

WORK ITEM LISTS

WORK ITEM LIST FOR NEW CONSTRUCTION

1. PREPARATION WORKS FOR CONSTRUCTION

- 1.1. Soil investigation
- 1.2. Application of the building
- 1.3. Excavation
- 1.4. Building slope support systems
 - 1.4.1. Poling
 - 1.4.2. Shielding
 - 1.4.3. Shoring
 - 1.4.4. Façade retention
- 1.5. Construction of retaining walls
- 1.6. Infrastructure works
 - 1.6.1. Drainage systems
 - 1.6.2. Clear water systems
 - 1.6.3. Sewage systems

2. CONSTRUCTION OF FOUNDATIONS

- 2.1. Construction of shallow foundation systems
 - 2.1.1. Construction of single pad footings and tie beams
 - 2.1.2. Construction of continuous footings
 - 2.1.2.1. One-way continuous footings and tie beams
 - 2.1.2.2. Two-way continuous footings
 - 2.1.3. Construction of raft foundations and base slabs
 - 2.1.3.1. Solid slab raft foundations
 - 2.1.3.2. Beam and raft foundations
 - 2.1.3.3. Raft foundations with drop panels
- 2.2. Construction of deep foundation systems
 - 2.2.1. Pile foundations
 - 2.2.2. Caisson foundations
- 2.3. Thermal insulation, waterproofing, and screed applications

3. CONSTRUCTION OF STRUCTURAL SYSTEM

- 3.1. Construction of skeleton frameworks
 - 3.1.1. Construction of columns and beams
 - 3.1.1.1. On-site column and beam construction
 - 3.1.1.2. Precast column and beam construction
 - 3.1.1.3. Shear wall construction
- 3.2. Construction of masonry works
- 3.3. Construction of folded plates
- 3.4. Construction of shell structures
- 3.5. Construction of cable structures
- 3.6. Construction of membrane systems (tent and pneumatic structures)
- 3.7. Construction of space frame systems

4. CONSTRUCTION OF BASEMENT WALLS

- 4.1. Thermal insulation and waterproofing/vapor barrier applications
- 4.2. Internal finishing

WORK ITEM LISTS

5. CONSTRUCTION OF BASEMENT FLOORS

- 5.1. Construction of slabs on grade
 - 5.1.1. Filling the excavation pit and soil compaction
 - 5.1.2. Blockage works
 - 5.1.3. Application of blinding concrete
 - 5.1.4. Thermal insulation and waterproofing works
 - 5.1.5. Screed works
 - 5.1.6. Flooring/Finishing works
- 5.2. Construction of slabs on raft foundations
 - 5.2.1. Screed works
 - 5.2.2. Flooring/Finishing works

6. CONSTRUCTION OF SUBBASEMENT FLOORS OF BUILDINGS WITHOUT BASEMENT FLOORS

- 6.1. Construction of slabs on grade
 - 6.1.1. Filling the excavation pit and soil compaction
 - 6.1.2. Blockage works
 - 6.1.3. Application of blinding concrete
 - 6.1.4. Thermal insulation and waterproofing works
 - 6.1.5. Screed works
 - 6.1.6. Flooring/Finishing works
- 6.2. Construction of slabs on raft foundations
 - 6.2.1. Screed works
 - 6.2.2. Flooring/Finishing works

7. CONSTRUCTION OF FLOORS

- 7.1. On-site floor slab construction
- 7.2. Construction of precast/prefabricated slabs/floor decks
- 7.3. Thermal/Sound insulation and waterproofing/vapor barrier applications
- 7.4. Screed applications
- 7.5. Flooring/finishing application

8. CONSTRUCTION OF EXTERNAL WALLS

- 8.1. Laying bricks/blocks
- 8.2. Precast/prefabricated wall applications
- 8.3. Thermal/Sound insulations and waterproofing/vapor barrier applications
- 8.4. Internal finishing
- 8.5. Façade cladding works
- 8.6. Window/Door frame and glazing applications

9. CONSTRUCTION OF ROOFS

- 9.1. Construction of pitched roof systems
 - 9.1.1. Roof structure construction
 - 9.1.2. Thermal/Sound insulation and waterproofing/vapor barrier applications
 - 9.1.3. Roofing works
 - 9.1.4. Rainwater drainage works
- 9.2. Construction of flat roofs
 - 9.2.1. Screed works
 - 9.2.2. Thermal/Sound insulation and waterproofing/vapor barrier applications
 - 9.2.3. Roofing works
 - 9.2.4. Rainwater drainage works
- 9.3. Skylight works

WORK ITEM LISTS

10. CONSTRUCTION OF STAIRS

- 10.1. Construction of stair structure
- 10.2. Step covering/finishing works
- 10.3. Balusters/Handrails/Balustrades applications

11. CONSTRUCTION OF INTERIOR WALLS

- 11.1. Laying bricks/blocks
- 11.2. Precast/prefabricated wall applications
- 11.3. Thermal/Sound insulations and waterproofing/vapor barrier applications
- 11.4. Finishing/cladding works
- 11.5. Window/Door frame and glazing applications

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12. CONSTRUCTION OF INTERNAL SUBDIVISION SYSTEMS

- 12.1. Internal partition construction
 - 12.1.1. Demountable walls assembly
 - 12.1.2. Movable walls assembly
- 12.2. Suspended ceiling construction
- 12.3. Raised floor construction

13. ENVIRONMENTAL CONTROL SYSTEM WORKS

- 13.1.1. Sun shading works
- 13.1.2. Lightning rod construction
- 13.1.3. Noise shielding works
- 13.1.4. Wind barrier works

14. CONVEYING SYSTEMS WORKS

- 14.1.1. Belt conveyors and escalators
- 14.1.2. Elevators and dumbwaiters

15. ELECTRICAL INSTALLATION SYSTEM WORKS

16. MECHANICAL INSTALLATION SYSTEM WORKS

- 16.1.1. Natural gas installation
- 16.1.2. Clean/Waste water installation
- 16.1.3. Hot water installation
- 16.1.4. Ventilation/Air conditioning systems

17. SANITARY SYSTEM INSTALLATION

18. INTERIOR DECORATION

19. LANDSCAPING

Important Note: The learning process of site management, architectural drawing, modeling, and representation programs are not accepted as part of the professional practice work items.

WORK ITEM LISTS

WORK ITEM LIST FOR CONSTRUCTION PROCESS OF ARCHITECTURAL PRESERVATION PROJECTS

- 1. CONSOLIDATION**
 - 1.1. Structural systems
 - 1.2. Materials and ruins

- 2. CLEANING**
 - 2.1. Removing the unqualified additions
 - 2.2. Cleaning of the components of the structure
 - 2.2.1. Mechanical cleaning
 - 2.2.2. Chemical cleaning

- 3. REINTEGRATION**
 - 3.1. Replacement
 - 3.1.1. Completion of original materials and techniques
 - 3.1.2. Completion of contemporary materials and techniques

- 4. RENOVATION- REHABILITATION**
 - 4.1. Electrical Infrastructure
 - 4.2. HVAC Infrastructure
 - 4.3. Waste Water Infrastructure

- 5. RECONSTRUCTION**
 - 5.1. Establishment of the previous foundation traces
 - 5.2. Construction of the foundation
 - 5.3. Installation of electrical and water system infrastructures
 - 5.4. Establishment of the structural system
 - 5.5. Masonry/Timber works
 - 5.6. Installment of the vertical electrical and water infrastructures
 - 5.7. Finishing construction works

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