

SAFETY IN DESIGN NOTES

SID1	MLEI CONSULTING ENGINEERS HAVE CONDUCTED A PRELIMINARY SAFETY IN DESIGN REVIEW OF THE DESIGN ON THESE DRAWINGS. IT IS SUMMARIZED IN THE NOTES BELOW. THE REVIEW IS BASED GENERALLY ON THE PROCEDURE OUTLINED IN THE SAFE WORK AUSTRALIA PUBLICATION "SAFE DESIGN OF STRUCTURE CODE OF PRACTICE".	SID12	LOCATE STOCKPILES AND HEAVY EQUIPMENT INCLUDING CRANES AWAY FROM BURIED SERVICES AND BUILDING BOUNDARIES WHERE ADJACENT BASEMENTS ARE PRESENT.
SID2	THE DESIGN HAS NOT BEEN REVIEWED WITH CONTRACTOR/BUILDER AT THE TIME OF ISSUE FOR TENDER OR CONSTRUCTION. CONSTRUCTION METHODS VARY BETWEEN CONTRACTORS, SO IT IS NOT POSSIBLE FOR MLEI CONSULTING ENGINEERS TO PERFORM AN EXHAUSTIVE SAFETY IN DESIGN OR SAFETY IN CONSTRUCTION REVIEW. ONCE APPOINTED, THE CONTRACTOR IS REQUIRED TO UNDERTAKE A THOROUGH REVIEW OF THE DESIGN WITH THEIR SUBCONTRACTORS TO IDENTIFY SAFETY RISKS DURING CONSTRUCTION AND DURING THE LIFE OF THE BUILDING.	SID13	SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL OR STRUCTURAL ENGINEER PRIOR TO OPERATION OF HEAVY SURFACE PLANT AND EQUIPMENT OR STOCKPILING MATERIAL NEAR OPEN EXCAVATIONS OR EXISTING RETAINING STRUCTURES.
SID3	THE SAFETY RISK MITIGATION ITEMS BELOW ARE BASED ON MLEI'S DESIGN OFFICE EXPERIENCE AND DO NOT NECESSARILY ACCOUNT FOR ALL CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION SAFETY RISKS BASED ON INFORMATION WHEN THIS DRAWING WAS MADE IN ITS CAPACITY AS DESIGNER ONLY. MLEI HAS TRIED TO IDENTIFY SAFETY RISKS PERTAINING TO CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION PHASES OF THE ASSET. INCLUSION (OR NOT) OF ANY ITEM DOES NOT REDUCE OR LIMIT OBLIGATIONS OF CONSTRUCTOR, USER, MAINTAINER AND DEMOLISHER TO UNDERTAKE APPROPRIATE RISK MANAGEMENT ACTIVITIES TO REDUCE RISK AND IS NOT AN ADMISSION BY MLEI THAT INCLUSION OF ANY ITEM IS THE DESIGNER'S RESPONSIBILITY.	SID14	DO NOT STOCKPILE MATERIALS BEHIND OR EXCAVATE IN FRONT OF EXISTING RETAINING WALLS UNTIL WALL STABILITY HAS BEEN REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
SID4	CONSTRUCT BUILDING ELEMENTS THAT CONTRIBUTE TO SAFETY SUCH AS HAND RAILS AND TOE BOARDS, FALL ARREST SYSTEMS, etc. AS EARLY AS POSSIBLE.	SID15	SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LAYING SERVICES BELOW EXISTING FOOTING LEVELS.
SID5	PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND ELEVATED AREAS.	SID16	HAVE LOAD CAPACITY OF STRUCTURES VERIFIED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LOADING OF STRONG MATERIALS ON EXISTING OR PARTIALLY COMPLETED STRUCTURAL ELEMENTS.
SID6	REVIEW ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPERATION OF PLANT AND PERSONNEL ON SITE, INCLUDING MOVEMENTS OF BOTH.	SID17	SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER IF PLANNING CRANE LIFTS OR HOIST INSTALLATION OF PARTIALLY ERECTED OR SUSPENDED STRUCTURES.
SID7	LOCATE LIFTING SLEW AND LAY DOWN AREAS AWAY FROM REGULAR CONSTRUCTION TRAFFIC.	SID18	SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE CORING, CHASING, CUTTING OR REMOVAL OF EXISTING CONCRETE AND REINFORCEMENT.
SID8	PROVIDE PROTECTION OF PERSONNEL FROM PLANT AND EQUIPMENT, INCLUDING POST-TENSIONED GROUND ANCHOR INSTALLATION WORKS	SID19	HAVE SUITABLY QUALIFIED STRUCTURAL ENGINEER UNDERTAKE STRUCTURAL CHECK OF EXISTING CONCRETE, MASONRY AND STUD WALLS WHERE FIXINGS OR EQUIPMENT IS TO BE ATTACHED.
SID9	ENSURE ISOLATION SAFE SYSTEMS OF WORK OR PROTECTIVE MEASURES ARE INSTALLED BEFORE WORKING NEAR LIVE ELECTRICAL INFRASTRUCTURE. PROVIDE PROTECTION OF ELECTRICAL OVERHEAD WIRING SYSTEMS DURING CONSTRUCTION.	SID20	INSTRUCT SERVICES CONTRACTORS UNDER NO CIRCUMSTANCES CAN STRUCTURAL MEMBERS BE CUT, NOTCHED OR DRILLED TO ACCOMMODATE NEW SERVICES.
SID10	WRITTEN RISK ASSESSMENTS ARE ADVISED FOR ACCESS TO OPEN EXCAVATIONS.	SID21	ESTABLISH LOCATIONS OF LIVE EMBEDDED SERVICES BEFORE CUTTING THROUGH SLABS, etc.
SID11	PROVIDE ACCESS AND EGRESS TO EXCAVATIONS APPROPRIATE IN CASE AND INUNDATION, COLLAPSE OF ENGULFMENT.	SID22	DEVELOP STEELWORK/PRECAST/TILT UP INSTALLATION SAFE WORK METHOD STATEMENT TO ELIMINATE AND MINIMIZE INSTALLATION RISKS, AND HAVE REVIEWED BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
		SID23	DO NOT CUT OR UNBOLT ANY STRUCTURAL MEMBERS WITHOUT SEEKING REVIEW BY SUITABLY QUALIFIED STRUCTURAL ENGINEER.
		SID24	PROVIDE BUCKLING STABILITY TO LONG SPAN BEAMS, TRUSSES etc DURING ERECTION. IF UNSURE CHECK WITH SUITABLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO LIFTING AND INSTALLATION.
		SID25	MINIMIZE SITE BASED TREATMENTS (eg WELDING, CUTTING, SPRAY PAINTING, GRIT BLASTING, etc.). PROVIDE ADEQUATE PROTECTION, SCREENING AND VENTILATION TO MINIMIZE HAZARDS TO PERSONNEL IF SITE BASED TREATMENT IS UNAVOIDABLE.
		SID26	TRY TO AVOID WORKING IN CONFINED SPACES. IF CONFINED SPACES WORK CAN'T BE AVOIDED, PROVIDE A SAFE WORK METHOD STATEMENT ADDRESSING MITIGATION OF RISKS. PROVIDE ADEQUATE SIGNAGE TO TEMPORARY AND PERMANENT CONFINED SPACES TO AS2865.

SID27	AVOID HOT WORKS ON SITE, PARTICULARLY IN TIMBER FRAMED STRUCTURES. HOT WORKS TO COMPLY WITH CLIENT PROCEDURES FOR APPLICATION "HOT WORKS PERMITS".
SID28	SOME SITES IN AUSTRALIA AND EXTENSIVE REGIONS OF SE ASIA CONTAIN UNEXPOSED ORDNANCE (UXO) IN THE GROUND. UNDERTAKE DESKTOP REVIEWS FOR THE LIKELIHOOD OF UXO'S BEFORE COMMENCING ANY GROUND INVESTIGATION OR EXCAVATION IN THESE AREA'S. SHOULD EVIDENCE INDICATE POTENTIAL UXO PRESENCE, DO NOT COMMENCE GROUND WORKS UNTIL ENGAGING A SPECIALIST CONSULTANT WHO CAN HELP DEFINE ANY FUTURE CLEARANCE TASKS.
SID29	DETERMINE APPROPRIATE METHOD OF PAINT REMOVAL AND DISPOSAL BEFORE STRIPPING PAINT, PARTICULARLY ON HISTORIC STRUCTURES COATINGS CONTAINING COAL TAR EPOXIES, BITUMENS AND ASPHALTS, ZINC CHROMATE AND LEAD PRESENT A HEALTH RISK. PROVIDE SCREENING TO PUBLIC AND ENVIRONMENT FOR PAINT REMOVAL AND CLEANING OPERATIONS. USE ENVIRONMENTALLY APPROPRIATE RESTORATION METHODS DURING MAINTENANCE AND REPAIR WORK.
SID30	MAKE WORK AREAS SAFE WHERE STRUCTURAL ELEMENTS ARE DAMAGED, CRACKED OR HAVE SUFFERED SIGNIFICANT SECTION LOSS BEFORE ALLOWING GENERAL CONSTRUCTION OR REPAIR ACCESS.
SID31	REPORT SIGNIFICANT SECTION LOSS OR CORROSION FLAKING BEFORE STARTING PAINTING OR REPAIRS. CONSULT SUITABLY QUALIFIED STRUCTURAL ENGINEER IF SECTION LOSS OR EXTENSIVE CORROSION FLAKING PRESENT BEFORE PROCEEDING WITH WORK.
SID32	DEVELOP AND IMPLEMENT RISK MITIGATION STRATEGIES BEFORE ALLOWING ACCESS OVER SUSPENDED CLADDING FINISHES THAT MAY BECOME BRITTLE OVER TIME.
SID33	REPORT LOOSE OR MISSING BOLTS etc. IN CONNECTIONS ENCOUNTERED DURING DAY TO DAY OPERATIONS.
SID34	REMOVE MATERIAL FROM STORAGE STRUCTURES BEFORE UNDERTAKING MAINTENANCE WORKS.
SID35	BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR LOCATION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



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REVISION				<div>ISSUED FOR TENDER NOT FOR CONSTRUCTION</div>	<div> MLEI Consulting Engineers TALENTED APPROACHABLE RESPONSIVE PIONEERING 452 Pulteney Street, Adelaide SA 5000 Telephone (08) 8231 2832 Facsimile (08) 8311 1742 www.mlei.com.au</div>	PROJECT LOT 52 RESERVOIR ROAD, PARADISE (STAGE 4)	DRAWING TITLE GENERAL NOTES (SHEET 2)	DRAFTER HN	ENGINEER CO	MANAGER TH
ISSUE	DATE	DESCRIPTION	INITIAL					DATE Sep-18	PROJECT NUMBER 2018-7944	DRAWING SCALE NTS
P1	11.9.18	ISSUED FOR CLIENT REVIEW	HN			CLIENT MR PAT BELPERIO	DO NOT SCALE FROM THIS DRAWING			
T1	18.10.18	ISSUED FOR TENDER	HN							
								DRAWING NUMBER S02	SHEET SIZE A3	REV T1