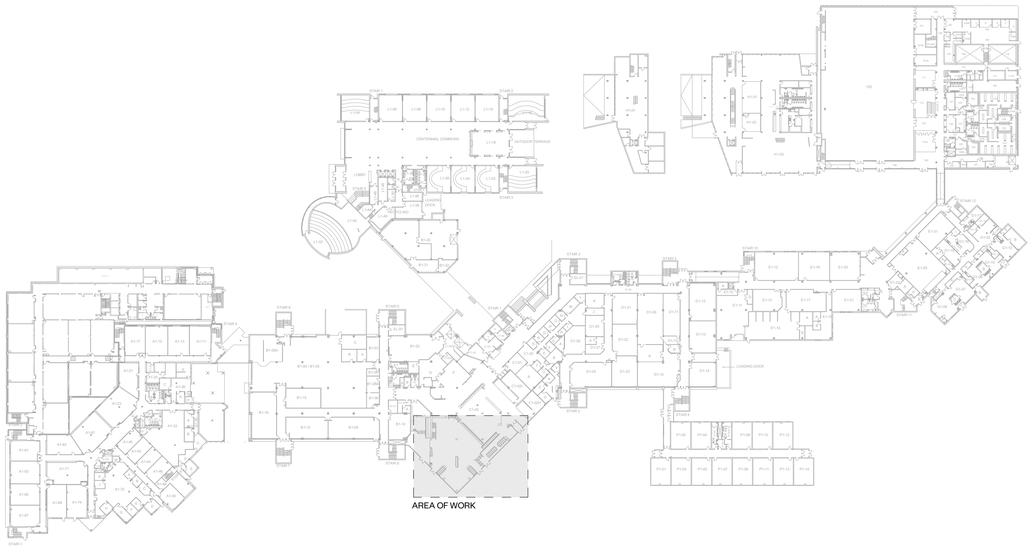


1 Key Plan
1 : 1000

Drawing List	
Number	**Name**
ARCHITECTURAL	
A0.0	Key Plan, Demolition Plan, Proposed Plan, Schedules
A1.0	Elevations & Specifications

Door A

NOTE: All glazing to be tempered

Door Schedule

Door No.	Type Mark	Height	Width	Door Mat'l	Finish	Frame Material	Frame Fin.	Card Reader	Power Door Operator	Comments
D001	A	2134	1867	ALUM	ALUM/TGL	ALUM	ALUM	Y	Y	Hardware Group 1
D002	A	2134	1867	ALUM	ALUM/TGL	ALUM	ALUM			Hardware Group 2
D003	A	2134	1867	ALUM	ALUM/TGL	ALUM	ALUM			Hardware Group 2
D004	A	2134	1867	ALUM	ALUM/TGL	ALUM	ALUM			Hardware Group 2
D005	A	2134	1867	ALUM	ALUM/TGL	ALUM	ALUM		Y	Hardware Group 3

General Notes

1. Site visit is required by General Contractor to verify site conditions. Contact Architect for clarification if required.

2. Make good all surfaces/areas/finishes damaged during demolition.

3. All dimensions are to face of partition unless noted otherwise.

4. Angles are 90 degrees unless noted otherwise.

5. Patch, repair and make good all existing finishes, partitions, bulkheads, and ceilings within area of work. Prepare existing surfaces as required to receive new finishes.

6. The General Contractor shall be responsible for all chases, openings (including scanning/x-ray where required) and patching as required by mechanical, electrical, plumbing and IT cabling trades. Review requirements with these trades.

7. The General Contractor shall be responsible for keeping access areas clean (eg: access to exit corridors, etc). Remove garbage and clean daily and as required. At the completion of the job, the General Contractor shall remove all protective materials and arrange for a professional cleaning service to clean/wipe down all surfaces, including walls, windows/glazing, sills, blinds and fixtures/fittings.

8. Site access, including working hours, for material delivery, work forces and for refuse removal is to be coordinated with the Owner.

9. All electrical and secuurity work shall be covered by Cash Allowance. Contractor is responsible for scheduling/coordinating with electrical and security trades within their base bid.

10. General Contractor is to co-ordinate and co-operate with trades retained directly by Owner as applicable (eg: furniture installers).

11. The General Contractor shall be responsible for scheduling the trades identified in item 10, where such work affects the progress of the job.

12. The General Contractor shall comply with all applicable Building and Fire Codes

13. Provide firestopping to all penetrations through fire separations.

14. Refer to building specific Designated Substances Report prior to commencing demolition. Follow Report recommendations for demolition of materials containing designated susstances. Follow report recommendations if materials are encountered which are suspected to contain designated substances.

Hardware

Hardware Group No. 001
For use on Door #(s): D001
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	QEL-3547A-EO 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-3547A-NL-OP-388 24 VDC	626	VON
1	EA	REQ TO EXIT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	UNK
2	EA	45 DEGREE OFFSET PULL	8145EZHD 12" STD	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4021	689	LCN
1	EA	AUTO OPERATOR / ACTUATORS	TO BE RE-USED		UNK
1	EA	FLUSH CEILNG MTG PLATE	4020-18G	689	LCN
1	EA	WEATHER STRIPPING	WEATHER STRIP BY DOOR SUPPLIER		UNK
2	EA	DOOR SWEEP	8192AA X DR WIDTH	AA	ZER
1	EA	THRESHOLD	625A (1 X WIDTH)	A	ZER
2	EA	WIRE HARNESS	CON-WIDTH		SCH
2	EA	WIRE HARNESS	CON-POWER SUPPLY		SCH
1	EA	CARD READER	TO BE RE-USED		UNK
2	EA	DOOR CONTACT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
1	EA	POWER SUPPLY	PS904 900-4RL 120/240 VAC	LGR	SCE

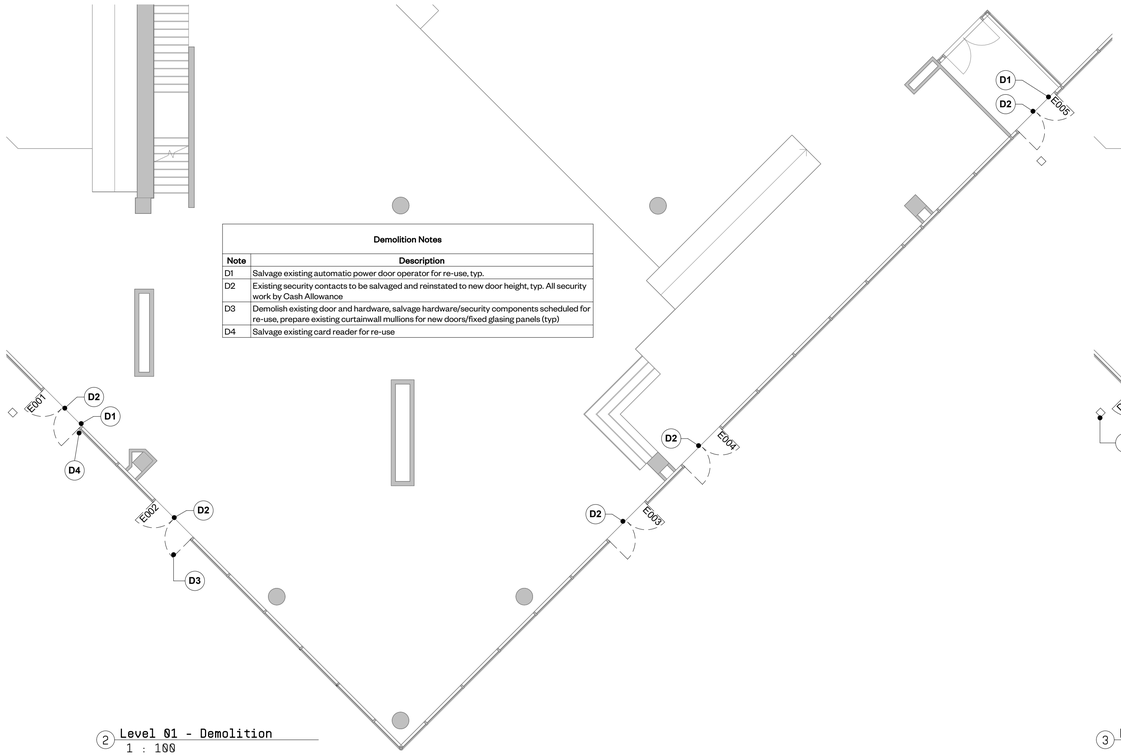
Hardware Group No. 002
For use on Door #(s): D002 D003 D004
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
2	EA	ELEC PANIC HARDWARE	QEL-3547A-EO 24 VDC	626	VON
1	EA	REQ TO EXIT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
2	EA	45 DEGREE OFFSET PULL	8145EZHD 12" STD	630	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4021	689	LCN
2	EA	FLUSH CEILNG MTG PLATE	4020-18G	689	LCN
1	EA	WEATHER STRIPPING	WEATHER STRIP BY DOOR SUPPLIER		UNK
2	EA	DOOR SWEEP	8192AA X DR WIDTH	AA	ZER
1	EA	THRESHOLD	625A (1 X WIDTH)	A	ZER
2	EA	WIRE HARNESS	CON-WIDTH		SCH
2	EA	WIRE HARNESS	CON-POWER SUPPLY		SCH
2	EA	DOOR CONTACT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
1	EA	POWER SUPPLY	PS904 900-2RS 120/240 VAC	LGR	SCE

Hardware Group No. 003
For use on Door #(s): D005
Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
2	EA	ELEC PANIC HARDWARE	QEL-3547A-EO 24 VDC	626	VON
1	EA	REQ TO EXIT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
2	EA	45 DEGREE OFFSET PULL	8145EZHD 12" STD		IVE
1	EA	OH STOP	100S	630	GLY
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4021	689	LCN
1	EA	AUTO OPERATOR / ACTUATORS	TO BE RE-USED		UNK
1	EA	FLUSH CEILNG MTG PLATE	4020-18G	689	LCN
1	EA	WEATHER STRIPPING	WEATHER STRIP BY DOOR SUPPLIER		UNK
2	EA	DOOR SWEEP	8192AA X DR WIDTH	AA	ZER
1	EA	THRESHOLD	625A (1 X WIDTH)	A	ZER
2	EA	WIRE HARNESS	CON-WIDTH		SCH
2	EA	WIRE HARNESS	CON-POWER SUPPLY		SCH
2	EA	DOOR CONTACT	PROVIDED BY CARD ACCESS CONTRACTOR		UNK
1	EA	POWER SUPPLY	PS904 900-4RL 120/240 VAC	LGR	SCE

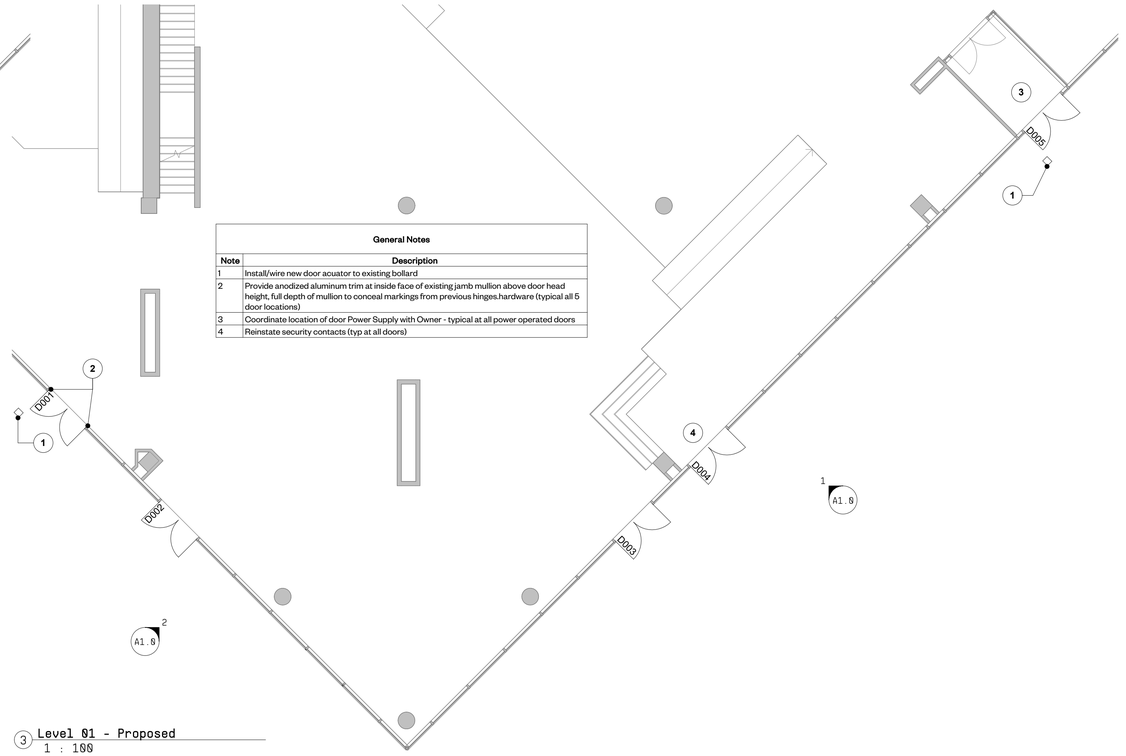
NOTES:
DOORS PART OF LOCKDOWN SYSTEM
LOCATION OF POWER SUPPLY TO BE COORDINATED ON SITE WITH OWNER
REMOVE AND REINSTATE CARD READER AND AUTO OPERATOR/ACTUATORS
REMOVE AND REINSTATE SECURITY CONTACTS



Demolition Notes

Note	Description
D1	Salvage existing automatic power door operator for re-use, typ.
D2	Existing security contacts to be salvaged and reinstated to new door height, typ. All security work by Cash Allowance
D3	Demolish existing door and hardware, salvage hardware/security components scheduled for re-use, prepare existing curtainwall mullions for new doors/fixed glasing panels (typ)
D4	Salvage existing card reader for re-use

2 Level 01 - Demolition
1 : 100



General Notes

Note	Description
1	Install/wire new door acuator to existing bollard
2	Provide anodized aluminum trim at inside face of existing jamb mullion above door head height, full depth of mullion to conceal markings from previous hinges.hardware (typical all 5 door locations)
3	Coordinate location of door Power Supply with Owner - typical at all power operated doors
4	Reinstate security contacts (typ at all doors)

3 Level 01 - Proposed
1 : 100

Rev	Description	Date
1	Issued for Client Review	18 Jan 2023
2	Issued for Tender	22 Feb 2023

Plan Legend

Shaded area indicates scope of work

Demolition Legend

EXX Existing door/hardware to be demolished, salvage items scheduled for re-use

Symbols Legend

DXXX New Door as scheduled

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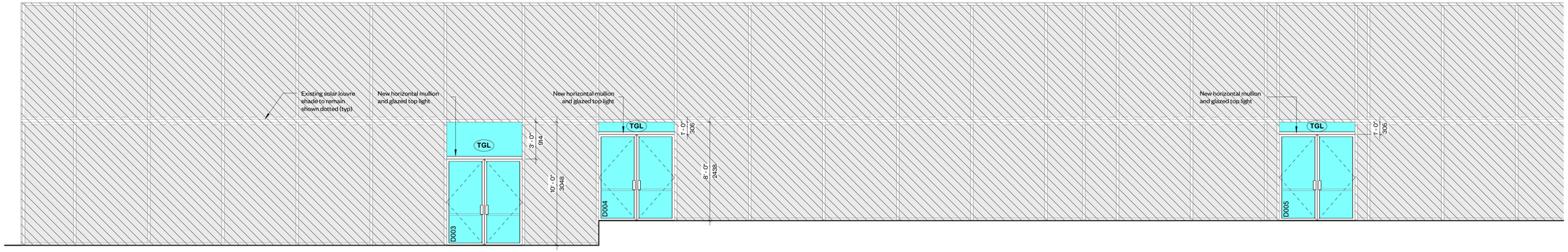
PROJECT CODE:	SCALE:
2300A	As indicated
DATE:	STATUS:
2023-01-18	**Client Review**

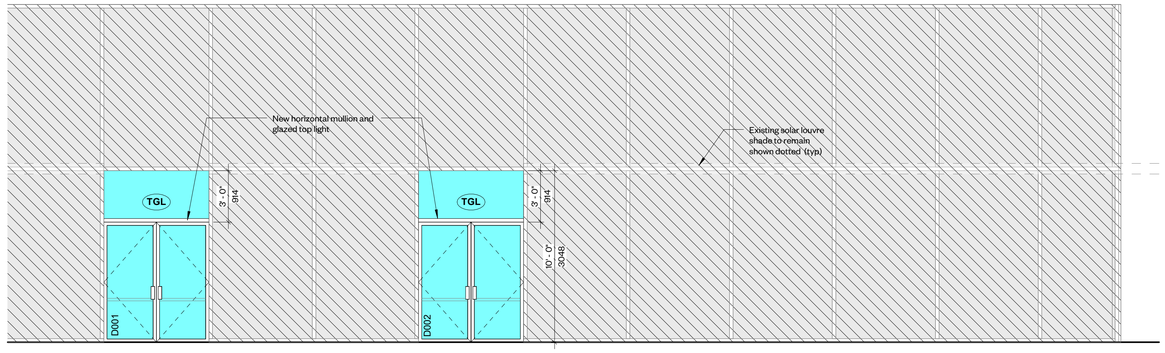
Key Plan, Demolition Plan, Proposed Plan, Schedules

Project North

drawing number
A0.0



1 Partial East Elevation
1 : 50



2 Paritial South Elevation
1 : 50

SPECIFICATIONS

General Requirements

1.1 Building Permit is not required for this project. All other permits, licenses and inspections necessary to complete the work shall be obtained by Contractor and/or sub-contractor.

1.2 Confine work to area of the project only. Provide temporary dust tight partitions and hoarding as required to minimize impact of the Work on the remainder of the building. Shutdowns (power, water, etc.) to be coordinated with the Owner in advance.

1.3 Submittals. Submit samples/shop drawings in duplicate for the following items: aluminum doors, door hardware, glazing. Provide closeout submittals at project completion as per item 1.7

1.4 Contractor to maintain WSIB coverage and any commercial liability insurance as agreed with Owner. Contractor to ensure all necessary insurance is included/ maintained.

1.5 Cleaning- Maintain the Work in tidy condition, free from accumulation of waste and debris. Thoroughly clean entire project area at completion of work.

1.6 Warranty. Provide written warranty for all new materials/workmanship for 1 year from the date of Substantial Performance of the Work.

1.7 Closeout Submittals: provide Operations & Maintenance Manuals in digital and hard copy format consisting of Contract; names, addresses, and telephone numbers of Consultants and Contractor/subtrades with names of responsible parties; schedule of all products and systems. Include all test certificates/reports and warranty letters. Provide as-built drawings in digital format (AutoCAD).

Division 8 - Openings

8.1 Glazed Aluminum Curtian Wall

8.1.1 This Section includes requirements for design, supply and installation of a low-rise, four-sided capped glazed curtain wall system consisting of, but not limited to, the following:
- .1 Fixed, low emissivity (Low E) sealed glass units.
- .2 Extruded aluminum glazed doors for swing operation, reinforced as required to withstand traffic conditions

8.1.2 Reference Standards:
- .1 ASTM B209-14, Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- .2 ASTM E283-04(2012), Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- .3 ASTM E330/E330M-14, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- .4 ASTM E331-00(2016), Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference

8.1.3 Design and Performance Requirements
- .1 Within parameters specified assume complete design responsibility for entire curtain wall system.
- .2 Design, fabricate and erect curtain wall system to meet or exceed the minimum requirements identified in this Section.

8.1.4 Submittals
- .1 Furnish complete shop and erection drawings required for the work of this Section to the Consultant for review prior to fabrication.
- .2 Shop drawings shall incorporate plans, elevations, sections and details for all work in this Section. The details shall show and specify all metal and glass thicknesses, types and finishes, areas to be sealed and sealant materials, gaskets, glazing methods, direction and magnitude of thermal expansion, type of construction including joinery, fasteners and welds, all anchorage assemblies and components, the fabrication and erection tolerances for the work in this Section.

8.1.5 Warranty
- .1 Warrant work of this Section against any defects in materials and workmanship in accordance with the General Conditions, but for a period of two (2) years and agree to promptly and without cost to Owner make good defects which become evident during warranty period. Without restricting the generality of the warranty, defects shall include leaking, deformation of members, breaking of glass due to thermal or structural movement, discolouration of finishes and failure of sealants.

8.1.6 Description of Work
- .1 Responsibility: Professional Engineer is responsible for designing glazed aluminum curtain wall system based on design loads and reactions provided by the Consultant, and verifying that safety factor is appropriate for intended installation and meets requirements of the Authority Having Jurisdiction.

8.1.7 Materials
- .1 Aluminum:
  - .1 Extrusions: AA6063-T5 alloy, anodizing quality, conforming to ASTM B221-12.
  - .2 Plate and Sheet: AA1100-H14 alloy, anodizing quality unless otherwise indicated minimum 0.125" thick, conforming to ASTM B209-10, with special hardness for flat aluminum spandrel panels.
  - .3 Exposed surfaces of aluminum shall be free of die marks, scratches, blisters, "leave-off" marks, or other blemishes, whether left unfinished or finished.
- .2 Glazing - as per 8.3

8.1.7 Curtain Wall Framing
- .1 Manufacturer's standard extruded aluminum framing members of thickness required and reinforced as required to support imposed loads.
- .2 Exterior Frame – Curtain Wall:
  - .1 Construction: Thermally broken, pressure plate glazed.
  - .2 Dimensions of Frame Profile: 2.5" sightline (to match existing - site verify); Glazing throat to accommodate insulated glazing units indicated in Section 8.3
  - .3 Cover: Matching width of frame profile, and supplied by aluminum framed entrance and storefront manufacturer to ensure compatibility.
  - .4 Glazing Method: Glazed from exterior.
  - .5 Installation Method: Single span, storefront.
  - .6 Basis of Design Materials: Alumicor Limited; Thermawall 2600; Windspec Inc.; 5500HTP; Commdoor; Series 8000; or approved equivalent.

8.1.8 Aluminum Entrance Swing Doors
- .1 Manufacturers extruded aluminum glazed doors for manual swing operation, reinforced as required to withstand traffic conditions.
- .2 Exterior Door Type – Wide stile, high-performance, polyamide strut thermal break; 57.2mm (2-1/4") thick.
- .3 Glazing Infill: Standard 25mm (1") thick.
- .4 Dual weather-stripping.
- .5 Mechanically fastened and welded corner construction for strength and durability
  - .1 Stiles: 100mm (4")
  - .2 Top Rail: 98mm (3-7/8")
  - .3 Bottom Rail: 178mm (7")
- .6 Basis-of-Design Material: ThermaPorte 7700 by Alumicor Limited, Series 4300 Thermal Doors by Commdoor, Insulclad by Windspec or approved equivalent.

8.1.9 Fabrication
- .1 Fit and assemble component parts in shop as far as practicable. Work that cannot be permanently shop assembled shall be fitted, assembled, marked and disassembled to assure proper fitting in field. Identify shop assembled components on shop drawings for location and erection at Site.
- .2 Reinforce members as required to withstand loads and to maintain deflection within allowable limits.
- .3 Internally reinforce framing members where work of other trades is to be fastened thereto.
- .4 Install all door hardware on doors. Test all doors on completion of installation and adjust as required for smooth and efficient operation.

8.1.10 Finish
- .1 Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- .2 Exposed aluminum surfaces To AA-M10C21A41, Architectural Class I, anodized 18 µm (0.0007 inches) minimum thickness, colour: clear (unless noted otherwise).

8.1.11 Erection
- .1 Erect curtain wall system plumb, level and square, in correct relation to work of other Sections, within a maximum non-cumulative deviation of 1/8" per 12' length of member, and with members accurately fitted and aligned at joints and intersections.
- .2 Provide flashings, fillers, covers and sealants indicated and as required to render system weathertight and to meet specified performance criteria. Ensure effective seal at laps, end joints and changes of direction.
- .3 Provide continuity of thermal and air seal/vapour barriers with adjacent thermal and air seal/vapour barrier systems.
- .4 Use concealed fastenings only.

8.1.12 Final Cleaning
- .1 Remove protective coatings and coverings from prefinished components; clean structural components and fittings; remove excess sealants and other substances that detract from finished appearance after completion of installation.

8.2 Door Hardware - as scheduled

8.3 Glazing

8.3.1 Design, labour, products, equipment, tools, and services necessary for glass and glazing work in accordance with the contract documents.

8.3.2 References
- .1 CAN/CGSB-12.1-M, Tempered or Laminated Safety Glass.
- .2 CAN/CGSB-12.3-M, Flat, Clear Float Glass.
- .3 CAN/CGSB-12.8, Insulating Glass Units.

8.3.3 Design Requirements
- .1 Design glass to CAN/CGSB-12.20-M. Perform stress analysis. Design units to accommodate live, dead, lateral, wind, seismic, handling, transportation, and erection loads.

8.3.4 Submittals
- .1 Submit shop drawings for fabrication and erection of glazing elements indicating materials, thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories. Submit 1 sample of each type of insulating glass unit.

8.3.5 Acceptable Manufacturers
- .1 Oldcastle Building Envelope.
- .2 PPG Industries Ltd.
- .3 Pilkington
- .4 Prelco Architectural Glass Products

8.3.6 Materials
- .1 Float Glass: In accordance with CAN/CGSB-12.3, glazing quality, Clear Glass: No tint
- .2 Tempered Glass (TGL): Clear, conforming to CAN/CGSB-12.1, Type 2, Class 'B'. Tempering shall be performed using horizontal tong free method.
- .3 Gaskets: Neoprene/EPDM thermoplastic rubber type gaskets of sufficient thickness to be compressed 25% when installed, having 2,000 psi tensile strength, with 50 durometer shore A hardness plus/minus 5, maximum 30% resistance to permanent set, resistance to ozone without cracking, minimum elongation at break of 300% and conforming to ASTM C542. Colour - "Black".
- .4 Sealant: One component, silicone base, solvent curing sealant conforming to ASTM C920. Colour as selected Later by Consultant.
- .5 Setting Blocks: Neoprene/EPDM rubber type, 4" long, with 40 to 50 durometer shore A hardness plus/minus 5; resistant to sunlight, weathering, oxidation and permanent deformation under load and wide enough to extend from fixed stop to opposite face of glass of thickness suitable to glazing condition to provide adequate glazing "bite".
- .6 Glazing Tape: Macro-polyisobutylene preformed glazing tape, 'Polyshim' or 'Vision Strip' by Tremco Ltd., division of RPM Company, or approved equal.

8.3.7 Sealed Insulating Glass Units
- .1 At all exterior doors and windows unless noted otherwise, 25mm overall thickness.
  - .1 Clear TGL outboard lite, minimum 4mm thickness.
  - .2 Low-E coating to #2 surface (as per8.3.7.3).
  - .3 Hermetically sealed, dehydrated air space, argon filled
  - .4 Clear TGL inboard lite, minimum 4mm thickness.
- .2 Glass Unit Performance Requirements:
  - .1 Visible Light Transmittance (VLT): 62 minimum
  - .2 U-Value: 0.28 (IP) maximum
  - .3 Solar Heat Gain Coefficient (SHG): .38 maximum
- .3 Low-E Coating:
  - .1 Low-E coating; High performance sputtered low-E coating. Provide insulating glass units with low-E coating edge deletion and low-E coating. Apply low-E coating to second surface unless otherwise indicated. Solarban 70XL by PPG Industries Inc, SunGuard SN68 by Guardian or equivalent capable of achieving performance values outlined in Section 8.3.7.2

8.3.8 Installation
- .1 Provide glazing in accordance with IGMA recommendations. Provide continuous contact between glazing tapes and gasket to the glazing.
- .2 Provide neat, straight sight lines. Trim excess glazing material flush with top of stops and fixed leg of frames.
- .3 Apply primer/sealer to contact surfaces, prior to glazing.
- .4 Apply glazing tape as per manufacturer's instructions including recommended corner sealant.
- .5 Re-install glazing stops ensuring continuous contact and rattle-free installation. Do not distort glass. Trim tape protruding more than 2 mm above stop.
- .6 Install glazing gasket in accordance with manufacturer's recommendations
  Glaze units with sealant on exterior side and glazing tape on interior side. Seal gap between glazing and stop with sealant to depth equal to bite of frame. Apply cap head of sealant along void between stop and glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.

Rev	Description	Date
1	Issued for Client Review	18 Jan 2023
2	Issued for Tender	22 Feb 2023

Materials Legend

EXIST	Existing
PT	Paint Finish
TGL	Tempered Glass

Curtain Wall Legend

Existing curtain wall framing/glazing to remain

New curtain wall framing/glazing/doors to be installed under this contract

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PROJECT CODE:	SCALE:
2300A	As indicated
DATE:	STATUS:
2023-01-18	**Client Review**

Elevations & Specifications

drawing number

A1.0