Office Building Construction

ABLE Construction

Project Sponsor: Brenda Kawana

Project Manager(s): Mohammad Abaan, Silas Hall, Shubham Rangra,

Telouwn Makope

Date: 1st August 2024

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1 Introduction

1.1 Background

ABLE construction is a company that deals with the set up and construction of buildings for multinational companies. They gain the approval of the council before starting any construction.

TSSA is a project management team which has been appointed for ABLE Construction's latest endeavour: building a new two-story office building for a multinational organization in Palmerston North. As a project management team, TSSA will develop and execute a comprehensive Project Management Plan (PMP) to ensure the successful delivery of this office building. Their responsibilities will include:

- Detailed project planning and scheduling
- Regular communication with the project sponsor to obtain information and clarify assumptions
- Coordination of all project activities and stakeholders
- Budget management and cost control
- Quality assurance and risk management
- Oversight of contractors hired for specialist tasks
- The successful handover of the completed office building

TSSA Project Management aims to deliver this project on time, within budget, and to the highest standards of quality.

1.2 Business Needs

ABLE Construction would like a 2-story office building for multinational organization to accommodate employees and create a friendly environment suited for work. The project should start on 22nd July and is required to finish by 3rd November 2024. The building is required to have the following; 12 offices both open and closed, each floor should have a kitchen/lunch area, the

necessary number of washrooms and few showers, reception area, canteen, each floor should have a conference/board room, and enough storage for office equipment.

- Make 12 offices (combination of both open and closed offices)
- Make A kitchen and lunch area on each floor
- Make a few washrooms with showers
- Make a reception and canteen
- Onsite Parking
- Storage area for office equipment
- Make sure the building is up to the safety and quality standards required by the council

2 Scope

- Define project scope and objectives
- Budget planning
- Project scheduling
- Resource planning
- Risk management planning
- Quality management planning
- Communication planning
- Design and Engineering
- Procurement planning
- Permitting and Approvals

2.1 Objectives

- Complete construction of a two-storey office building by 3rd November 2024.
- Ensure the building includes all specified facilities within the allocated budget of \$2,000,000
 NZD.
- Find contractors for specialised tasks such as setting up electricity and water connections in the building (Time)

- Planning the internal layout of the building (Time)
- Maintain high standards of safety and compliance with all relevant regulations. (Time)
- Minimize disruptions to nearby businesses and residents during construction. (Time)
- Stakeholder satisfaction is achieved, with minimal conflicts or concerns raised during the project. (Time)

2.2 Deliverables

A fully constructed and functional building meets the requirements given.

- Site Preparation and Core Construction
- Interior Construction
- External Works
- Testing and Commissioning
- Handover and Project Closure

2.3 Success Criteria

- The project is completed by the end date of 3rd November 2024.
- The total expenditure is not exceeded (the allocated budget of \$2,000,000 NZD).
- The building meets all local building codes and regulatory standards.
- Layout and construction of the Internal rooms of the building is done according to requirements.
- All materials and services are procured on time and within budget, with no delays to the construction timeline.
- Zero accidents or safety incidents during the construction phase.
- The project complies with all environmental regulations, and the site is left clean and safe
 after construction. The building passes all required inspections and meets or exceeds industry
 quality standards.

2.4 Exclusions

- Procurement, installation, and arrangement of furniture, office equipment, and fixtures
- Maintenance and operational costs post-construction.
- Installation and setup of IT infrastructure, including networking, telecommunication systems, and audio-visual equipment.
- The installation of security systems such as CCTV, access control, and alarms.
- Training sessions or orientation for the client's staff on how to use the building facilities or systems are not included.

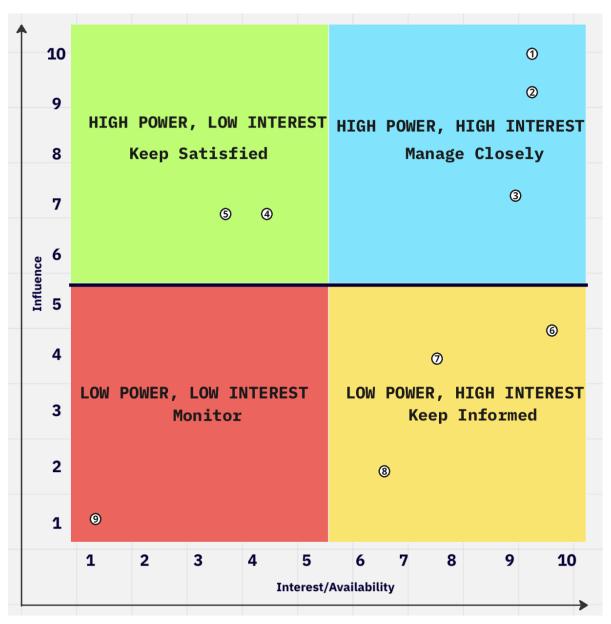
2.5 Restrictions

- The budget of \$2,000,000 NZD given to complete the whole project
- The timeframe for completing the project: 22nd July 2024 to 17th November 2024. (end jan 2025)
- A kitchen/lunch area and a conference room must be on each floor of the building
- Each office needs to be large enough to accommodate 3 people at the same time

2.6 Assumptions

- Land is already procured
- Authority to build
- Land needs work

3 Stakeholder Management Plan and Analysis



HIGH POWER, HIGH INTEREST (Manage Closely)

- 1. Owner- Cares a lot about how the project turns out since it affects their investment. Keep them in the loop with regular updates and involve them in key decisions.
- 2. Project Sponsor Makes sure the project stays on track with its goals, budget, and timeline. It's important to keep them involved in decisions and update them regularly.

3. Board Members- have a strong influence on the project and are deeply invested in its success. Keeping them informed and involved in major decisions will ensure their continued support.

HIGH POWER, LOW INTEREST (Keep Satisfied)

- 4. City Council- has the power to impact the project but may not be interested in daily details. Keep them satisfied with occasional updates, focusing on how the project aligns with community goals.
- 5. Regulatory Body- Ensures that the project follows laws and regulations. While they may not need frequent updates, it's crucial to meet their requirements and keep them satisfied with compliance reports.

LOW POWER, HIGH INTEREST (Keep Informed)

- 6. Project Team Members- Highly involved in the day-to-day work. Keep them informed about the project's progress and any changes to make sure they stay motivated and aligned with the goals.
- 7. Staff Members- Highly involved in the day-to-day work. Keep them informed about the project's progress and any changes to make sure they stay motivated and aligned with the goals.
- 8. Suppliers- Provide essential materials or services. Keep them informed about timelines and any changes that could affect their role in the project.

LOW POWER, LOW INTEREST (Monitor)

9. Community- May be affected by the project but isn't deeply involved. Keep an eye on their concerns, but only provide updates if something directly impacts them.

3.1 Stakeholder Register

#	Stakeholder	Internal/	Involvement	Contact
		External		
	Brenda Kawana	Internal	Project	sam@ucol.ac.nz
			Sponsor	
	Telouwn Makope	Internal	Project	24372680@studentmail.ucol.ac.nz
			Manager	
	Rana Mohammad	Internal	Project	22362311@studentmail.ucol.ac.nz
	Abaan Noon		Manager	
	Silas Hall	Internal	Project	23364977@studentmail.ucol.ac.nz
			Manager	
	Shubham Rangara	Internal	Project	20340432@studentmail.ucol.ac.nz
			Manager	
	ABLE Construction	External	Customer	Info@able.com
	Palmerston North City	External	Regulatory	info@pncc.govt.nz
	Council		Body	
	WorkSafe	External	Regulatory	Info@worksafe.gov.nz
			Body	
	Environmental	External	Regulatory	Info@epa.gov.nz
	Protection Authority		Body	
	Suppliers	External	Provision of	sales@manawatuitm.co.nz
			materials	
	Contractors	Internal	Execution of	nik@islesconstruction.co.nz
			project	
	Architects	Internal	Design	palmerstonnorth@teamarchitects.co.nz

	Community	External	External	-
			impact	

4 Schedule Baseline

4.1 Milestone Schedule

Project Milestone	Start Date	Completion Date
Site Preparation	22 July 2024	13 August 2024
Core Construction	14 August 2024	21 November 2024
Interior Work	22 November 2024	09 January 2025
External Construction	22 November 2024	12 December 2024
Testing and Commissioning	13 December 2024	16 January 2025
Handover to Client	17 January 2025	21 January 2025

Three-Point Estimation Method

To estimate the activity's, we used the Three-point method, this method used by breaking down each task into 3 scenarios.

Most likely(tm)

Activity cost based on a realistic scenario, which the outcome should resemble

Optimistic(to)

Activity cost based on a best-case scenario

Pessimistic(tp)

Activity cost based on the worst-case scenario

Estimate = to + 4tm + tp

10

With a budget of 2,000,000 we estimate the overall cost of the project is going to be \$1,891,520 with the remaining amount of \$108,480

4.2 Project Cost Breakdown

Deliverable	Costs Involved	Estimated Cost
Site Preparation		
Land Clearing	\$145,600	
Land Grading	\$72,000	\$226,900
Land Cleared for	\$9,300	
construction		
Core Construction		
• Foundation	\$244,800	
Structural Framing	\$201,600	
Exterior Walling	\$72,800	
• Roofing	\$124,800	\$799,440
• Electrical	\$42,000	
• Plumbing	\$28,000	
 Insulation 	\$72,000	
HAV Installation	\$13,440	
Interior Construction		
Interior Walling	\$156,000	
Office Open	\$145,600	
Offices Closed	\$31,200	
Kitchen/Lunch Area on Each	\$18,016	
Floor		
 Washroom 	\$9,012	\$433,416
• Showers	\$6,008	
• Reception	\$16,980	
Canteen Area	\$26,800	
Conference/Board Room on	\$13,400	
each floor		
Storage Rooms	\$10,400	

External Works		
Parking Area	\$72,800	
 Landscaping 	\$19,360	\$96,840
External Lighting	\$4,680	
Testing and Commissioning		
Electrical Test	\$5,500	
Plumbing Test	\$4,800	\$13,226
HAVAC Test	\$2,680	
Safety Inspections	\$246	
Hand over		
Final Walkthrough with	\$0	
Sponsor		\$0
Handover Documentation	\$0	
Project Closure Meeting	\$0	

5 Quality Management Plan (QMP)

The Quality Assurance Table for ABLE Construction provides an overview of project activities, ensuring they meet quality standards and project requirements safely and effectively.

Deliverable	Internal Checks	External Checks
Site Preparation		
Land Clearing	Land Clearing: Ensure	Conduct a third-party
Land Grading	that land clearing is	inspection to ensure
Land Cleared for	thorough and follows	environmental
construction	specifications,	compliance in land
	removing all necessary	clearing.
	vegetation and debris.	Confirm grading
	Land Grading: Check	standards with
	that grading levels are	external surveyors,

	correct and align with	including drainage and
	site plans.	erosion prevention.
	Land Cleared for	Review external
	Construction: Verify	reports for soil stability
	that the area is fully	to ensure construction
	prepped and	site readiness.
	compliant for	
	construction, with	
	proper site boundaries	
	marked.	
Core Construction	• Foundation: Inspect	Conduct independent
 Foundation 	depth, alignment, and	testing of foundation
Structural Framing	materials to confirm	strength, soil
 Exterior Walling 	they meet design	settlement, and
• Roofing	specs.	alignment.
• Electrical	Structural Framing:	Have a structural
 Plumbing 	Verify framing	engineer review
Insulation	alignment, material	framing to verify
HAV Installation	strength, and	stability and safety.
	adherence to	 Perform external
	structural plans.	audits on walling and
	Exterior Walling:	roofing for durability
	Ensure walling meets	and weather
	design, is secure, and	resistance.
	matches insulation	Confirm electrical and
	requirements.	plumbing installations
	Roofing: Inspect	meet local codes with
	roofing materials,	certified inspectors.
	alignment, and	Perform external
	waterproofing.	insulation assessment
	• Electrical: Review	for thermal efficiency
	wiring plans, conduit	and environmental
		standards.
The second secon	t and the second	

placement, and safety
codes.

- Plumbing: Check pipe installation, materials, and alignment with water flow plans.
- Insulation: Confirm insulation placement, material specifications, and thermal efficiency.
- HAV Installation:
 Ensure that HVAC
 systems are installed
 per plans and
 functionality specs.

Obtain third-party
 HAVC performance
 testing for energy
 efficiency and
 compliance.

Interior Construction

- Interior Walling
- Office Open
- Offices Closed
- Kitchen/Lunch Area
 on Each Floor
- Washroom
- Showers
- Reception
- Canteen Area
- Conference/Board
 Room on each floor
- Storage Rooms

- Interior Walling:
 Check placement,
 alignment, and
 soundproofing as per design.
- Office Areas (Open & Closed): Verify that open and closed office spaces align with layout, accessibility, and space utilization.
- Kitchen/Lunch Area on Each Floor: Inspect kitchen installations, water flow, and electrical hookups.
- Washrooms & Showers: Ensure plumbing, water pressure, and tile installation meet standards.
- Reception: Confirm reception area is set up as per design with appropriate access.

- External inspections for walling for durability and safety standards.
- Confirm that kitchen and lunch areas meet health and safety standards.
- Verify washrooms are in compliance with local plumbing and safety codes.
- Conduct external checks for electrical, AV, and accessibility requirements in board rooms.

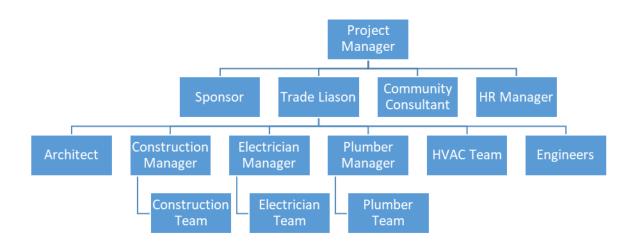
	 Canteen Area: Inspect canteen equipment, seating, and flow efficiency. Conference/Board Rooms on Each Floor: Verify layout, electrical outlets, and AV installations in each room. Storage Rooms: Confirm space allocation and shelving installations meet requirements. 	
 External Works Parking Area Landscaping External Lighting 	 Parking Area: Check surface grading, markings, and signage for adherence to design. Landscaping: Inspect landscaping layout, plant selection, and irrigation. External Lighting: Ensure lighting placement, brightness levels, and energy efficiency. 	 Conduct external assessment of parking design, including accessibility and traffic flow. Perform environmental check on landscaping for ecological compliance. Verify that lighting meets local standards and energy regulations.
 Electrical Test Plumbing Test HAVAC Test Safety Inspections 	 Electrical Test: Test electrical systems for functionality, load capacity, and safety compliance. Plumbing Test: Ensure water pressure, drainage, and leak-proofing. HVAC Test: Confirm heating and cooling systems function within set parameters. Safety Inspections: Perform in-depth checks of safety equipment, exits, and fire alarms. 	 Independent testing on electrical systems to confirm compliance with standards. External audit of plumbing systems to ensure durability and code compliance. HVAC assessment by a certified third party for energy compliance. External safety audit for building code adherence.

Hand over		•
 Final Walkthrough with Sponsor Handover Documentation Project Closure Meeting 	 Final Walkthrough with Sponsor: Confirm all aspects of the project meet the sponsor's expectations. Handover Documentation: Ensure all documentation, including permits, licenses, and warranties, is prepared. Project Closure Meeting: Verify that all final deliverables are signed off and approved by stakeholders. 	 Obtain sponsor's signature on all necessary documents as proof of handover. Have an external review of final documentation to confirm completeness. Collect final third-party approval for the project's closure and client satisfaction.

Quality Checklist

Deliverable /	Peer Review	Sponsor Sign off
Component		
Site Preparation and Core	✓	✓
Construction		
Interior Construction	✓	✓
External Works		
Testing and Commissioning		
Handover and Project Closure		
Resource Managment Plan	✓	✓
Project Plan	✓	1

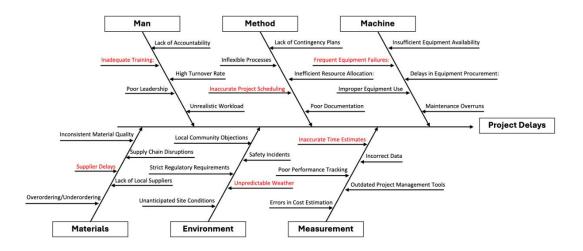
6 Resource Management Plan

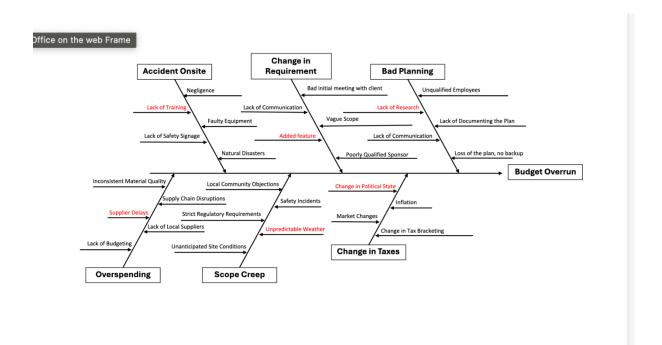


RACI Chart

R = Responsible; A = Accountable; C = Consult; I = Inform

Section	Telouwn	Silas	Shubham	Abaan
Site Preparation	R	Α	С	1
Core Construction	А	R	1	С
Interior Construction	1	Α	А	R
External Works	А	I	R	А
Testing and Commissioning	1	R	А	С
Handover	1	А	R	1





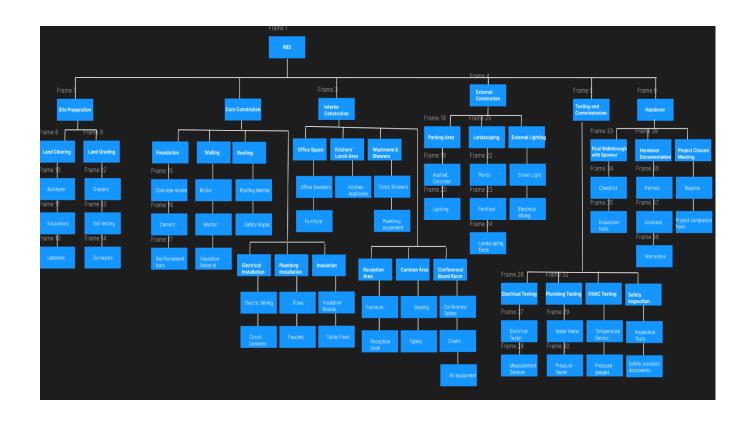
6.1 Roles & Responsibilities Table

Role	Responsibility	When Required
Project Manager	Oversee the construction project/planning	Site Preparation
	and assign responsibilities/tasks to	Testing and
	subordinates. Approve Land grading, safety	Commissioning
	inspections, Final walkthrough, Handover	Handover

	documentation and carry out Project	
	· · ·	
	meetings.	
Sponsor	Keep updated and suggest improvements	Handover
	with the construction project progression.	
Trade Liaison	Communicate with the public and other	Site Preparation
	organisations impacting the construction	Testing and
	project. Approve Land grading, safety	Commissioning
	inspections, Final walkthrough, Handover	Handover
	documentation and carry out Project	
	meetings under the Project Manager.	
Community	help plan, implement, and evaluate the	Site Preparation
Consultant	construction project stages. Assist in Land	Testing and
	grading, safety inspections, Final	Commissioning
	walkthrough, Handover documentation and	Handover
	carry out Project meetings under the Project	
	Manager.	
HR Manager	Handle staff disputes/issues and hire	Site Preparation
	required staff and workers.	Core Construction
		Interior Construction
		External Works
Architect	Work on the landscaping.	External Works
Construction Manager	Handle the construction workers and the	Site Preparation
	building construction. Carry out land	Core Construction
	clearing, build foundation, structural	Interior Construction
	framing, exterior walling, roofing, Insulation,	External Works
	interior walling, rooms, parking and lighting	
Construction Team	Carry out land clearing, build foundation,	Site Preparation
Member	structural framing, exterior walling, roofing,	Core Construction
	Insulation, interior walling, rooms, parking	Interior Construction
	and lighting	External Works

Electrician Manager	Handle the Electrician team and electrical	Core Construction
	installations in the building. Install Electrical	Interior Construction
	wiring, electricity in the rooms and testing	Testing and
	the connections in the building	Commissioning
Electrician Team	Install Electrical wiring, electricity in the	Core Construction
Member	rooms and testing the connections in the	Interior Construction
	building	Testing and
		Commissioning
Plumbing Manager	Handle water connections and bathroom	Core Construction
	equipment installations as well as a	Interior Construction
	plumbing test. Making sure the plumbing	Testing and
	team follows correct procedures.	Commissioning
Plumbing Team	Handle water connections and bathroom	Core Construction
Member	equipment installations as well as a	Interior Construction
	plumbing test.	Testing and
		Commissioning
HVAC Team	install various HVAC equipment and	Core Construction
	commercial refrigeration systems, including,	Testing and
	heating and air conditioning systems, heat	Commissioning
	pumps, ventilation systems, and	
	refrigeration units as per the need of the	
	project.	
Engineer	Carry out the foundation construction and	Core Construction
	structural farming	

6.2 Resource Breakdown Structure



7 Communication

Refer to our diagram in appendix

7.1 Communication Register (CR)

Canadan	Decelor	VAII	Detection in the control of the cont	11	VAIII- man
Sender	Receiver	What	Detail	How	When

Project Manager	Sponsor Project Manager	Project Updates	Ongoing and completed stages of the project	Meetings	At the end of each project phase At the end of each
Sponsor	Project Manager	Suggestion and Improvements	Changes and improvements to the project and planning	Meetings	project phase
Trade Liaison	Construction Manager	Overall Construction	Discussing price dealings and how the construction will be carried out	Face-to- Face meetings	Site Preparation Core Construction Interior Construction External Works
Community Consultant	Project manager, Trade liaison, Sponsor, HR manager	Scheduling meetings	Helping decide project meeting date and times.	Email, phone calls	Each phase of the project
HR Manager	Construction staff	Recruitment	Recruitment process and work details	Interview and phone calls	Before the start of the Project
Construction Manager	Construction Team Member	Tasks	Construction tasks and rules/regulations to follow	Face-to- face Meetings	Site Preparation Core Construction Interior Construction External Works

8 Risks

8.1 Risk Register

Risk	Probabilit	Impact	Risk	Risk Response
Description	у	Perf –	Response	Reactive
	H-M-L	Cost- Time	Proactive	
Loss of	High	Low	Ensure all contracts have a	Call backup contractor to
Contractor			clause ensuring they	replace them. Assess
			provide a replacement.	workload not completed.
			Ensure there is a shortlist	Adjust plan accordingly.
			of backup contractors.	
Slip and fall	Medium	Medium	Install non-slip surfaces,	Assess damage, applying
hazards on			clear walkways, signage for	first aid. Call ambulance if
floors/stairs			wet floors. Ensure med-	necessary. Call
			kits are always available on	replacement if necessary.
			site.	
Severe	Low	High	Strengthening of building	Evacuate the building if it's
weather			exterior, installation of	unsafe Assess and address any
(storm,			sump pumps, emergency	immediate damage caused
flooding,			preparedness plans	by the storm or earthquake (e.g., broken
earthquake)				windows, flooding).
				- Engage emergency
				services for further
				assistance.
Budget	High	Med	Develop a comprehensive	If the budget is exceeded,
Overruns			budget, including	identify areas where funds
			contingency funds for	can be reallocated from
			unexpected costs.	lower-priority items to
				critical tasks.
Fire hazard	High	High	Ensure insurance covers	Evacuate the building immediately and call
			fire damage. Provide fire	emergency services.
			safety equipment onsite	Use fire extinguishers to contain small fires if safe
			and ensure staff are	to do so.

			trained on the fire safety	Perform fire damage
			procedures.	repairs after the incident.
Structural	Low	High	Hire qualified engineers	Evacuate Site, assess
Failure			with experience in similar	damage to building. Bring
			projects to work with	in engineers to design a
			architect.	plan to fix the issue
				moving forward.
Utility	Med	Low	Plan ahead with utility	Confer with Architect,
Relocations			companies to ensure all	Engineers, and the
			utility exit locations are	required contractors to
			known and agreed upon	move the outlet to the
			beforehand.	desired locations.
HVAC Failure	Low	Low	Install redundant HVAC	Have maintenance stuff on
			system if feasible.	call for urgent repairs.
			Regular preventive HVAC	Repair or replace HVAC
			maintenance.	Components as necessary

9 Procurement

9.1 Procurement Register

Activity	What	Why	When	Approved by
Number				
Task No.	Type of resource	Eg. Land clearing	execution	Project manager etc.
4	Fixed Cost/Service Builder fees	Land Grading	Site Preparation	Project Manager
5	Fixed Cost Building levy payment	Government Levies	Site Preparation	Project Manager

34	Fixed Cost/Service	Electrical Testing	Testing and	Project
	Electricians' fees		Commissioning	Manager,
				Electricians
35	Fixed Cost/Service	Plumbing Test	Testing and	Project
	Plumbers' fees		Commissioning	Manager,
				Plumbers
36	Fixed Cost/Service	HVAC Test	Testing and	Project
	HVAC Engineer		Commissioning	Manager,
	fees			HVAC
				Engineers
37	Fixed Cost/Service	Safety Inspection	Testing and	Project
	Building inspector		Commissioning	Manager
	fees			
3	Resource/Labour	Land Clearing	Site Preparation	Project
	Builders			Manager
7	Resource/Labour	Foundation	Core Construction	Project
	Engineers	Construction		Manager
	Builders			
11	Resource/Labour	Electrical wiring	Core Construction	Project
	Electricians			Manager
12	Resource/Labour	Plumbing	Core Construction	Project
	Plumbers			Manager
14	Resource/Labour	HVAC Installation	Core Construction	Project
	HVAC Engineers			Manager
30	Resource/Labour	Landscaping	External Works	Project
	Architects			Manager
	Builders			

9.2 Procurement Management Plan

In this project, we aim to efficiently manage the procurement process for constructing a high-quality office building while optimizing costs and ensuring timely delivery. The primary goal of the

procurement management plan is to secure all necessary resources—including materials, labour, and equipment—through a combination of contracting and direct purchasing. Our procurement approach prioritizes not only the budget and schedule but also the quality and reliability of materials and labour sources.

The procurement plan will address all stages of construction, from foundational work to finishing touches, ensuring that every element of the structure meets design specifications and safety standards. The objectives of this plan include identifying suppliers and contractors that align with our quality and timeline requirements, managing contracts effectively, and balancing cost against the benefits of outsourcing certain tasks.

Procurement Breakdown:

We will be hiring contractors that agree to contracts that cover the cost of materials used in the construction of the office. While this allows us to complete our project faster, we need to strictly monitor the quality of resources sourced by contractors.

To avoid being in a situation where the contracted company cannot supply the agreed upon resources, we will opt for contracting with larger organisations such as Naylor Love. We have multiple fixed costs, mainly stemming from the need for many tests and government levies.

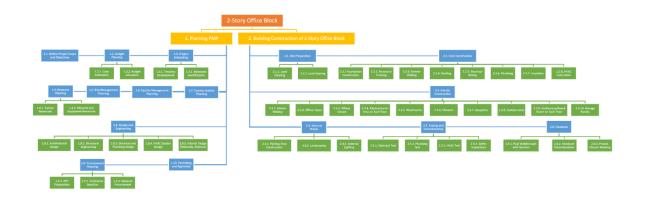
Make VS Buy Analysis of Structural Framing Sections:

Buying a structural framework prefabricated to our designs will save us a lot of time early on. But this is more expensive than buying full lengths and assembling them onsite.

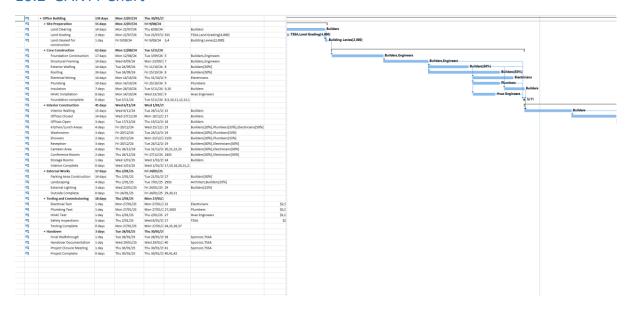
Seeing as we are currently nearing our budget on this project and need to keep excess available in case of emergencies, we will be purchasing full lengths and having our builders construct them onsite.

10 Appendices

10.1 Work breakdown Structure



10.2 GANTT Chart



Project Change Request Form

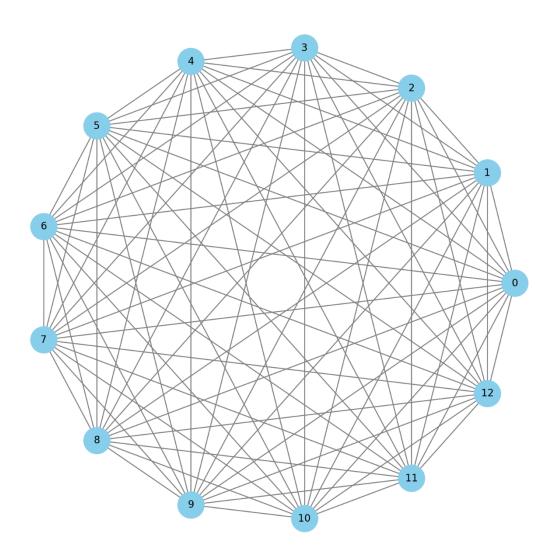
	, ,	- 1104000110				
Date of Request	Date of Request Requested by Change Request No.					
Part	of the project change	relates to (please	tick one):			
Scope	Schedule	Quality	Risk			
55575		Quanty				
	Change Requ	est Description				
Change Description:						
Reason for Request ch	ange:					
Priority (please circle o	one):					
High Medium	Lo	w				
Draiget hangfit from el	22050					
Project benefit from c	iange.					
Possible outcomes of	not implementing ch	anges:				
Possible alternative to	change:					
Project Manag	er Signature:	Project S	Sponsors Signature:			

10.4 Cost Breakdown

Name	Cost
Land Clearing	\$145,600.00
Land Grading	\$72,000.00
Land cleared for construction	\$9,300.00
Foundation Construction	\$244,800.00
Structural Framing	\$201,600.00
Exterior Walling	\$72,800.00
Roofing	\$124,800.00
Electrical Wiring	\$42,000.00
Plumbing	\$28,000.00
Insulation	\$72,800.00
HVAC Installation	\$13,440.00
Foundation complete	\$0.00
Interior Walling	\$156,000.00
Offices Closed	\$145,600.00
Offices Open	\$31,200.00
Kitchen/Lunch Areas	\$18,016.00
Washrooms	\$9,012.00
Showers	\$6,008.00
Reception	\$16,980.00
Canteen Area	\$26,800.00
Conference Rooms	\$13,400.00
Storage Rooms	\$10,400.00

Interior Complete	\$0.00
Parking Area Construction	\$72,800.00
Landscaping	\$19,360.00
External Lighting	\$4,680.00
Outside Complete	\$0.00
Electrical Test	\$5,500.00
Plumbing Test	\$4,800.00
HVAC Test	\$2,680.00
Safety Inspections	\$246.00
Testing Complete	\$0.00
Final Walkthrough	\$0.00
Handover Documentation	\$0.00
Project Closure Meeting	\$0.00
Project Complete	\$0.00
Total:	\$1,570,622.00

10.5 Communication Channel Diagram



10.6 Fishbone Diagram

