

**YANGON CITY DEVELOPMENT COMMITTEE
ENGINEERING DEPARTMENT (BUILDING)**

Detailed checklist of structural design documents for final permit (9 storey to 13 storey)

Project:		Address
Owner:		
Date:		

Particular			√	×	Comments
1	DESIGN DRAWING				
	1.1	FOUNDATION DRAWING			
		1.1.1 List of Drawings			
		1.1.2 Standard Drawing and General Notes			
		1.1.3 Foundation Plan			
		1.1.4 Steel Schedule (Foundation / Pile Cap, Beams, Columns, Slabs, Shear Walls and Retaining Walls (up to another level))			
		1.1.5 Basement Floor Plan (If any basement included)			
		1.1.6 Pile, Pile Cap and Foundation Details			
	1.2	SUPER STRUCTURE DRAWING			
		1.2.1 List of Drawings			
		1.2.2 Standard Drawing and General Notes			
		1.2.3 Structural Plans (Beams, Columns, Slabs, Shear Wall)			
		1.2.4 Structural Member Details (Beams, Columns, Slabs)			
		1.2.5 Stair Details			
		1.2.6 Shear Wall Details			
		1.2.7 Schedules (Beams, Columns, Slabs, Stair, Shear Wall)			
		1.2.8 Other Details (if necessary)			
2	DESIGN REPORT				
	2.1	DESIGN REPORT			
		2.1.1 Code of Practice and Design Reference, Specification			
		2.1.2 Basic Structural System			
		2.1.3 Material Properties			
	2.2	FOUNDATION DESIGN			
		2.2.1 Pile Capacity Calculation (Geotechnical)			
		2.2.2 Pile Capacity Calculation (Structural)			
		2.2.3 Soil Profile Type			
		2.2.4 Liquefaction Analysis Result			
		2.2.5 Lateral Subgrade Calculation			
		2.2.6 Skin Friction and Base Spring Calculation			
		2.2.7 Analysis Input			
		2.2.8 Analysis Output Result			
		2.2.9 Settlement Calculation			
		2.2.10 Foundation Design: Pile, Pile Cap / Mat			
		2.2.11 Basement Retaining Wall Design			
		2.2.12 Other Design (if necessary)			
		2.2.13 Analysis CD			

	2.3	SUPER STRUCTURE DESIGN				
		2.3.1	Analysis Input			
		2.3.2	Analysis Output Result			
		2.3.3	Structural Design Results			
		2.3.4	Stability Checks: Base Shear Calculation			
		2.3.5	Stability Checks: Drift Limit			
		2.3.6	Stability Checks: Mode Participation Ratio			
		2.3.7	Stability Checks: Soft Storey			
		2.3.8	Stability Checks: P- Δ Effect			
		2.3.9	Stability Checks: Overturning			
		2.3.10	Stability Checks: Torsional Irregularity			
		2.3.11	Stability Checks: Sliding (if necessary)			
		2.3.12	Slab Design			
		2.3.13	Stair Design			
		2.3.14	Other Design (if necessary)			
		2.3.15	Analysis CD			
	3	Deep Excavation				
	3.1	Deep Excavation Drawing				
		3.1.1	List of Drawings			
		3.1.2	Standard Drawing and General Notes			
		3.1.3	Construction Sequences			
		3.1.4	Site Location Plan			
		3.1.5	Building Layout Plan			
		3.1.6	Distance apart from Existing Building and Excavated boundary line.(number of stories in existing building and type of structure)			
		3.1.7	Retaining Wall Layout Plan			
		3.1.8	Retaining Wall Details			
		3.1.9	Strutting Layout Plan (if necessary)			
		3.1.10	Strutting Member Schedule & Details (if necessary)			
		3.1.11	Monitoring Layout Plan			
		3.1.12	Monitoring Instrumentation General Note			
		3.1.13	Excavation Procedure			
		3.1.14	Connection Details			
	3.2	Deep Excavation Design Calculation				
		3.2.1	Code of Practice and Design Reference, Specification			
		3.2.2	Earth Retaining Structural System			
		3.2.3	Material Properties			
		3.2.4	Analysis Input			
		3.2.5	Analysis Output Result			
		3.2.6	Structural Design Results			
		3.2.7	Toe Stability Check			
		3.2.8	Base Heave Check			
		3.2.9	Connection Design			
		3.2.10	Analysis Soft Copy			
	4	Pile Load Test				
	4.1	Method of Statement				
		4.1.1	Code of Practice and Design Reference			
		4.1.2	Method of Statement of Pile Load Test			

	4.1.3	Material Properties			
	4.1.4	Pile Design Report by Foundation Designer (Geotechnical and Structural Design)			
	4.1.5	Geotechnical Report (should consist adequate c, ϕ and SPT value for pile design calculation) and Bore Hole			
	4.1.6	Site Location and Building Layout Plan			
	4.1.7	Building Layout Plan with Bore Holes			
	4.1.8	Piling Plan with Test Pile Locations			
	4.1.9	Test Pile details			
	4.1.10	Anchor Pile Details (if necessary)			
	4.1.11	Sample Record Form			
	4.1.12	Load Conversion Table			
	4.2	Report			
	4.2.1	Code of Practice and Design Reference			
	4.2.2	Material Properties			
	4.2.3	Piling Plan with Test Pile Locations			
	4.2.4	Test Pile details			
	4.2.5	Anchor Pile Details (if necessary)			
	4.2.6	Test Results			
	4.2.7	Recommendation for Pile Capacity Results			
	4.2.8	Calibration Certificate			
	4.2.9	Record Form			