phase of the project was:

R 15 080 000 – R 500 000 (gabions) – R 203 000 (63 and 32 mm piping) – R 14 377 000. Exc VAT and Fees

R 14 377 000,00 Excluding VAT

2 The lowest landscape contractor is, LIFE LANDSCAPES:

R 14 497 875,60 Excl VAT (before adjustments)

The new contract value for Life Landscapes is :

13 912 758,23 Excl VAT

3 The difference in budget and tender price is:

R 464 241,77 Excl VAT (Below allowed budget)

4 We recommend LIFE LANDSCAPES to be appointed for the contract.

Insite reviewed the rates for calculation errors and viability and requested additional information from both contractors to confirm viability of rates and determine the quality of material priced for.

The following sections can be reduced as a cost saving measure : Outside site boundary and Streetscape (Berkshire Blvd)

Life Landscapes initially indicates a 9 months installation period but after discussion it was agreed that a six (6) month period will be sufficient. The P % G amount is however still based on a nine month installation period. This will need to be discussed at the client meeting.

Life Landscapes had no qualifications as part of their tender.

Life Landscapes has requested a meeting with the client should they be the successful contractor.

The tender is a fixed price tender

We believe that more savings will be achieved during the contract period

CONTACT DETAILS FOR PROPOSED CONTRACTOR:

HEAD OFFICE :

Life Style Business Park, Block H
Cnr Beyers Naude Drive and Ysterhout Drive
Randpark Ridge, 2194
Gauteng
South Africa

P O Box 539

Weloblie, Johannesburg, 1714, Gauteng, South Africa

Contact Person: Deighton Clegg / Ida Marie Strydom

Tel +27 (0)11 959 1000

Fax +27 (0)11 959 1032

Email: anne@lifelandscapes.co.za

Please do not hesitate to call us should you want to discuss this tender adjudication in more detail.

ccm.1

Cape Town address:

Life Landscapes A Division of Life Green Group (Pty) Ltd
PHYSICAL ADDRESS:

Between Old Main Road/R102 and the N2,
Somerset West, Western Cape, 7129
VAT NO: 4800219661

ITEM 6.5

VALUE

SIGNATURE

DRAW ATTENTION TO
RELEVANT INFORMATION

Certificate for Payment

Certificate No: 2

Interim or Final: Interim

THE JOINT BUILDING CONTRACTS COMMITTEE

JBCC

Valuation date: 05-12-17

Issued Date: 05-12-17

Payment due date: 05/12/2017

	A	B	C	D
	CONTRACT SUM	CURRENT CONTRACT VALUE	CURRENT VALUATION	CURRENT CERTIFICATION
1.0	Value of works executed [19.3.1]		195,482.88	
2.1	Materials on site [19.3.2]		0.00	
2.2	Materials off site [19.3.2]		0.00	
3.0	SUB TOTAL		195,482.88	195,482.88
5.0	Net contract amount	695,882.64	695,882.64	
6.0	Authorised adjustments to contract value [20.0]		0.00	
7.0	TOTAL AMOUNT CERTIFIED			179,844.25
8.0	Less Previous gross amount certified [19.3.5]			46,692.58
9.0	NET AMOUNT CERTIFIED			133,151.67
10.1	Less Expense and loss payable to the employer (Recovery statement 1.1)			0.00
10.2	Less Penalties levied and payable to the employer (Recovery statement 1.2)			0.00
10.3	Add Damages payable to the contractor (Recovery statement 2.2)			0.00
11.0	SUB TOTAL	695,882.64	695,882.64	133,151.67
12.0	Add tax on 11.0 [25.3.8]	14 %	97,423.57	18,641.23
13.1	Less Recoupment from contractor of a deposit (Recovery statement 1.3.2)			0.00
13.2	Less Default interest payable to the contractor (Recovery statement 2.2.1)			0.00
13.3	Add Deposit amounts paid to the contractor (Recovery statement 2.1.2)			0.00
13.4	Add Tax exempt items (salvage materials used in the works) [18.3.10]			0.00
14.0	TOTAL	793,306.21	793,306.21	
15.0	Currency ZAR	CERTIFIED AMOUNT DUE FOR PAYMENT to the Contractor / Employer	Contractor	151,792.90
16.0	Contract sum execution (variable contractor guarantee only)		(C3.0/A11.0 x 100)	26 %
	Security status			
	Mark each box as appropriate	<20%	>20% X	Practical Completion X
	Signature			Date: 05-12-17
	Signed by the principal agent, who is agent for the employer, certifies that the positive or negative amount stated in D15.0 above is due and payable by the date stated, irrespective of the date of signature of this certificate.			
	Name and address of the principal agent's practice			
	JBCC NWA Edition 5.1 PAYMENT CERTIFICATE March 2014			

tem 5.4

2,500 mm stem height after planting with stem diameter of 35 - 40 mm measured 300 mm above soil level.

Compost must be free of weed seeds, harmful salts, soil, sand, animal by-products and pathogens. The compost must be made



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Sample of compost must be made available for approved by the Landscape Architect prior to delivery on site and comply with specification if required.

PROJECT INSERT: Tender Evaluation for the installation of a fencing system for Erf 1763

OBJECT INSERT: Extraction of the first four pages of the site meeting minutes I produced for a meeting that I chaired with the landscaping contractor and the sub-contractors.

Page 4 of 1Page 1 of 41

100

PROJECT INSERT:
Progress Pictures

10

100

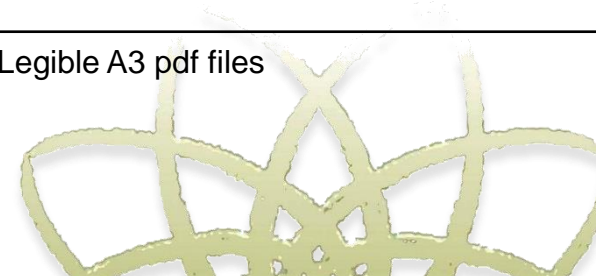
14

PROJECT INSERT:
BoQ that was issued to the contractor for pricing on behalf of the client for the requested additional Feature Signage Wall. The contractor priced the BoQ and same was approved by the client. The approved VO was added to the minutes and the working cash flow document as per payment to the contractor.

COMPREHENSIVE PROJECT PROFILE AND MOTIVATION REPORT

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	DELIVERABLES	FORMAT
1	Motivational report per project (Why, how etc) <ul style="list-style-type: none">• Checklist per project• Summary checklist of the projects (all listed items to be checked at least twice between the 4-7 projects)• Reports, motivation of methodology etc• Mentor to sign off on your involvement in each project• Affidavit	A4 – Arial (10) single line spacing
2	Project profile <ul style="list-style-type: none">• Plans per project• Clear numbering and referencing (Core competency table) between the motivational report and the portfolio is critical to demonstrate how the SACLAP's core competency has been met.	Legible A3 pdf files



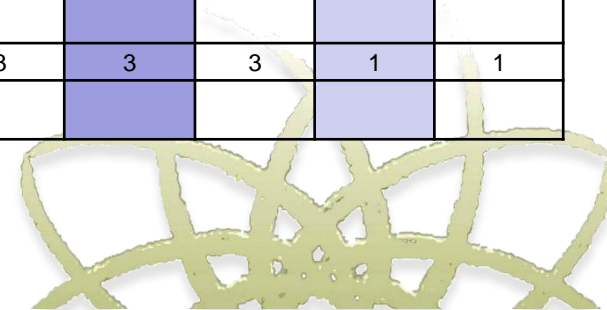
Thank you.....

15 minute break



Section 3 - Environmental Planning.....

		Professional Landscape Architect		Professional Senior Landscape Architectural Technologist		Professional Landscape Architectural Technologist		Professional Landscape Architectural Technician	
		NQF 9		NQF 8		NQF 7		NQF 6	
		Competency upon registration	Competency upon graduation	Competency upon registration	Competency upon graduation	Competency upon registration	Competency upon graduation	Competency upon registration	Competency upon graduation
	Core Competencies								
3	Environmental Planning & Management Processes								
3.1	Environmental Management & compliance issues	5	3	5	3	3	3	1	1
	Implementation of environmental management plans and compliance monitoring								
3.2	Environmental Planning	5	3	5	3	3	3	1	1
	Integrated environmental management, application of sustainable planning principles								
	Understanding the implications of the listed activities as set out in Environmental Legislation on a project level and responding in the appropriate manner i.e. identifying if formal process is required								
3.3	Rehabilitation	5	3	5	3	3	3	1	1
	Aspects of rehabilitation associated with the change in the landforms, appropriate soil preparation, erosion protection, planting, etc.								
3.4	Government Legislation, Regulations, Policies & Guidelines	5	3	5	3	3	3	1	1
	Pertains particularly to the Environmental related aspects at National, Provincial and Local level. e.g. biodiversity, protect areas, protected trees, alien vegetation, NEMA, Water Act etc.								
3.5	Natural Sensitive Habitat management	5	3	5	3	3	3	1	1
	Ecological systems, how they function, management of flora and fauna, legislative requirements that are to be met, maintenance of such areas e.g. wetlands, fynbos								
3.6	Alien vegetation control	5	3	5	3	3	3	1	1
	Chemical/non chemical management of vegetation, methods of application, cost estimation of vegetation control, nomenclature								



Section 3 - Environmental Planning.....

Reference Material applicable to this Section

- **National Environmental Management Act** (Act 107 of 1998 as amended), associated amendments and regulations
- **NEM: Protected Areas Act** (Act 57 of 2003)
- **NEM: Waste Act** (Act 59 of 2008) and GNR 921
- **NEM: Air Quality Act** (Act 39 of 2004)
- **Mineral and Petroleum Resources Development Act** (Act 28 of 2002)
- **National Water Act** (Act 36 of 1998), associated amendments and regulations
- **National Heritage Resources Act** (Act 25 of 1999)
- **NEM: Biodiversity Act** (Act 10 of 2004)
- **GNR 1002** of the 9TH December 2011 which provides listing notices for **ecosystems that are threatened** and in need of protection under the Biodiversity Act. Disturbance of these ecosystems requires an environmental application under sections 24(5) and 44 of the National Environmental Management Act
- **NEM: Biodiversity Act** (Act 10 of 2004): **Alien and Invasive Species Regulations**
- South Africa's **National Listed Invasive Species** as published in the Alien and Invasive Species Regulations (AIS), National Environmental Management Biodiversity Act (Act 10 of 2004) as published in the Government Gazette **29 July 2016**
- Notice of **Protected Trees** under the National Forests Act (Act 84 of 1998 as amended). GNR 734 of the 16 September 2011
- **Conservation of Agricultural Resources Act** – GNR 280 in March 2001



Section 3 - Environmental Planning.....

Reference Material continued

- **NEM: Integrated Coastal Management Act** (Act 24 of 2008)
- South African National Standard **SANS 19011:2003, ISO 19011:2002** Guidelines for quality and/or environmental management systems auditing
- National Development Plan – vision for 2030
- National Framework for Sustainable Development (July 2008)
- UN's Sustainable Development Goals
- Multilateral Environmental Agreements
- **Green Building Rating Tools**
- National **Veld and Forest Fire Act**, no 101 of 1998
- Guideline document to IEM Need and Desirability and Public Participation
- Notice 104 of 2018 – EAPASA registration authority recognition
- Notice 113 of 2018 – Procedure to follow in applying for environmental authorization for large scale electricity transmission & distribution development activities
- Notice 114 of 2018 – Procedure to follow in applying for environmental authorization for large scale wind and solar photovoltaic energy development activities
- GNR 350 of 13 April 2017
- DEA Guidelines on need & desirability
- GNR 267 of 2017 –WUL Procedure
- Government Gazette Notice 213 of 2018 Notice for adoption of the Integrated Environmental Management Plan of the Square Kilometer Array.



Section 3 - Environmental Planning.....

Environmental Management

Drafting of environmental management plans and compliance monitoring there against.

Aspects such as multilateral agreements SA is participating in.

- Environmental Management Plans & Compliance
 - Description of the activity that is taking place
 - Description of environmental impacts
 - Environmental impact severity (high, medium, low)
 - Environmental impact mitigation & how to reduce the severity
 - Who is responsible for mitigation actions
 - Reporting to project & construction team
 - Usually requirement of Environmental Authorization (ROD) to send copy to Department
 - Site Environmental Officer vs Independent Environmental Officer



Section 3 - Environmental Planning.....

Environmental Management

Drafting of environmental management plans and compliance monitoring there against.

Aspects such as multilateral agreements SA is participating in.

Multilateral agreements

- Kyoto/COP 17 (food security, carbon emissions, water scarcity)
- Transfrontier Parks
- Biodiversity/Protected area
- Etc.



Section 3 - Environmental Planning.....

Environmental Planning

Integrated Environmental Management, application of sustainable design principles.

- Integrated Environmental Management
 - Information Series 1: Screening
 - Information Series 2: Scoping
 - Information Series 3: Stakeholder engagement
 - Information Series 4: Specialist Studies
 - Information Series 5: Impact Significance
 - Information Series 6: Ecological Risk Management
 - Information Series 7: Cumulative Effects Assessment
 - Information Series 8: Cost Benefit Analysis
 - Information Series 9: Life Cycle Assessment
 - Information Series 10: Strategic Environmental Assessment



Section 3 - Environmental Planning.....

Environmental Planning

Integrated Environmental Management, application of sustainable design principles.

- Integrated Environmental Management (cont.)
 - Information Series 11: Alternatives in EIA
 - Information Series 12: Environmental Management Plans
 - Information Series 13: Review in EIA- link to attached file
 - Information Series 14: Environmental Auditing
 - Information Series 15: Environmental Impact Reporting
 - Information Series 16: Environmental Economics
 - Information Series 17: Environmental Reporting
 - Information Series 18: Environmental Assessments
 - Information Series 19: Trade Agreements
 - Information Series 20: Linking EIA's and EMS's
 - Information Series 21: Environmental Monitoring



Section 3 - Environmental Planning.....

Impact Assessment

Understanding and implications of the listed activities as set out in Environmental Legislation

- Know the listed activities
- Know when you require a **Basic Assessment vs an Environmental Impact Report**
- Know when to include a specialist
- Be aware that if you do this kind of work you need to now also be registered with the EAPASA



Section 3 - Environmental Planning.....

Rehabilitation

Aspects of rehabilitation associated with the change in the landforms, appropriate soil preparation, erosion protection, planting, etc.

- Rehabilitation related to:
 - Stream beds
 - Wetlands
 - Road reserves
 - Servitudes
 - Mining activities
 - Slopes
 - Attenuation structures
 - Dunes



Section 3 - Environmental Planning.....

Government Legislation, Regulations, Policies & Guidelines

Pertains particularly to the Environmental related aspects at National, Provincial and Local level. e.g. biodiversity, protect areas, protected trees, alien vegetation.

- Municipal by-laws
- Other legislative requirements such as:
 - Heritage
 - Protected trees
 - Alien vegetation
 - Biospheres
 - Air Quality Act
 - Waste Act
 - Mineral and Petroleum
 - Aspects related to the Water Act
 - Water use licenses
 - Bore holes
 - Open water bodies
 - Rivers

- What is the essence of Legislation?
- How does it affect you as landscape architect/technologist?
- Advise to client
- Design constraints / opportunities



Section 3 - Environmental Planning.....

Green Buildings

Relates specifically to the landscape architectural contribution to such projects.

- Background
 - Team effort that affects all role players
 - Integration of design elements e.g. grey water to irrigation
 - Specific reporting requirements
 - Specific documents to substantiate certain claims
 - Easier to design 'green building' from the start than to retrofit



Section 3 - Environmental Planning.....

Green Buildings

Relates specifically to the landscape architectural contribution to such projects.

Man 5 – Building User's Manual

While the landscaping does not obtain 1 credit on its own, a section is to be written for this manual regarding the maintenance of the landscaping as well as the operation and maintenance of the irrigation system. It will also address the environmental strategy, monitoring and targets, waste policy etc.

Man 6 – Environmental Management

One point = contractor implements a project specific environmental management plan
One point = contractor has valid ISO 14000 (EMS) accredited prior to and throughout the project.

Man 7 – Waste Management

Main aim is the minimisation of the amount of construction waste going to disposal.

Total of 3 points are available: 1 point – 30%, 2 points – 50%, 3 points - 70% of waste to reuse or recycling. Must retain all documentation to prove as such



Section 3 - Environmental Planning.....

Green Buildings

Relates specifically to the landscape architectural contribution to such projects.

Wat 3 – Landscape Irrigation

Main aim is to reduce the consumption of potable water for landscape irrigation.

1 point – potable water consumption reduced by 50%

2 points – potable water consumption reduced by 90% or plants chosen requiring no additional watering once established.

If there is no landscaping or the total landscape represents less than 1% of the total site area these points are not applicable and excluded from the points available.

Mat 3 – Reused materials

1 point is awarded where at least 1% of the project's total contract value is represented by reused products/materials.



Section 3 - Environmental Planning.....

Green Buildings

Relates specifically to the landscape architectural contribution to such projects.

ECO – conditional requirement

Development is not on land of high ecological value as described in the rating tool. Assessors will make final ruling on project's compliance.

Eco 1 – Topsoil

1 point = where topsoil impact by construction works is separated and protected from degradation, erosion or mixing fill or waste.

And where at completion protected topsoil is spread over impacted areas to a minimum depth of 200mm or 75 % of all protected topsoil remains on site. And where protected topsoil remaining on site is productive.

Point is not applicable where no topsoil was impacted on by construction works.

Eco 4 – change of ecological value

To encourage and recognize developments that maintain or enhance the ecological value of site. 4 points claimable with conditions. Need to access the ecological value prior to and after construction.

Calculated with the assistance of the Ecological value calculator.



Section 3 - Environmental Planning.....

1. ASSIGNMENT AND OBJECTIVES

The purpose of the assignment is to apply the material in the reference list, which is not all material necessarily, with the requirements of the SACLAP's core competency table within the given context of a project proposal.

The candidate is to imagine, that a Client has approached him/her to provide advice and input regarding the environmental characteristics of the site and how this affects the decision making process and ultimately the design.

The candidate is to:

- Be analytical in the approach,
- Outline the environmental characteristics that are to be considered, why and how the design is to reflect the considerations
- Provide guidance as to what is required in terms of permits and approvals and why.
- Shortfalls / missed opportunities of the proposed development are also to be highlighted
- Writing of a report



ENVIRONMENTAL ASSIGNMENT

**SUBMISSION NO LATER THAN
31 MAY 2019**

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DELIVERABLES

- Document
- Mentor to sign off on your involvement in the assignment and you are to include an affidavit.



Questions.....

