

**SCOPE OF WORK
FORMING
KINGSWAY PROJECT**

1.1 GENERAL

A. WORK

The term "Work" includes all labor, materials, equipment and services required of the CONTRACTOR, as shown, described or inferred in the Contract Documents.

The CONTRACTOR is only to use its own forces and/or OWNER/CONSTRUCTION MANAGER approved sub-trades to undertake the Work. The CONTRACTOR may not sub out further work without the prior written consent of the OWNER, such consent to be granted at the discretion of the OWNER.

B. WORK, LICENSES, PERMITS AND INSPECTIONS

The CONTRACTOR agrees to do all work in accordance with the plans, specifications, and performance standards and in accordance with good building practice, any and all civic, municipal, provincial and federal laws and codes pertaining thereto and to the satisfaction of the OWNER. The CONTRACTOR further agrees to obtain all licenses required in connection with his work and to inform the site superintendent of the date and time work will be ready for inspection as well as the nature of the inspection.

C. LIABILITY INSURANCE

The CONTRACTOR shall provide and maintain, at his expense, a minimum of \$2,000,000 general liability insurance against claims made for damages for personal injury or property damage by reason of anything done or not done by the CONTRACTOR, its employees or agents, in connection with the performance of this Agreement. Proof that the OWNER and the CONSTRUCTION MANAGER are named insured is required upon successful awarding of the contract.

D. WORKSAFE B.C.

Upon award of this contract, the CONTRACTOR shall provide certification of WorkSafe BC registration and good standing, and current letter of clearance. Provide WorkSafe BC letters of clearance on a monthly basis thereafter. At any time during the term of this Contract when requested by the OWNER, the CONTRACTOR shall provide such evidence of compliance by himself and any or all of his Sub-Contractors with all requirements with respect to payments and rules and regulations due under the Workers' Compensation Act. The CONTRACTOR shall conduct weekly safety meetings and supply appropriate paperwork to the Site Superintendent as required by WorkSafe B.C.

E. HEALTH & SAFETY PLAN

The CONTRACTOR acknowledges that he has read the Chysik Project Management Health and Safety Plan Manual and agrees with the content and the intent of the manual. In the interest of the health and safety of the site workers, the CONTRACTOR further agrees to comply with all aspects of the Chysik Project Management Health and Safety Manual as well as all Workers Compensation Act and WorkSafe BC regulations and requirements.

F. GENERAL SITE MAINTENANCE

1. The CONTRACTOR shall clean up, remove, and dispose of all debris associated with this work to the bin provided by OWNER. Maintain cleanliness of the property at all times.
2. All work, including start-up of equipment, is to be performed during regular working hours as per the City of Vancouver bylaws.
3. It is the intent of this contract that all work performed by the CONTRACTOR is to be complete and functional in all respects meeting all applicable codes and requirements and to the final approval of local governing authorities having jurisdiction;
4. The CONTRACTOR is responsible for protecting the work of other trades from any damage caused by his own work forces;

5. The CONTRACTOR shall be responsible for WHMIS compliance and enforcement as it relates to this scope of work.

G. GENERAL RESPONSIBILITIES

1. The CONTRACTOR is responsible to familiarize himself with the site and point out any potential problems before starting the job.
2. The awarding of this Contract shall be based on the assurance that adequate, qualified manpower will be provided to carry out this scope of work, and work will be commenced and completed as per the Project Schedule, as revised from time to time by the Construction Manager.
3. The CONTRACTOR shall provide additional labour, including safety personnel, for overtime and Saturday work as required from time to time to comply with Project Schedule at no additional cost to the OWNER.
4. The CONTRACTOR shall cooperate with other trades to ensure a smooth and safe flow of work. Provide a plan detailing sequencing of work to the CONSTRUCTION MANAGER.
5. The CONTRACTOR shall provide a certified Trade Safety Coordinator as required by City of Vancouver bylaws and provide certification of qualification to the Construction Manager.
6. The CONTRACTOR shall comply with all requirements for safety procedures, reports, and meetings in accordance with applicable regulations, bylaws, and safety programs.
7. The CONTRACTOR agrees that the OWNER is not responsible for fire, theft, loss and/or vandalism of any of the CONTRACTOR's tools, equipment, materials, supplies and/or work in progress.

1.2 FORMING

- A. The CONTRACTOR shall provide all supervision and all required forms, (except suspended slab plywood and dimension lumber), hardware, scaffolding, equipment, and labor for the complete foundation and suspended slab forming for the project as per the Architectural and Structural drawings, (latest revision).
- B. The CONTRACTOR confirms that he is an expert in this field of work and is fully knowledgeable and experienced in all aspects of procedures, methods, regulations, codes and municipal requirements and the CONTRACTOR further acknowledges that the OWNER is relying on this expertise.
- C. The work shall include, but shall not necessarily be limited to, the following:
 1. The CONTRACTOR to provide supervision and layout of all detailed excavation for their work including providing all related elevations.
 2. The CONTRACTOR shall supply all labour, materials, tools and equipment to construct forms for all required up-stands as indicated on the Architectural and/or structural plans, including gate columns retaining walls, ornamental walls, concrete stairs, ramps, planters etc.
 3. All mechanical and electrical block outs are to be formed as required by the related trades and as required by the site superintendent.
 4. The CONTRACTOR shall provide all labour, tools, forms & equipment for the formwork for the elevator shaft/equipment in accordance with the engineering plans to be supplied by the Elevator Supplier/Contractor.
 5. The CONTRACTOR shall ensure to use all OWNER supplied materials in an economical manner to minimize waste. Such material is to be cleaned, have nails pulled and neatly stacked in a site location as directed by the site superintendent.

6. The CONTRACTOR shall install all steel door frames as supplied by the OWNER. The frames are to be installed square and plumb and placed to the proper elevation as per design.
7. The CONTRACTOR shall be responsible for the cleaning, storing and transportation of all the forming materials and equipment on the Project site. It is agreed that the CONTRACTOR shall provide a crane and/or forklift capable of performing all tasks necessary to complete their work as required.
8. The CONTRACTOR shall liaise and cooperate with the OWNER's reinforcing steel, electrical, plumbing, damp proofing, waterproofing and elevator contractors to ensure the job is complete and work is carried out in a timely manner with a minimum of delays.
9. All form tie holes are to be solid grouted flush with wall surface. Protruding form ties shall be snapped off after the concrete has set, usually 48 hours to prevent loosening of the ties. Defects in the concrete including honeycombing and cold joints shall be patched as part of the task of form stripping to allow sufficient curing prior to damp proofing.
10. The CONTRACTOR is responsible to provide all required supervision for the layout and forming of the suspended slab building perimeter step as per design. Also provide all required layout of corridor and party walls (key grid lines) for mechanical and electrical trade use.
11. The CONTRACTOR shall supply all required suspended slab scaffolding and all required engineering for such scaffolding, including re-shoring as may be required for a crane.
12. Footing and wall dimensions shall be as specified in the BC Building Code or by the OWNER'S structural engineer and shall be verified with the superintendent prior to work commencing.
13. Provision shall be made through the footings or walls for water drainage and installation of services.
14. Footings at steps shall be poured continuously with continuous bearing as per code.
15. Formwork shall be tightly constructed to minimize leakage of concrete through form joints.
16. All forms shall be kept in good condition. Forms that will not produce a consistent quality interior wall surface are not to be used. All concrete surfaces will be inspected to ensure the highest quality workmanship. Grinding and sacking if required, will be the responsibility of the CONTRACTOR.
17. Formwork shall be properly braced prior to pour, to ensure a straight, plumb, level and safe pour.
18. All required water stop and cold joint materials required are to be placed as per structural engineer and envelope consultants design.
19. The CONTRACTOR shall provide all labour to strip all footing forms, wall and column forms, suspended slab forms and all stair, gate, retaining wall and planter forms.
20. When formwork is completed, all loose debris and loose fill shall be cleaned from the footing and wall forms.
21. The CONTRACTOR is responsible to provide on-site supervision at all times for their workers and will work directly with the site superintendent to insure optimum scheduling and workmanship.
22. The CONTRACTOR shall provide a credit for any deletions or reductions of formed concrete wall areas due to the use of shotcrete structural wall areas by others at the southerly property line.

1.3 CONCRETE PLACING

The CONTRACTOR agrees to place the concrete supplied by the OWNER in the footing and foundation wall forms as specified and as follows:

1. Place all concrete, as supplied by the Concrete Supplier, in such a manner as not to detract from the project appearance
2. Vibrate all concrete during wall and column form pours to ensure a minimum of honey combs or pour lines
3. Fill and sack all honey combs and concrete wall imperfections
4. Clean up all concrete spills

1.4 OWNER RESPONSIBILITIES

The OWNER shall supply:

1. All survey pins and benchmarks as may be required for the locations of the forming.
2. All required dimension lumber, suspended slab plywood, concrete and reinforcing steel.
3. All required plans and engineering details.
4. All required power