

1. THE WORK HEALTH AND SAFETY ACT 2011 REQUIRES DESIGNERS PROVIDE A WRITTEN REPORT OUTLINING THE HAZARDS IDENTIFIED BY THE DESIGNER, ACTIONS TAKEN TO REDUCE THOSE RISKS AND ANY OTHER REMAINING HAZARDS.
2. HAZARDS OUTLINED IN THIS REPORT ARE FOR STRUCTURAL AND CIVIL ENGINEERING IN FUTURE, WHICH HAVE BEEN IDENTIFIED AS FAR AS REASONABLE AND PRACTICABLE. OTHER DESIGNERS MAY IDENTIFY ADDITIONAL HAZARDS AND RELEVANT PERSONS REVIEW ALL DESIGNERS' SAFETY IN DESIGN REPORTS.
3. THE BUILDING OWNER, CLIENT AND CONTRACTOR MUST ENSURE THAT ALL RELEVANT PERSONS ARE MADE AWARE OF THE PROVISIONS OF THE REPORT.
4. THIS REPORT APPLIES TO ALL STAGES OF THE STRUCTURE LIFE INCLUDING CONSTRUCTION, MAINTENANCE, USE AND DEMOLITION.
5. RISKS NOTED AT EACH LIFECYCLE STAGE MAY APPLY TO OTHER STAGES. RELEVANT PERSONS SHALL REVIEW ALL STAGES.

1. THE PURPOSE OF THIS STRUCTURE IS TO BE A PEDESTRIAN WALKWAY.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS LISTED ON THE FORM 15.
3. THE FOLLOWING TESTING HAS BEEN UNDERTAKEN:
 - GEOTECHNICAL REPORT REF No. 30033370 BY SMEC DATED 17 MARCH 2020

HAZARDS ARE CONTROLLED THROUGH RISK CONTROL MEASURES AS FOLLOWS:

ELIMINATION	- REMOVE THE HAZARD THROUGH DESIGN MEASURES
ENGINEERING	- PROVIDE AN ENGINEERING SOLUTION TO CONTROL THE RISK
ADMINISTRATION/ CODES OF PRACTICE	- USE OF ADMINISTRATION CONTROLS TO INFLUENCE PEOPLE
	• CURRENT CODES OF PRACTICE ARE AVAILABLE AT WORKSAFE.QLD.GOV.AU

HAZARDS		CONTROL MEASURE	CONTROL			PERSON RESPONSIBLE FOR CONTROL	ADDITIONAL NOTES
			ELIMINATION	ENGINEERING	ADMINISTRATION/ CODES OF PRACTICE		
FALLS, SLIPS AND TRIPS	UNEVEN SURFACES	WHERE APPLICABLE, LEVELS DESIGNED TO MINIMISE UNEXPECTED STEPS AND FALLS		✓		ENGINEER	
	EXPOSED REINFORCING BARS	PROVIDE HOOKS TO TOP OF BARS WHERE POSSIBLE		✓		ENGINEER	
LOADS ON PARTIAL STRUCTURES		PROVIDE SAFETY CAPS TO UNHOOKED BARS			✓	CONTRACTOR	REFER CODE OF PRACTICE
		ENSURE DESIGN LOADS ARE NOT APPLIED TO PARTIALLY CONSTRUCTED STRUCTURE			✓	CONTRACTOR	REFER CODE OF PRACTICE
		WHERE POSSIBLE, DESIGN STRUCTURE FOR PARTIALLY CONSTRUCTED STATE		✓		ENGINEER	
		CONTRACTOR MUST CONSULT ENGINEER IF DESIGN LOADS WILL BE APPLIED TO PARTIAL STRUCTURES			✓	CONTRACTOR	REFER CODE OF PRACTICE
		TEMPORARILY PROP STRUCTURES AS REQUIRED DURING CONSTRUCTION			✓	CONTRACTOR	REFER CODE OF PRACTICE
CRUSHING COLLAPSE OF STACKED MATERIALS	HEAVY CONSTRUCTION MATERIALS	PROVIDE EXCLUSION ZONES WHEN MOVING MATERIALS, ENSURE MATERIALS ARE STABLE BEFORE MOVING PLANT			✓	CONTRACTOR	ENSURE PERSONEL, EQUIPMENT AND MACHINERY CANNOT INTERACT WHEN MOVING HEAVY MATERIALS
SERVICES	RUPTURE OF SERVICE, POSSIBLE ELECTROCUTION	IDENTIFY AND DOCUMENT EXISTING SERVICES			✓	ENGINEER/ARCHITECT	WHERE KNOWN, EXISTING SERVICES HAVE BEEN NOTED ON PLANS
		DIAL BEFORE YOU DIG			✓	CONTRACTOR	
		PROVIDE LOAD PATH AROUND SERVICES		✓		ENGINEER	
	OVERHEAD POWERLINES	ISOLATE SERVICE PRIOR TO CONSTRUCTION	✓			CONTRACTOR	REFER CODE OF PRACTICE
		ENSURE ADEQUATE CLEARANCE TO OVERHEAD POWERLINES			✓	CONTRACTOR	CONTRACTOR TO CONTACT SERVICE PROVIDER AND FOLLOW APPROPRIATE PROCEDURES AND CODE OF PRACTICE
		ENSURE APPROPRIATE SERVICE PROVIDERS ARE NOTIFIED AND HAZARD FLAGGING IS INSTALLED			✓	CONTRACTOR	
EARTHWORKS	WORK NEAR SHAFTS OR EXCAVATIONS	WHERE POSSIBLE, DESIGN FOR INSTALLATION WITHOUT ENTERING EXCAVATION	✓			ENGINEER	
		WHERE POSSIBLE, PROVIDE EXCAVATION SIDE SUPPORT, OR BENCHES/BATTERS		✓		ENGINEER/CONTRACTOR	REFER CODE OF PRACTICE
		CREATE EXCLUSION ZONES AROUND EXCAVATION			✓	CONTRACTOR	REFER CODE OF PRACTICE
	EROSION AND SEDIMENT CONTROL	COMPLY WITH EROSION AND SEDIMENT CONTROL PLAN			✓	CONTRACTOR	
TRAFFIC MANAGEMENT	WORK INVOLVING PUBLIC ROADWAYS, RAILWAYS OR SHIPPING LANES	PROVIDE A TRAFFIC MANAGEMENT PLAN WHERE APPLICABLE		✓		ENGINEER	A TRAFFIC MANAGEMENT PLAN WAS NOT PREPARED FOR THIS PROJECT
		PROVIDE OFF STREET CARPARKING, ADEQUATE SITE ACCESS AND MATERIAL STORAGE AREAS			✓	CONTRACTOR	
WATER BODIES	ELECTROCUTION	AVOID ELECTRICAL WORK NEAR WATER BODIES			✓	CONTRACTOR	
PLANT	OVERTURNING/COLLISION	FOLLOW PROVISIONS OF CODE OF PRACTICE			✓	CONTRACTOR	REFER CODE OF PRACTICE
	LOADS ON STRUCTURE OR EARTHWORKS	EXCLUDE PLANT FROM EXCAVATION/RETAINING STRUCTURE/BATTER ZONE OF INFLUENCE			✓	CONTRACTOR	REFER CODE OF PRACTICE
		DESIGN STRUCTURE FOR APPROPRIATE PLANT LOADS		✓		ENGINEER	
	COLLISIONS	PROVIDE EXCLUSION ZONES AROUND OPERATING PLANT			✓	CONTRACTOR	ENSURE PERSONNEL, EQUIPMENT AND MACHINERY CANNOT INTERAC WHEN MOVING HEAVY MATERIALS. REFER CODE OF PRACTICE

HAZARDS		CONTROL MEASURE	CONTROL			PERSON RESPONSIBLE FOR CONTROL	ADDITIONAL NOTES
			ELIMINATION	ENGINEERING	ADMINISTRATION/ CODES OF PRACTICE		
MATERIAL SELECTION AND DESIGN	MATERIAL DURABILITY	SELECT MATERIALS WHICH REQUIRE MINIMAL MAINTENANCE DURING DESIGN LIFE		✓		ENGINEER/ARCHITECT	
	LOADS ON STRUCTURE	DESIGN SURFACE FOR APPROPRIATE MAINTENANCE LOADS - ELEVATED WORK PLATFORMS ETC.		✓		ENGINEER	
		WHERE POSSIBLE PROVIDE LEVEL WORKING SURFACE FOR MAINTENANCE		✓		ENGINEER/ARCHITECT	

HAZARDS		CONTROL MEASURE	CONTROL			PERSON RESPONSIBLE FOR CONTROL	ADDITIONAL NOTES
			ELIMINATION	ENGINEERING	ADMINISTRATION/ CODE OF PRACTICE		
GENERAL ARRANGEMENT	TYING INTO EXISTING INFRASTRUCTURE	ENSURE NEW WORKS TIE INTO EXISTING AS PER CURRENT DESIGN STANDARDS WHERE ABLE. IF UNABLE, ENSURE CONSISTENCY WITH SURROUNDING ENVIRONMENT AND ENSURE RESIDUAL RISK IS CONVEYED TO THE STAKEHOLDER.		✓		ENGINEER	
PAVEMENT DETERIORATION	ROUTINE AND PREVENTATIVE MAINTENANCE	ENSURE SCHEDULED MAINTENANCE WORKS ARE IN ACCORDANCE WITH STANDARD MAINTENANCE PRACTICES BUT ARE AT LEAST SUFFICIENT TO MAINTAIN THE SHAPE, PROFILE AND AMENITY OF THE PAVEMENT.			✓	MAINTENANCE CONTRACTOR/ASSET OWNER	WHOLE LIFE COSTS MAY BE HIGHER IF PROJECT CONSTRAINTS ARE IN PLACE
DRAINAGE STRUCTURES	ROUTINE AND PREVENTATIVE MAINTENANCE	ENSURE SCHEDULED MAINTENANCE WORKS ARE IN ACCORDANCE WITH STANDARD MAINTENANCE PRACTICES FOR DRAINAGE BUT ARE AT LEAST SUFFICIENT TO MAINTAIN THE HYDRAULIC PERFORMANCE OF DRAINAGE STRUCTURES AND PREVENT PIPING AND/OR EROSION OF TRENCH BACKFILL			✓	MAINTENANCE CONTRACTOR/ASSET OWNER	ENSURE MAINTENANCE IS SCHEDULED APPROPRIATELY
FALLS, SLIPS AND TRIPS	UNEVEN SURFACES	WHERE APPLICABLE, LEVELS DESIGNED TO ELIMINATE UNEXPECTED STEPS AND FALLS		✓		ENGINEER/ARCHITECT	
	SLIPPERY SURFACES	PROVIDE ADEQUATE DRAINAGE TO ALL SURFACES		✓		ENGINEER/ARCHITECT/CONTRACTOR	REFER CODE OF PRACTICE
	ELEVATED PATHS AND WALKWAYS	PROVIDE ADEQUATE BALUSTRADES		✓		ENGINEER/CONTRACTOR	COMPLY WITH PROVISIONS OF ACCESS STANDARDS/REGULATIONS
TRAFFIC MANAGEMENT	WORKER AND TRAFFIC INTERACTION	SEPARATE TRAFFIC AND PEDESTRIANS WHERE POSSIBLE	✓			ENGINEER/ARCHITECT	
		FORWARD MOTION PREFERENCE GIVEN TO TRAFFIC		✓		ENGINEER/ARCHITECT	
		PROVIDE LOADING FACILITY CLOSE TO GOODS STORAGE		✓		ENGINEER/ARCHITECT/CONTRACTOR	REFER CODE OF PRACTICE
	EMERGENCY VEHICLE	ENSURE ADEQUATE ACCESS FOR EMERGENCY VEHICLES		✓		ENGINEER/ARCHITECT	
	PEDESTRIANS	PEDESTRIANS SEPARATED FROM TRAFFIC		✓		ENGINEER	NO SEPARATION HAS BEEN PROVIDED, BUT CONSISTENT WITH EXISTING DESIGN AND ADJACENT SECTION OF ROAD
EROSION	LANDSCAPING AREAS	ENSURE WORKS ARE ESTABLISHED AT HANDOVER AND VEGETATION TYPE, SOIL TYPE AND PREPARATION IS SUITABLE TO ENSURE LANDSCAPING IS SUSTANABLE			✓	MAINTENANCE CONTRACTOR	ENSURE THAT AREAS ARE MAINTAINED AND PERIODICALLY INSPECTED FOR EROSION
	HARD LANDSCAPING AREAS	ENSURE WORKS ARE MAINTAINED DURING DESIGN LIFE TO ENSURE THAT EROSION DOES NOT COMPROMISE THE SAFETY OF USERS			✓	MAINTENANCE CONTRACTOR	
DISABLED ACCESS	ACCESS AND EGRESS	ENSURE DESIGN CATERS FOR PERSONS WITH DISABILITIES		✓		ENGINEER/ARCHITECT	
MANUAL TASKS	LIFTING OF MATERIALS	PROVIDE MECHANICAL LIFTING DEVICES OR LIFTING POINTS WHERE APPROPRIATE		✓	✓	ENGINEER	REFER CODE OF PRACTICE
		PROVIDE TRAINING FOR WORKERS			✓	CLIENT	REFER CODE OF PRACTICE

HAZARDS		CONTROL MEASURE	CONTROL			PERSON RESPONSIBLE FOR CONTROL	ADDITIONAL NOTES
			ELIMINATION	ENGINEERING	ADMINISTRATION/ CODE OF PRACTICE		
SEQUENCING	EARTH COLLAPSE	ENSURE EARTH IS STABLE BEFORE REMOVING STRUCTURE			✓	CONTRACTOR	
	STRUCTURE COLLAPSE	CLEARLY NOTE ANY CONSTRUCTION/DEMOLITION SEQUENCING REQUIREMENTS ON PLANS				ENGINEER	REFER CODE OF PRACTICE
		FULLY SUPPORT STRUCTURE DURING DEMOLITION AND REMOVE IN METHODOICAL FASHION			✓	CONTRACTOR	REFER CODE OF PRACTICE

CLIENT JAMES COOK UNIVERSITY		
PROJECT UNIVERSITY MALL LINK		
JAMES COOK UNIVERSITY, TOWNSVILLE CAMPUS		
DRAWING SAFETY AND DESIGN NOTES		
JOB NUMBER JCUA041	SHEET No. S0.02	REVISION B