

1. GENERAL

1.1 SCOPE

- .1 Comply with DDSB General Requirements including DDSB Q26-03 documentation and conform to all information contained herein.
- .2 The Trade Contractor shall provide all labour, materials, equipment, and services that are necessary to remove and dispose of the existing Inclined Platform Lift (IPL) having TSSA #72523, and for the supply and installation one (1) new straight IPL in accordance with this Specification for the Eastdale Collegiate and Vocational Institute in Oshawa, Ontario. Any site conditions requiring special attention or deviations from standard product line as outlined herein shall be calculated and included in the contract price.
- .3 Where drawings, site conditions, and specifications are not conclusive or differing, the Contractor shall inform the Construction Manager and/or the Consultant at the time of tendering, but in no way shall it relieve the Contractor of the obligation under the intent of the Specification, to supply and install one (1) complete, fitting, and functional indoor straight Inclined Platform Lift to full Code compliance.
- .4 Contractor to verify all existing site conditions and measurements as well as specifications before providing shop drawings for review and prior to manufacturing. For further clarification, the new IPL shall be designed to suit existing stair incline and surrounding wall conditions.
- .5 The elevating device installation and associated maintenance references herein for the Eastdale Collegiate and Vocational Institute located at 265 Harmony Road North in Oshawa Ontario, is referred to as the "Specification". The Elevator Contract is referred to as the "Contract" and it includes the Specification, Bid Form, Drawings, plus any addendum issued and attached hereto. The term "Owner" refers to Durham District School Board, the term "Architect" shall refer to Durham District School Board's representative, the term "Construction Manager" shall refer to future named Construction Manager or the General Contractor, the term "Consultant" refers to National Elevator Consulting Limited, and the term "Trade Contractor" refers to the successful IPL contractor proponent.
- .6 All Related Work by Others noted herein shall be reviewed and it is the responsibility of the elevator contractor to advise at the time of Bid Submission of any omitted itemized Work by Others to suit installation of their equipment. Contractor shall be held responsible for all costs associated with such omitted items not mentioned in their proposal at the time of bidding.
- .9 Warranty Maintenance documentation and services shall include a maintenance inspection every (3) months for maintenance services for the first (12) months from Date of Substantial Completion and handover. Contractor shall ensure field time tickets are provided for all Warranty Maintenance services reflecting all work performed. Work Hours are regular hours from 7:00 am until 4:00 pm Monday to Friday, excluding statutory holidays. Contractor shall provide callback service 24 hours a day, every day of the year, at no additional cost to the Owner. Callback service shall be provided within (60) minutes during regular working hours, and within (120) minutes outside of regular business days, during weekends, and statutory holidays. Maintenance shall be comprehensive and include for the replacement of all Lift equipment, excluding any damaged equipment as a result of misuse and the building disconnect.

1.2 REGULATIONS AND STANDARDS

- .1 The Contractor shall complete work in compliance with the latest edition of the Standards as noted below at the bid closing date, including all supplements and appendices as a minimum.
 - a./ Canadian Standards Association standard B355:19 *Lifts for Persons with Physical Disabilities*, inclusive of Annex A and Annex B.
 - b./ Ontario Building Code, Latest Edition
 - c./ C22.1 Part 1, Canadian Electrical Code, Latest edition.
 - d./ Codes and Standards Adopted by Reference, Ontario Re. 223/01.
 - e./ Ontario Regulation 209/01, Elevating Devices.
 - f./ Ontario Electrical Safety Code, Latest Edition.
 - g./ C22.1 Part 1, Canadian Electrical Code, Latest edition.
 - h./ Maintenance requirements per B355:19 Code.
- .2 All work performed and material supplied by the Contractor shall be in accordance with all building codes and local by-laws. Conform to governing Provincial Codes, Rules and Regulations and or Authorities having jurisdiction.
- .3 In regards to the use, handling, storage, and disposal of hazardous material, the Contractor shall comply with the requirements as outlined by the WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (W.H.M.I.S.).

1.3 QUALITY ASSURANCE

- .1 Work shall be undertaken by certified and licensed elevator personnel with Provincial accreditation.
- .2 Do all work and supply all equipment in accordance with the requirements and recommendations of the latest issue of the applicable standards and codes of the:
National Standards of Canada (NS Can)
Canadian General Standards Board (CGSB)
Canadian Standards Association (CSA)
American National Standards Institute (ANSI)
American Society for Testing and Materials (ASTM)

1.4 PERMITS AND FEES

- .1 Obtain, submit, and pay for necessary local and/or provincial permits and inspections relating to the lifting device. Building permit where required, shall be by the Owner or its assigned Construction Manager. Submit to the local and/or provincial authority registration of elevating device and also pay all costs in connection therewith, including costs associated with any and all tests to be performed by the authority in order to lawfully license the IPL for use by the general public. Submit one (1) copy of all submission documents, test results, and approval certificates to the Consultant prior to *Date of Substantial Completion*.

1.5 WORK SCHEDULE

- .1 All bidders must submit a proposed work schedule including time for removal of existing IPL, lead time required for approval drawings, manufacturing lead time after approvals, and time to complete on site activities at the time of bidding. Provide details with the Bid.

- .2 Lift portion of this Project is to commence on the date(s) established in strict accordance with the Owner's requirements and to be substantially completed and TSSA licensed not later than August 14, 2026. Refer to Article 1.5.5 below also.
- .3 Unless a result of an Act of God or another cause beyond the control of the Contractor, the Contractor shall take all necessary actions and absorb any extra costs to meet the work schedule when the delays are caused directly by the Contractor.
- .4 All work carried out by the IPL Contractor, including delivery of lift material, shall be performed during regular working hours of days.
- .5 School Year Restrictions: To ensure student safety and minimize disruption, on-site noisy work is strictly prohibited between the hours of 9:30 am and 3:30 pm, Monday to Friday. Summer Access: Full day access and work is permitted Monday to Friday between June 26 and August 14. Holidays: Work is excluded on statutory holidays unless approved in writing by the Owner.

1.6 MATERIAL AND EQUIPMENT

- .1 Specifications on the make and model of all major components to be used in completing the Project to be submitted with the Bid.
- .2 Brand names, trademarks, logos, or company name on any exposed elevating equipment to the public will not be permitted.
- .3 Install all equipment in a professional and tidy manner. Secure all wiring in a neat and orderly fashion and label all components.
- .4 Provide only new material and equipment designed specifically for elevator usage.

1.7 RELATED WORK BY THE GENERAL CONTRACTOR

General: The General Contractor shall provide all labour, materials, and services necessary to complete the following ancillary work required for the finished installation. All costs associated with this work shall be included in the General Contractor Base Bid.

- .1 **Construction Facilities and Temporary Controls:** The General Contractor shall provide protection for floor openings and finishes. This includes the supply and installation of personnel barriers and plywood hoarding encasing the entire work area with a lockable door, temporary power, and lighting. Removal of existing wall signage plates.
- .2 **Rail Support:** Rail support will be secured into existing block structure. Confirm at time of shop drawing review, reactions and loads shown on the IPL layouts can be handled by existing structure.
- .3 **Miscellaneous Metals and Patching:** Where existing hall controls have been removed by IPL Contractor, affix and install paintable metal plates over each area. Remove all existing IPL signage and patch surfaces to match existing finishes.
- .4 **Painting:** Re-paint existing block wall finishes in colour specified by Owner along the full length of the new IPL plus any metal wall plates.

.5 **Electrical:** General – Power requirements and location of all disconnect, switches, auxiliary contacts, and GFIC receptacles, to satisfy Trade Contractor power characteristics and requirements as identified on General Layouts and shall include not less than the following:

- Include for any and all disconnections of the existing power, wiring, and conduit to the existing IPL for removal of the existing IPL by the Contractor.
- Provide at top of IPL, 110 VAC, single-phase 60 Hz, in a dedicated 15 amp circuit through a lockable fused disconnect with secondary side piped and wired to IPL Contractor junction box.
- Include for a dedicated building ground wire to the main disconnect and from the main disconnect to the IPL Contractor's junction box.
- Install 1 GFIC outlet at the top end of the IPL.
- Install emergency lighting of 2 lx for 1 hour at the platform along the travel route.

1.8 SPECIFICATIONS AND DRAWINGS

.1 Within five (5) days of award, submit electronically (1) set of detailed shop drawings showing complete layout of all lift equipment as required including the following as minimum:

- Location of machinery and all components.
- Loads to be carried on the building imposed by the IPL equipment.
- Horsepower rating of motor and all electrical characteristics including recommended fuse size, ratings, and types, starting and running currents.
- Disconnects, switches, and all outlet locations.
- All Lift signage, fixtures, and finishes.
- Platform size, inclination, support post connections.

.2 Submit with detailed shop drawings all required work by others indicating sizes, quantities, and locations of ancillary equipment and all other relative data to suit a complete elevator installation. Failure to provide a complete and comprehensive listing of work by others will result in Contractor being held responsible for said omitted work, including all labour and material costs incurred by other trades to complete same.

1.9 WARRANTY & MAINTENANCE

.1 A warranty of (12) months minimum on all parts shall be provided by the Lift manufacturer. Replacement of parts under this Warranty shall be carried out at no cost to the Owner whatsoever and cover as a minimum material, labour, truck expenses, and all travel time.

.2 (12) month maintenance warranty shall be included in base contract amount and shall commence from *Date of Substantial Completion*. Refer to Article 1.1.9.

1.10 CHANGES IN THE SCOPE OF WORK

.1 In the event the Owner changes the scope of work in any manner once the contract has been awarded, the contract price may be adjusted accordingly. Any such change will not invalidate the contract.

.2 Contractor shall obtain from the Owner, written approval and acceptance of all costs associated with any contemplated change prior to commencement of such work.

.3 Any such change shall include all overhead, mark-up and profit.

1.11

NON-PROPRIETARY EQUIPMENT AND TOOLS

- .1 Only non-proprietary equipment will be accepted by the Owner and installed. This will include but not limited to controller, drive, motor, fixtures, and any inspection tools. Contractor to provide at the time of Tender a letter stating all equipment being installed is non-proprietary to the satisfaction of the Owner.
- .2 Provide prior to *Date of Substantial Completion*, all maintenance, repair, adjusting, and diagnostic or inspection tools to the Owner for review and approval.

1.12

MAINTENANCE AND OPERATING MANUALS

- .1 Prior to the *Date of Substantial Completion*, as established by the Consultant, provide to the Owner one (1) electronic digital copy and one (1) hard copy set of Maintenance and Operating Manual information, amended site specific and to include the following:
 - .1 Complete set of electrical wiring diagrams.
 - .2 Recommended lubrication and maintenance check chart of all major components and associated lubrication products to be used.
 - .3 Complete set of "As-built" approval drawings, latest revision, including main layout, and drawings neatly folded and inserted into the manual.
 - .4 Copy of TSSA Registration documentation for Lift and TSSA Inspection Certificate.

1.13

SEPARATE PRICES

- .1 Separate prices requested herein, are not included in the Tender Price and at the sole discretion of the Owner, may, or may not be, added to the Contract amount for the entire term of the Contract.
- .2 Separate pricing shall be provided with the Tender.
- .3 Separate pricing relating to Post Warranty Maintenance Services as outlined in Article 1.1.9 shall remain valid for the entire term of this Contract.
- .4 Separate pricing shall be inclusive of all Contractor overhead, margin, profit, taxes, labour and materials to carry out the prescribed task or project requirement. H.S.T. shall not be included.
 - .1 Maintenance every three (3) months from expiration of 12-month Maintenance Warranty included in base pricing. Note: Maintenance pricing identified in the Bid Form shall be based on the 1st year only of a five (5) year agreement with annual escalation not to exceed 3% and in accordance with Owner's Maintenance Service requirements.

1.14

BARRIER FREE REQUIREMENTS - Conform to in every regard as required by Code.

2. GENERAL LIFT INFORMATION

2.1 DESCRIPTION

INCLINED PLATFORM LIFT	
Number:	One (1)
Type:	Straight Inclined Platform Lift, Commercial
Daily Cycle:	Normal Usage
Platform Capacity:	250 kg (550 lbs)
Platform:	Auto-folding/unfolding
Platform Access Ramps:	Yes
Seat and Capacity:	Folding Seat Manual, 150 kg (330 lbs)
Building Support:	Block Wall
Support and Platform:	Standard
Nominal Speed:	0.075 m/s (15 fpm)
Travel Direction:	Both Directions Up, Down
Existing Rise:	1105 mm (43.5")
Inclination:	Per Existing
Platform Support:	Modular Steel Rails, Upper and Lower
Platform Size:	775 mm wide x 1250 mm long
Operation:	Keyed, Constant Pressure Operation
Controller:	24 Volt, Non-Proprietary, Relay Logic
Type of Drive:	Rack & Pinion
Motor:	0.66 HP
Remote Hall Controls:	Keyed, At Each Landings
Car Station:	One Platform Control Station with Pendant Control
Emergency Lowering:	Manual Lowering
Lift Flooring by IPL Contractor:	Non-skid

2.2 ARCHITECTURAL FINISHES

Floor Level Designation	Fixture
UL	Four Button Keyed
LL	Four Button Keyed

3 PRODUCTS AND DESCRIPTION

3.1 CONTROLLER AND LEVELING

- .1 Supply and install CSA approved relay logic non-proprietary controller located in the supporting mast.
- .2 Pre-wire and test all functions of controller before shipping.
- .3 All components within the controller including fuses, relays, and contactors are to be clearly identified.
- .4 Controller wiring to be installed in a professional and neat manner with proper connecting devices and terminal blocks permanently labeled. Labels shall correspond with electrical wiring diagrams.
- .5 Ground controller and all equipment to building Ground. Building Ground by others. The occurrence of a single accidental ground or short shall not defeat any safety device and shall not permit the elevator to start or run if the hoistway door or gate interlock is unlocked.
- .6 Ensure controller will continue to operate after loss of normal power.
- .7 Provide manual lowering
- .8 All limit switch and leveling device switches shall be located in a position to be inaccessible to unauthorized persons.
- .9 Normal terminal stopping devices shall be provided at top and bottom stop the lift positively and automatically.

3.2 EMERGENCY LOWERING

- .1 Provide the IPL with a manual hand-wheel capable of lowering the unit to the lowest landing.

3.3 WIRING

- .1 All wiring and electrical connections shall comply with applicable codes. Insulated wiring shall have flame-retardant and moisture-proof outer covering.

3.4 SAFETY FEATURES

- .1 Safety arms and platform ramps.
- .2 Upper and lower limit switches to stop the IPL and its platform at the floor landing for safe loading or unloading.
- .3 Safety sensors under the platform in the event of an obstruction to stop the IPL.
- .4 Safety sensors at the platform ramp edges and at the carriage to stop the IPL.
- .5 Final limit switches.
- .6 Over speed mechanical safety brake to bring the IPL to a stop in the event the IPL over speeds or a drive component failure occurs.
- .7 Lockable master power switch.
- .8 Safety arms which ensure passenger is safely in position before IPL moves.

3.5 HALL STATIONS

- .1 Provide surface mounted key restricted call stations constant pressure at both lower and upper level.
- .2 Hall buttons to be installed at accessibility height.
- .3 Hall buttons shall be labeled.
- .4 Hall buttons shall have the ability to fold/unfold platform.

3.6 PLATFORM

- .1 Steel platform with access ramps on ends add side ramps.
- .2 Lift shall have manufacturer's standard non-skid flooring.
- .3 A single round handrail with both ends returned to the side guard shall be located on the control wall of the carriage.

3.7 CAR OPERATING PANEL

- .1 Car Operating Panel shall consist of:
 - 1. Constant pressure buttons.
 - 2. Emergency stop button.
 - 3. Pendant control with key switch.

3.8 LIFT RAILS

- .1 Modular rails by Lift Contractor.

3.9 LICENSING, INSPECTION AND LIFT READINESS

- .1 Lift Contractor shall immediately after final adjusting activities are complete, schedule and carry out on site within 5 working days a TSSA inspection. Advise General Contractor and Consultant of initial Inspection date.
- .2 Lift Contractor shall provide copy of TSSA inspection certificate to both General Contractor and the Consultant upon completion of initial licensing inspection. Any General Contractor and/or Lift Contractor directives issued by the Authority shall be carried out expeditiously and without delay. Lift Contractor shall keep both General Contractor and Consultant informed at all times of completion of Lift directives and where re-inspection is required, advise General Contractor and Consultant of re-inspection date.
- .3 Following TSSA Inspection and licensing of Lift, Lift Contractor shall clean IPL thoroughly.
- .4 Remove all protective wrapping from all finishes.
- .5 Following Lift licensing, Consultant shall inspect Lift for conformance to contract specifications and any deficiencies issued in writing to either the General Contractor and/or Lift Contractor shall be completed within 3 business days of issuance of such deficiencies.

- .6 Consultant shall verify all deficiencies have been satisfactorily completed before the scheduling, training, and handover of the Lift to the Owner - refer to 3.14.

3.10 LIFT "OFFICIAL" TURNOVER AND TRAINING

- .1 All keys required for the operation of the Lift and copies of all maintenance and operational data inclusive of Warranty Certificate shall be turned over to the General Contractor prior to Date of Substantial Completion.
- .2 Provide at time of turnover, not less than eight (8) spare keys for the hall stations and platform operating station.
- .3 Include in base pricing, and prior to "official" handover, one (1) hour for on-site demonstration and training on the safe use and operation of the IPL in accordance with Regulations, as well as the complete overview and review of all turned over documentation.
- .4 This demonstration and training shall be coordinated by the IPL Contractor directly with the Owner at a time convenient with the Owner's schedule. The training shall be performed by qualified IPL Contractor personnel having extensive experience with all aspects of the controls and equipment installed. Owner shall be responsible for keeping and maintaining documentation of those trained for future TSSA reference.

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