CITY OF TORONTO

SPADINA MUSEUM GARAGE RESTORATION AND SITE ACCESSIBILITY

285 SPADINA ROAD, TORONTO, ON M5R 2V5 ISSUED FOR 100% DESIGN DEVELOPMENT

ARCHITECTURAL:

COVER PAGE, DRAWING LIST & CONTEXT PROPOSED SITE PLAN OBC MATRIX & FIRE SEPARATION EX. BASEMENT PLAN - DEMOLITION EX. GROUND FL. PLAN - DEMOLITION EX. 2ND FL. PLAN - DEMOLITION EX. BASEMENT FLOOR PLAN - PROPOSED EX. GROUND FLOOR PLAN - PROPOSED EX. 2ND FLOOR PLAN - PROPOSED EX. ROOF PLAN - PROPOSED BASEMENT RCP - DEMOLITION & PROPOSED GROUND FLOOR RCP - DEMOLITION & PROPOSED SECOND FLOOR RCP - DEMOLITION & PROPOSED WEST AND NORTH ELEVATIONS - RESTORATIONS EAST AND SOUTH ELEVATIONS - RESTORATIONS CROSS SECTION **CROSS SECTION** WALL SECTIONS

A501 WALL SECTIONS
A700 INTERIOR ELEVATIONS - RAMP DETAILS
A702 INTERIOR ELEVATIONS - KITCHEN DETAILS
A703 INTERIOR ELEVATIONS - UTR AND STAFF WASHROOM
A800 FINISHES PLAN
A801 FINISHES PLAN AND SCHEDULE
A901 SCHEDULE - DOOR TYPES AND FRAMES
A902 SCHEDULE - GLAZING

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S1.1 FOUNDATION PLAN
S2.1 MAIN FLOOR FRAMING PLAN
S2.2 SECOND FLOOR FRAMING PLAN
S2.3 ROOF FRAMING PLAN
S3.1 SECTION
S4.1 STRUCTURAL NOTES

MECHANICAL

GENERAL NOTES, LEGENDS AND SCHEDULES BASEMENT - PLUMBING - DEMOLITION BASEMENT - PLUMBING - BELOW GRADE - MODIFICATION BASEMENT - PLUMBING - ABOVE GRADE - MODIFICATION GROUND FLOOR - PLUMBING - DEMOLITION GROUND FLOOR - PLUMBING - MODIFICATION SECOND FLOOR - PLUMBING - DEMOLITION SECOND FLOOR - PLUMBING - MODIFICATION BASEMENT - HVAC - DEMOLITION M-301 BASEMENT - HVAC - MODIFICATION GROUND FLOOR - HVAC - DEMOLITION M-303 GROUND FLOOR - HVAC - MODIFICATION SECOND FLOOR - HVAC - DEMOLITION M-305 SECOND FLOOR - HVAC - MODIFICATION M-306 ATTIC - HVAC - MODIFICATION BASEMENT - HYDRONICS - MODIFICATION GROUND FLOOR - HYDRONICS - MODIFICATION M-503 SECOND FLOOR - HYDRONICS - MODIFICATION M-1000 DETAILS

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LANDSCAPE

E-1000

1 LANDSCAPE PLAN
2 LANDSCAPE DETAILS
3 LANDSCAPE DETAILS

DETAILS







3 CONTEXT
A-0 N.T.S.



1 DRAWING LIST

4 PROPOSED FRONT ELEVATION
A-0 N.T.S.

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5 JUN.19,2023 50% CONTRACT DOCUMENTS

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION
6 12 JUL. 2023 95% REVIEW

REVISIONS

ISSUE

ORIENTATION

Stevens Burgess Architects Ltd

CLIENT:

CITY OF TORONTO ECONOMIC DEVELOPMENT AND CULTURE MUSEUM AND HERITAGE SERVICES METRO HALL, 8TH FLOOR, TORONTO, ON M5V 3C6

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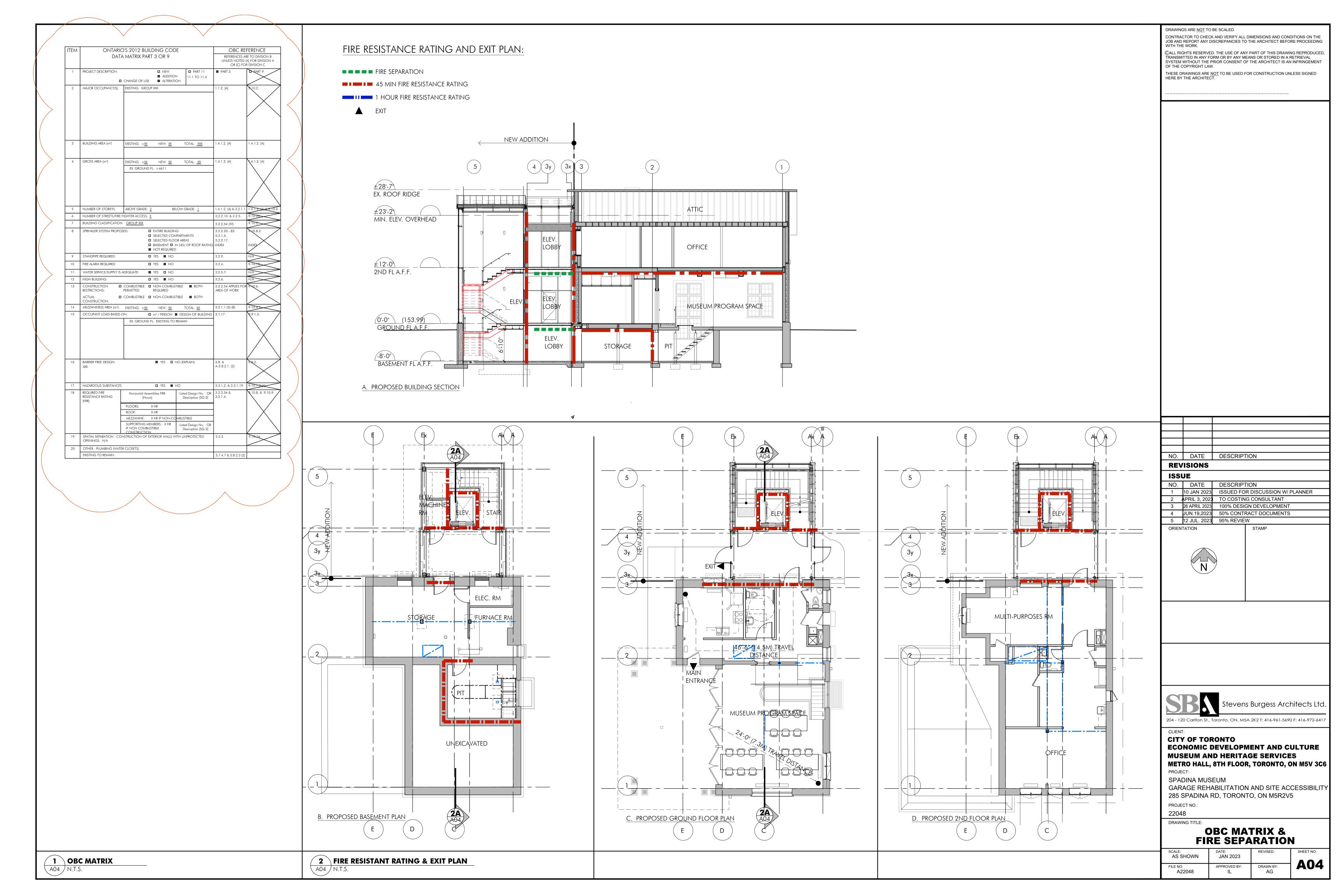
PROJECT:
SPADINA MUSEUM

SPADINA MUSEUM
GARAGE REHABILITATION AND SITE ACCESSIBILITY
285 SPADINA RD, TORONTO, ON M5R2V5
PROJECT NO.:

22048

DRAWING TITLE

COVER PAGE, DWG. LIST & CONTEXT



YPE	DETAILS	DESCRIPTION	REQ. F.R.R./REFERENCE/NOTES
E1>A		EXISTING FOUNDATION WALL:	
		- EX. CONCRETE FOUNDATION WALL.	
	}	- CUT FOUNDATION WALL/FOOTING TO SUIT INSTALLATION OF NEW FOUNDATION WALL/FOOTING MODIFY EXISTING WEEPING TILE AND CONNECT NEW WEEPING TILE TO	
		EXISTING. - MCCHANICALLY REMOVE UNEVEN SURFACE AT ELEVATOR LOBBY SIDE AND	
		PREPARE FOR NEW CEMENT PARGING	
E1)B		EXISTING FOUNDATION WALL:	
		- HENRY DRAINAGE BOARD DB 2000.	
		- 1/8" (3MM) HENRY 790-11 SYSTEM INSTALLED BY MANUFACTURER APPROVED APPLICATOR AS SPECIFIED BELOW:	
		- 1 COAT OF RUBBERIZED ASPHALT 1 SHEET POLYESTER FABRIC REINFORCEMENT.	
		- 1 COAT OF RUBBERIZED ASPHALT PRIMER - EX. CONC. FOUNDATION WALL.	
		EXISTING EXTERIOR WALL (ON GROUND FL):	INSULATION UPGRADES NOT REQ.
E2)A		- EX. STONE CLADDING	FOR EX. BLDG.
		- EX. AIR SPACE - REMOVE EXISTING LATH AND PLASTER - 6" THK. NEW BATT INSULATION	R21 PROVIDED (R3.5/INCH)
		- EX. EXTERIOR SHEATHING. - EX. 2X6 WOOD STUDS. BETWEEN STUDS (ROCKWOOL COMFORTBATT) (AT EXTERIOR WALL ONLY)	
		- EX. METAL LATH AND PLASTER EX. FINISH ONLY) - NEW AIR VAPOUR BARRIER (AT EXTERIOR WALL ONLY)	
		- NEW 5/8" SHEETROCK GWB. - NEW FINISH	
<u>2</u> ≥B		EXISTING EXTERIOR WALL (ON 2ND FLOOR):	INSULATION UPGRADES NOT REQ. FOR EX. BLDG.
		- EX. STUCCO FINISH (ASSUME STUCCO ON METAL LATH ON 1X2 FURRING STRIPS) - EX. WATERPOOFING MEMBRANE.	FOR EX. BLDG. R21 PROVIDED (R3.5/INCH)
	<u>Xanyanyanya</u>	- EX. EXTERIOR SHEATHING REMOVE EXISTING LATH AND PLASTER - EX. 2X6 WOOD STUDS 6" THIK. NEW BATT INSULATION	
		- EX. METAL LATH AND PLASTER EX. FINISH BETWEEN STUDS (ROCKWOOL COMFORTBATT) (AT EXTERIOR WALL	
		ONLY) - NEW AIR VAPOUR BARRIER (AT EXTERIOR	
		WALL ONLYO - NEW 5/8" SHEETROCK GWB.	
		- NEW FINISH	
E3>		EX. INTERIOR WALL (FOR WALLS TO REMAIN)	
-	No.	- NEW FINISH - REPLACE EX. METAL LATH AND PLASTER WITH NEW 5/8" TYPE X GYPSUM.	
		- REPLACE EX. METAL LATH AND PLASTER WITH NEW 5/8" TYPE X GYPSUM. - EX. 2X4 WD STUD - REPLACE EX. METAL LATH AND PLASTER WITH NEW 5/8" TYPE X GYPSUM.	
	, '	- NEW FINISH	
		EV INTERIOR WALL (FOR WALLS TO SELVE)	
E4>		EX. INTERIOR WALL (FOR WALLS TO REMAIN)	
	M	- NEW FINISH - REPLACE EX. METAL LATH AND PLASTER WITH NEW 5/8" TYPE X GYPSUM. - EX. 2X4 WD STUD	
	GARAGE 101 SIDE	- EX. 2X4 WD STUD - EX. CEMENTICIOUS PLASTER FINISH TO REMAIN AT GARAGE SIDE	
√)		NEW FOUNDATION WALL:	R-15 ci REQUIRED. R-15 ci PROVIDED.
_		- FROM 6" (150MM) BELOW GRADE TO TOP OF FOUNDATION INSTALL CEMENT PANEL PARGED OR TECH-CRETE INSULATED WALL PANELS WHERE FOUNDATION IS	REFER TO STRUCTURAL FOR
		EXPOSED ABOVE GRADE SIKA DRAINAGE MAT 420	REINFORCING AND WALL THICKNESS.
		- 3" (75MM) RIGID EXTRUDED POLYSTYRENE INSULATION WITH SHIPLAPPED EDGES (R5 PER INCH = R15 ci)	
		- SIKAPROOF A12 CONTINUOUS WATER PROOFING MEMBRANE - 10" (250MM) ??? REINFORCED CONCRETE ON FOOTING - 4" DIA. WEEPING TILE & FILTER FABRIC AROUND FOOTING, COVERED WITH 6" OF	
		- 4" DIA. WEEPING TILE & FILTER FABRIC AROUND FOOTING, COVERED WITH 6" OF CRUSHED STONE. - CAPILLARY BREAK BETWEEN WALL/FOOTING, WALL/SLAB, AND FOOTING/SLAB.	
		- SKIAPROOF A12 CONTINUOUS UNDER FOOTING AND SLAB WATERPROOFING MEMBRANE.	
		- ARCHITECTURAL CONCRETE FINISH ON EXPOSED INTERIOR SIDE.	
√2 >		NEW EXTERIOR ALUM. CURTAIN WALL SYSTEM	
ك		- CURTAIN WALL SYSTEM (6" DEPTH FOR EAST AND WEST WALLS, 10 1/2" DEPTH FOR NORTH WALL)	
		- SPRAY FOAM INSULATION TO FILL FRAME CAVITY. - 1" INSULATED GLAZING UNIT.	
		- SUPPORTING CHANNEL STEEL REINFORCING TO SUIT (PROVIDED BY CURTAIN WALL SUPPLIER)	
√3>		NEW INTERIOR CONCRETE WALL FOR ELEVATOR SHAFT TO U/S OF ROOF DECK	FRR 45 MIN. REQUIRED. FRR 2.5H PROVIDED (REF. WALL TYPE
- 7	1	- 8" (203MM) CONCRETE BLOCK REINFORCED AND GROUTED. TOP OF BLOCK TO FOLLOW SLOPED ROOF DECK.	B2d, SB-3)
		- 5/8" TYPE X. GWB - FINISH	
V4>		NEW STANDING SEAM WALL	R-17 ci REQUIRED. R-22.5 ci PROVIDED.
_		- 0.8mm RHEINZINK 1.5" SINGLE LOCK STANDING SEAM (ENGINEERING SHOP DRAWING TO INCLUDE SHEET METAL, GAUGE, SUB-GIRT SYSTEM AND STEEL STUDS)	45 MIN. FRR REQUIRED.
		- 1/2" AIR SPACE (GIRT ANGLE TO PROTRUDES 1/2" FROM FACE OF INSULATION) - 2" (50mm) MINERAL WOOL SEMI-RIGID INSULATION	60 MIN. FRR PROVIDED (UL U425, ULC-S101)
		- 4" (100mm) MINERAL WOOL SEMI-RIGID INSULATION - SUB-GIRT SYSTEM, SIZE TO SUIT (GALVANIZED "Z" GIRT ANGLES WITH ISO CLIPS AND	REFER TO STRUCTURAL FOR
		THERMAL ISOLATOR). - INSULATION LAYERS ADHERED IN ADHESIVES, STAGGER INSULATION PANEL JOINTS.	REINFORCING AND WALL THICKNESS.
		- HENRY BLUESKIN SA SELF-ADHERED AIR-VAPOR BARRIER - 5/8" (16mm) DENSGLASS EXTERIOR SHEATHING.	
		- 2X6 (0.8mm, 20 GAUGE) STRUCTURAL STEEL STUDS @ 24" O.C. (FILL STUD CAVITY WITH BATT INSULATION, FULL HEIGHT, "ROXUL SAFE "N" SOUND, TO MAINTAIN FIRE RESISTANT RATING BETWEEN ELEVATOR LOBBY AND STAIR C & D. SEE DWG. A104 &	
		A105) - 5/8" (16mm) DENSARMOR PLUS FIREGUARD	
		- FINISH	
		NEW INTERIOR WALL (TO U/S OF RATED ASSEMBLY)	FRR 60 MIN. REQUIRED. FRR 60 MIN. PROVIDED (REF. S2a,
W.S.		- FINISH.	SB-3) STC 36
W5 >			1
₩ 5 >		- 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND)	
W\$		- 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL	
		- 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - (2) 5/8" TYPE X GYPSUM BOARD	
₩ \$		- 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - (2) 5/8" TYPE X GYPSUM BOARD - FINISH. NEW INTERIOR WALL (TO U/S OF CEILING): - FINISH.	
		- 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - (2) 5/8" TYPE X GYPSUM BOARD - FINISH. NEW INTERIOR WALL (TO U/S OF CEILING):	

₩ <u>\$</u> +		NEW INTERIOR WALL (TO U/S OF RATED ASSEMBLY): - FINISH 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - 5/8" TYPE X GYPSUM BOARD - FINISH.	FRR 45 MIN. REQUIRED. FRR 45 MIN. PROVIDED (REF. S1a, SB-3) STC 36
	4 <u>8</u>	NEW SHAFT WALL (TO U/S OF RATED ASSEMBLY) - FINISH 5/8" (16mm) FIRECORE GYPSUM PANEL - 2 1/2" (64mm) CGC C-H STUDS 0.5mm (25 GAUGE) @ 24" O.C 1" (25mm) GYPSUM LINER PANEL	FRR 45 MIN. REQUIRED. FRR 60 MIN. PROVIDED (ULC W452)
₩ 8		NEW INTERIOR WALL (INFILL WALL AROUND ELEVATOR DOOR ROUGH OPENING): - (2) 5/8" TYPE X GYPSUM BOARD 2X4 METAL STUD @ 16" O.C. WITH BATT INSULATION (ROXUL SAFE "N" SOUND) - (2) 5/8" TYPE X GYPSUM BOARD - FINISH.	FRR 90 MIN. REQUIRED. FRR 120 MIN. PROVIDED (REF. WALL #S6B, SB-3) STC 55
(W)		NEW INTERIOR WALL (TO U/S OF CEILING: - FINISH - 5/8" TYPE X GYPSUM BOARD (1/2" GYPSUM BOARD @ GROUND FLOOR ELEVATOR LOBBY ONLY - 2X4 METAL STUD @ 16" O.C. - SPRAY FOAM INSULATION WITHIN STUD CAVITY (@ GROUND FLOOR ELEVATOR LOBBY ONLY)	
₩ 9+		NEW INTERIOR WALL (TO U/S OF RATED ASSEMBLY): - (2) 5/8" TYPE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C.	FRR 60 MIN. REQUIRED. FRR 60 MIN. PROVIDED (OBC, TABLE 2.3.12, SB-2)
(1)		NEW INTERIOR WALL (TO U/S OF CEILING) - FINISH 5/8" MOLD TOUGH @PANELS FIRECODE X GYPSUM BOARD - 2X4 METAL STUD @ 16" O.C 5/8" MOLD TOUGH @PANELS FIRECODE X GYPSUM BOARD - FINISH.	
(1)		NEW INTERIOR WALL (TO U/S OF CEILING) - FINISH - 5/8" TYPE X GYPSUM BOARD 2X4 WOOD STUDS @ 16" O.C 5/8" TYPE X GYPSUM BOARD - FINISH	
(1)		NEW INTERIOR WALL (TO U/S OF CEILING) - FINISH - 5/8" TYPE X GYPSUM BOARD 2X4 WOOD STUDS @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - 5/8" TYPE X GYPSUM BOARD - FINISH	
€ 13		NEW INTERIOR WALL (TO U/S OF CEILING) - FINISH - 5/8" TYPE X GYPSUM BOARD 2X6 WOOD STUDS @ 16" O.C. WITH SOUND ABSORPTIVE BATT INSULATION (ROXUL SAFE "N" SOUND) - 5/8" TYPE X GYPSUM BOARD - FINISH	

FLOOR ASSEMBLIES

TYPE	DETAILS	DESCRIPTION	REQ. F.R.R./REFERENCE/NOTES
F		EXISTING CONCRETE FLOOR (BASEMENT): - EX. CONC. SLAB. - MODIFIED CONC. SLAB TO SUIT NEW FOOTINGS AND TRENCHING FOR MECHANICAL. - MAKE GOOD EX. CONC. SLAB.	
€ F 沙		EXISTING WOOD FLOOR (GROUND FL, BETWEEN GRID 3 & 2): - REPLACE EX. FINISH WITH NEW FINISH EX. SUB FLOOR CUT EX. WOOD JOISTS (2X10 @ 16" O.C.) FOR INSTALLATION OF NEW BEAMS. (REFER TO STRUCTURAL) (ASSUME EX. WOOD JOISTS FRR. 10 MIN.) - NEW BEAMS (REFER TO STRUCTURAL) - NEW 5/8" (15.9MM) TYPE X GYPSUM BOARD (FRR. 40 MIN.) - NEW FINISH	FRR 45 MIN. REQUIRED FOR COMBUSTIBLE CONSTRUCTION FRR 50 MIN. PROVIDED. REF. TABLE 2.3.4.B & 2.3.4.F IN SB-2.
€F3		EXISTING WOOD FLOOR (2ND FLOOR, BETWEEN GRID 1 & 2): - REPLACE EXISTING FINISH WITH NEW FINISH EX. SUB FLOOR EX. 2X10 WOOD JOISTS (ASSUME JOIST SPACING AT 16" O.C.) (ASSUME FRR 10MIN.) - EX. CEMENTITIOUS PLASTER FINISH TO REMAIN NEW 5/8" TYPE X GYPSUM BOARD (FRR. 40MIN.) - NEW FINISH	FRR 45 MIN. REQUIRED FOR COMBUSTIBLE CONSTRUCTION FRR 50 MIN. PROVIDED. REF. TABLE 2.3.12 IN SB-2.
€ F 4		EXISTING WOOD FLOOR (2ND FLOOR, BETWEEN GRID 2 & 3): - REPLACE EXISTING FINISH WITH NEW FINISH - EX. SUB FLOOR EX. 2X10 WOOD JOISTS (ASSUME JOIST SPACING AT 16" O.C.) (ASSUME FRR 10MIN.) - REPLACE EX. LATH AND PLASTER PLASTER WITH NEW 5/8" TYPE X GYPSUM BOARD (FRR. 40 MIN.) - NEW FINISH	FRR 45 MIN. REQUIRED FOR COMBUSTIBLE CONSTRUCTION FRR 50 MIN. PROVIDED. REF. TABLE 2.3.4F AND 2.3.4B IN SB-2.
(FI)		NEW CONCRETE SLAB IN BASEMENT: - FINISH. - 4" (100MM) POURED IN PLACE CONCRETE - SIKAPROOF A WATERPROOFING MEMBRANE - 4" MOULDED POLYSTYRENE INSULATION (R=5 PER INCH. TOTAL R=20) - 4" CRUSHED STONE - MIN. 6" COMPACTED GRANULAR	R-16.4ci REQUIRED. R-20 ci PROVIDED.
(F2)		NEW ELEVATOR BASE SLAB: - 12" THK. POURED IN PLACE CONCRETE - SIKAPROOF A WATERPROOFING MEMBRANE - MIN. 6" COMPACTED GRANULAR	
(F3)		NEW CONCRETE FLOOR: - FINISH 4" (100mm) CONCRETE SLAB - 1 1/2" (38MM) METAL DECK ON STEEL BEAM (REFER TO STRUCTURAL) - PAINT U/S OF STEEL DECK AND BEAM WHEN EXPOSED TO VIEW	FRR NOT REQUIRED FOR NON-COMBUSTIBLE CONSTRUCTION. FIRE STOP REQUIRED (FRR 45 MIN.) FOR ALL PENETRATIONS THROUGH FLOOR.

ROOF & CEILING ASSEMBLIES

TYPE	DETAILS	DESCRIPTION		REQ. F.R.R./REFERENCE/NOTES INSULATION UPGRADES NOT REQ.	
€RI>		EX. WOOD FRAME ROOF AND CEILING ASSEMBLY:	- CUT JOISTS TO SUIT NEW BEAMS		
		- EX. CEDAR SHINGLES - EX. WATER PROOFING MEMBRANE EX. DECK BOARD EX. ROOF RAFTER EX. ATTIC SPACE. - EX. CEILING JOISTS (ASSUME 2X10 @ 16" O.C.) - EX. LOOSE CELLULOSE FIBRE INSULATION - EX. METAL LATH AND PLASTER	(REFER TO STRUCTURAL) - REMOVE EXISTING LOOSE CELLULOSE FIBRE INSULATION - NEW 9.5" THK. BATT INSULATION (ROCKWOOL COMFORTBATT) (R = 35) - ENSURE ATTIC VENTILATION IS MAINTAINED. - REMOVE EX. METAL LATH AND PLASTER. - NEW AIR VAPOUR BARRIER - NEW 5/8" TYPE X. GWB - NEW FINISH	FRR. NOT REQUIRED.	
RI)	1 1	NEW STANDING SEAM METAL ROOF: - RHEINZINK SINGLE LOCK WITH 1.5" STANDING SEAM DRAWING TO INCLUDE ROOF SHEET METAL, GAUGI - 3/8" RHEINZINK AIR-Z - GRACE ULTRA MEMBRANE. DOUBLE UP AT EAVES, RI - 2" POLYISCOCYANURATE INSULATION (R=5.8 PER IN - 4" POLYISCOCYANURATE INSULATION (R=5.8 PER IN - SUB-GIRT SYSTEM, SIZE AND SPACING TO SUIT. (GA CLIPS AND THERMAL ISOLATOR) - INSULATION LAYERS ADHERED IN TYPE 2 ASPHALT, ST JOINTS HENRY BLUESKIN SA SELF ADHERED AIR-VAPOR BARR - 5/8" (16mm) DENSDECK ROOF BOARD - 1 1/2" METAL DECK - STRUCTURAL STEEL ROOF RAFTER (REFER TO STRUCT	E AND SUB-GRIT SYSTEM) DGE AND GABLE SIDES. CH = R11.6 CI) CH = R23.2 CI) LVANIZED "Z" ANGLES ON ISO AGGER INSULATION PANEL IER	R-35 ci REQUIRED. R-35 ci PROVIDED. FRR NOT REQUIRED FOR NON-COMBUSTIBLE CONSTRUCTION.	
R2		NEW OVERHEAD ALUMINUM CURTAIN WALL SYSTEM: - OVERHEAD GLAZING SYSTEM (7" DEPTH) - 1" INSULATED GLAZING UNIT. - SPRAY FOAM INSULATION TO FILL FRAME CAVITY - SUPPORTING STEEL REINFORCEMENT TO SUIT (PROV CURTAIN WALL SYSTEM SUPPLIER)	- Overhead Glazing System (7" depth) - 1" insulated glazing unit Spray foam insulation to fill frame cavity - Supporting steel reinforcement to suit (provided by overhead alum.		
R3>	7	NEW HORIZONTAL SHAFT ABOVE ELEVATOR SHAFT - USG STEEL J-RUNNER - 1" SHEETROCK GWB LINER PANEL - 2 1/2" USG STEEL C-H STUDS (25 GAGE) @ 24" O.C. - 5/8" SHEETROCK FIRECORE GWB PANEL. JOINTS FIN	- USG STEEL J-RUNNER - 1" SHEETROCK GWB LINER PANEL		
R4>		NEW SUSPENDED GWB. CEILING - 2X 3" METAL CHANNEL - 7/8" FURRING CHANNEL - 5/8" SHEETROCK FIRECORE GWB PANEL. JOINTS FIN - FINISH	IISHED.		
₹ 7		NEW GWB. CEILING - 1 5/8" STEEL FRAME - 7/8" FURRING CHANNEL - 5/8" SHEETROCK FIRECORE GWB PANEL. JOINTS FIN - FINISH	IISHED.		
R7>+		NEW GWB. CEILING AT ELEVATOR MACHINE ROOM - 1 5/8" STEEL FRAME - 7/8" FURRING CHANNEL - (2) 5/8" SHEETROCK FIRECORE GWB PANEL. JOINTS - FINISH	FRR 60 MIN. REQUIRED. FRR 60MIN. PROVIDED (OBC. SB2, TABLE 2.3.12)		

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Stevens Burgess Architects Ltd.

NO. DATE DESCRIPTION

5 12 JUL. 2023 95% REVIEW

NO. DATE DESCRIPTION

1 Mar. 30, 2023 TO STRUCTURAL
2 APRIL 3, 2023 TO COSTING CONSULTANT

3 26 APRIL 2023 100% DESIGN DEVELOPMENT
4 JUN.19,2023 50% CONTRACT DOCUMENTS

REVISIONS

ISSUE

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CITY OF TORONTO

ECONOMIC DEVELOPMENT AND CULTURE MUSEUM AND HERITAGE SERVICES METRO HALL, 8TH FLOOR, TORONTO, ON M5V 3C6 PROJECT:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY

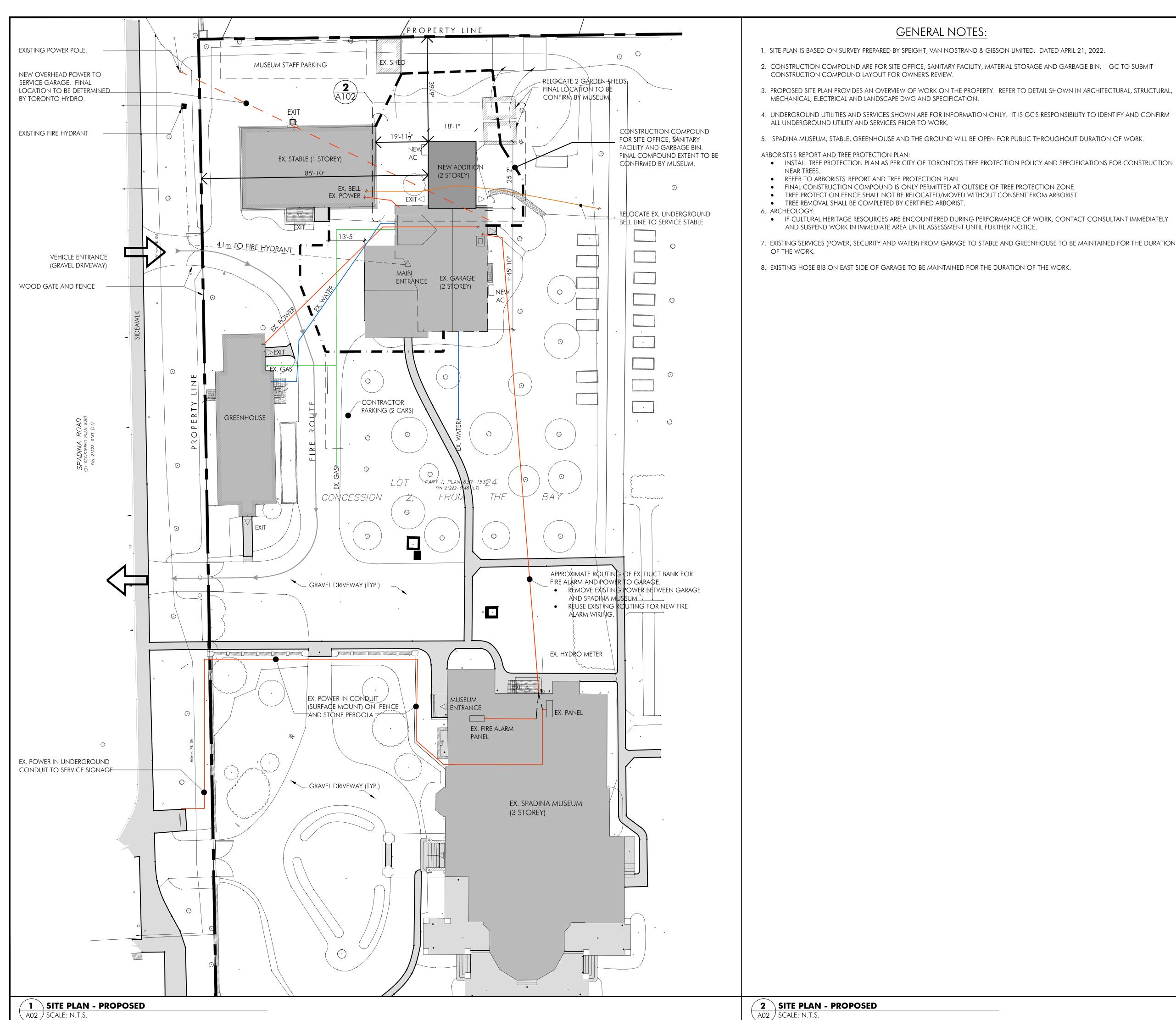
285 SPADINA RD, TORONTO, ON M5R2V5 PROJECT NO.:

22048

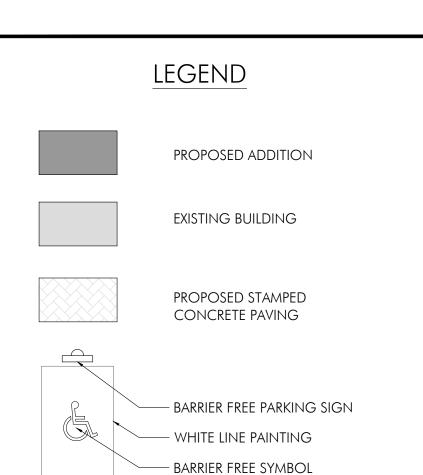
CONSTRUCTION ASSEMBLIES

AS SHOWN JAN 2023 **A05** FILE NO: A22048 APPROVED BY: DRAWN BY:

1 CONSTRUCTION ASSEMBLIES



- 4. UNDERGROUND UTILITIES AND SERVICES SHOWN ARE FOR INFORMATION ONLY. IT IS GC'S RESPONSIBILITY TO IDENTIFY AND CONFIRM
- IF CULTURAL HERITAGE RESOURCES ARE ENCOUNTERED DURING PERFORMANCE OF WORK, CONTACT CONSULTANT IMMEDIATELY
- 7. EXISTING SERVICES (POWER, SECURITY AND WATER) FROM GARAGE TO STABLE AND GREENHOUSE TO BE MAINTAINED FOR THE DURATION



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REV	ISIONS		

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NO.	DATE	DESCRIPTION	
6	JUN.19, 2023	50% CONTRACT DOCUMENTS	
7	12 JUL. 2023	95% REVIEW	

ORIENTATION





Stevens Burgess Architects Ltd.

204 - 120 Carlton St., Toronto, ON. M5A 2K2 T: 416-961-5690 F: 416-972-6417



CITY OF TORONTO ECONOMIC DEVELOPMENT AND CULTURE MUSEUM AND HERITAGE SERVICES METRO HALL, 8TH FLOOR, TORONTO, ON M5V 3C6

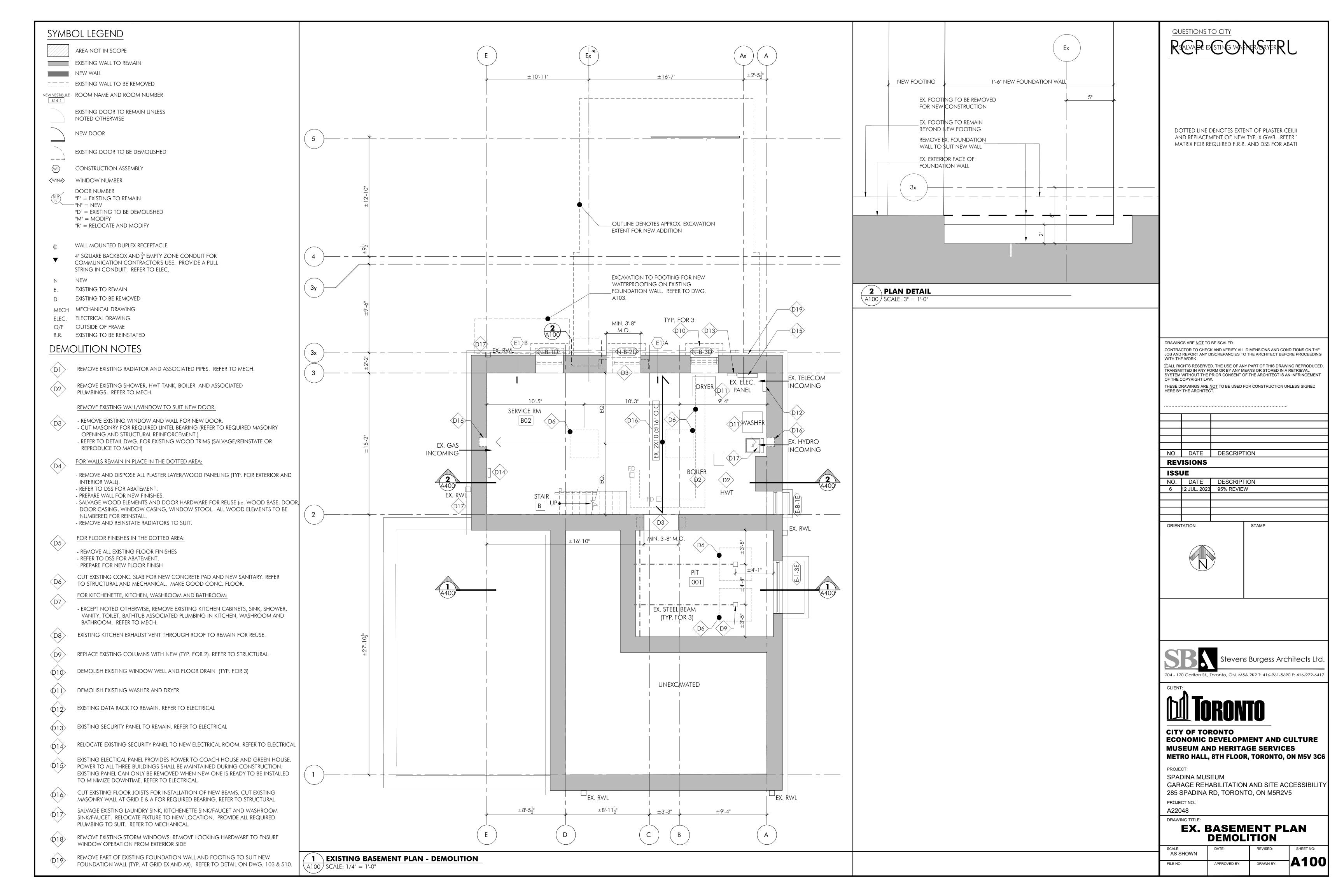
SPADINA MUSEUM

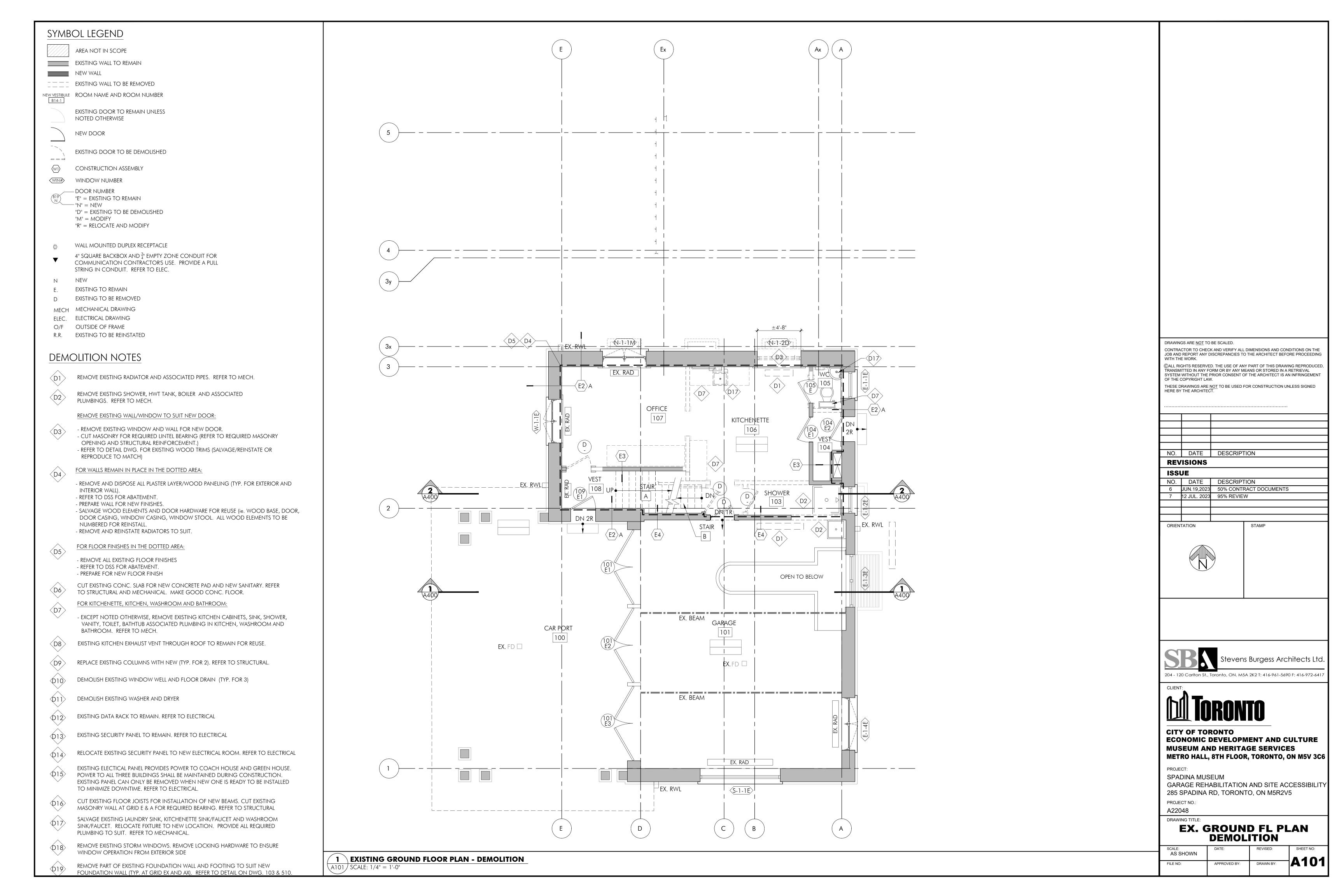
GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

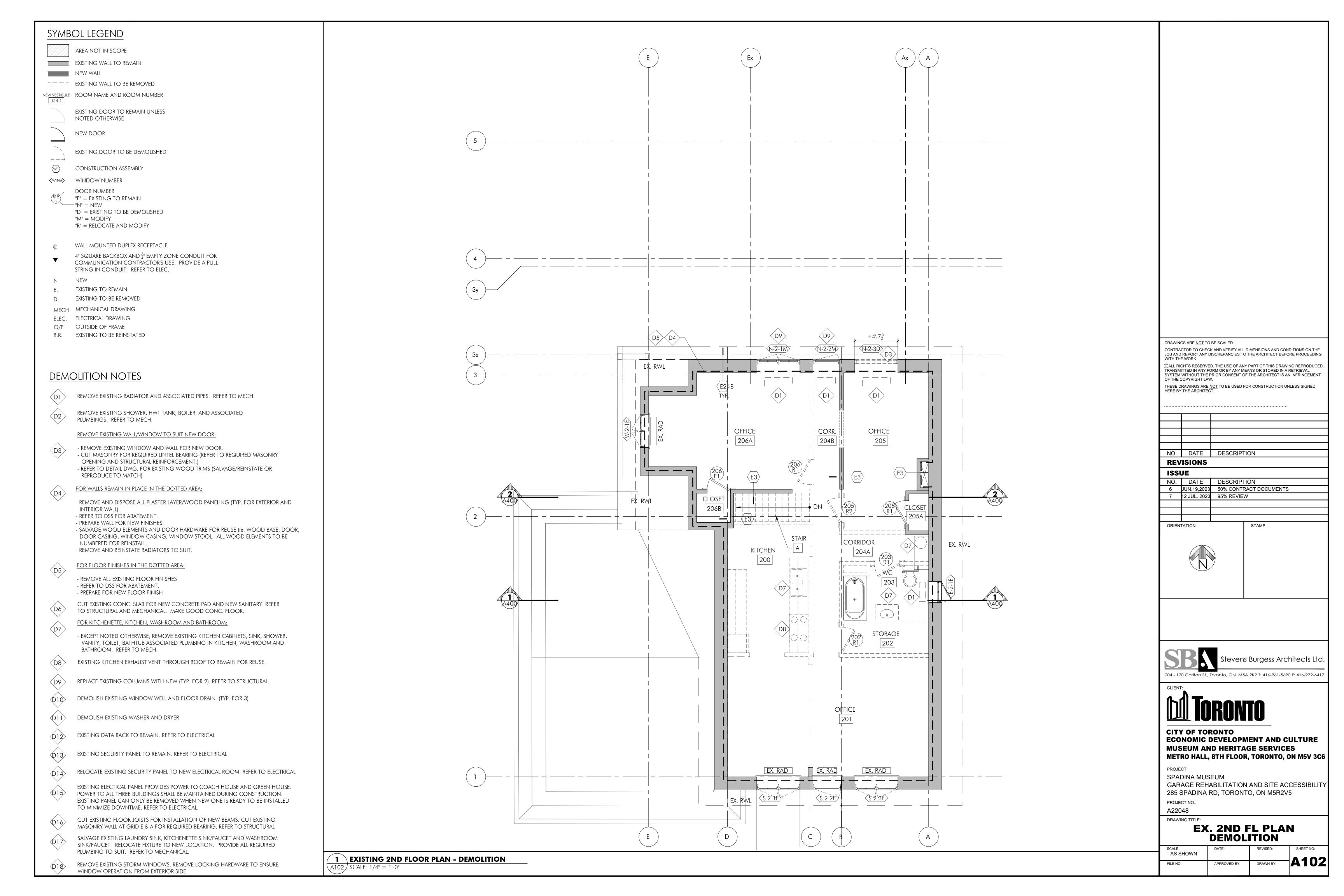
PROJECT NO.: A22048

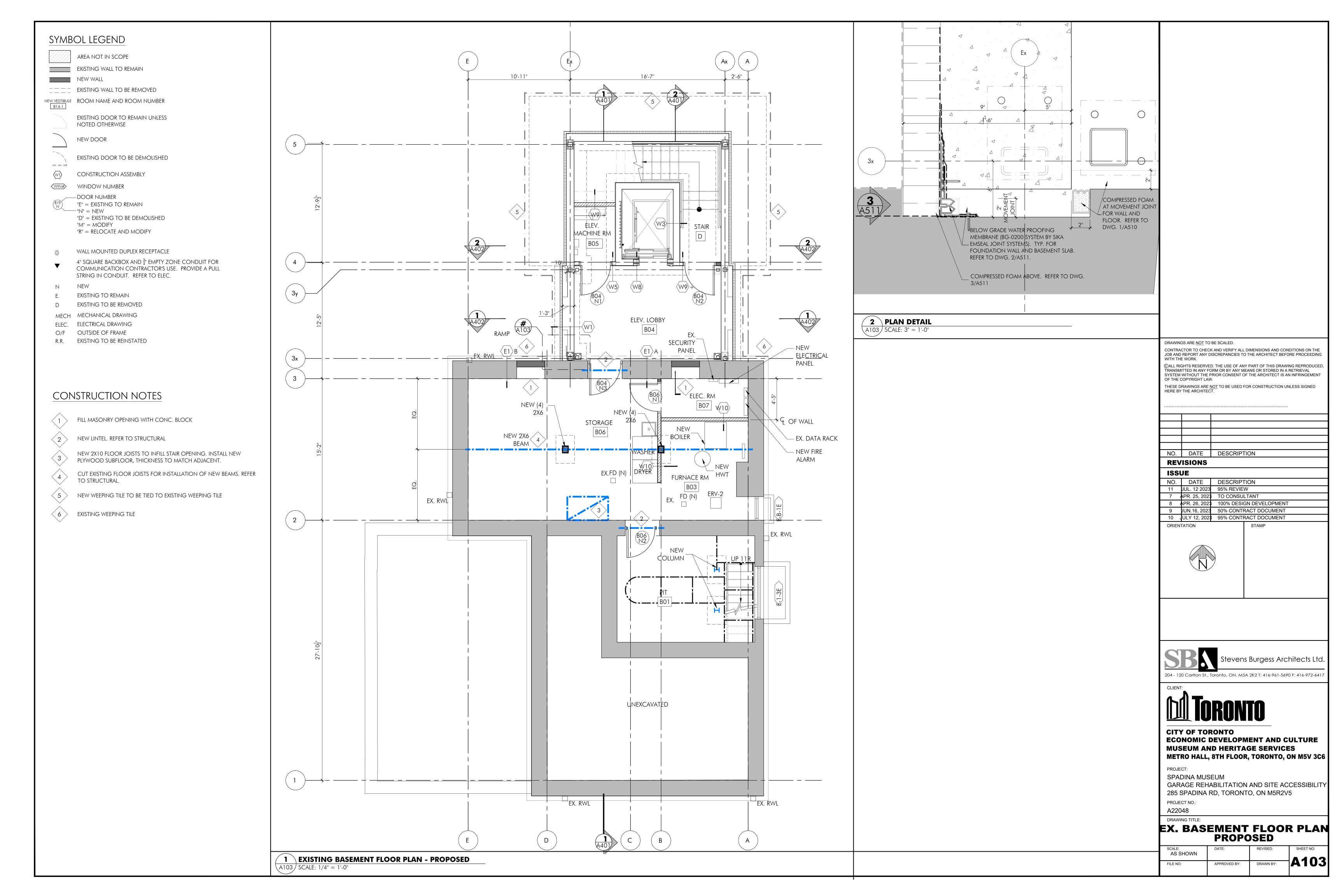
DRAWING TITLE: PROPOSED SITE PLAN

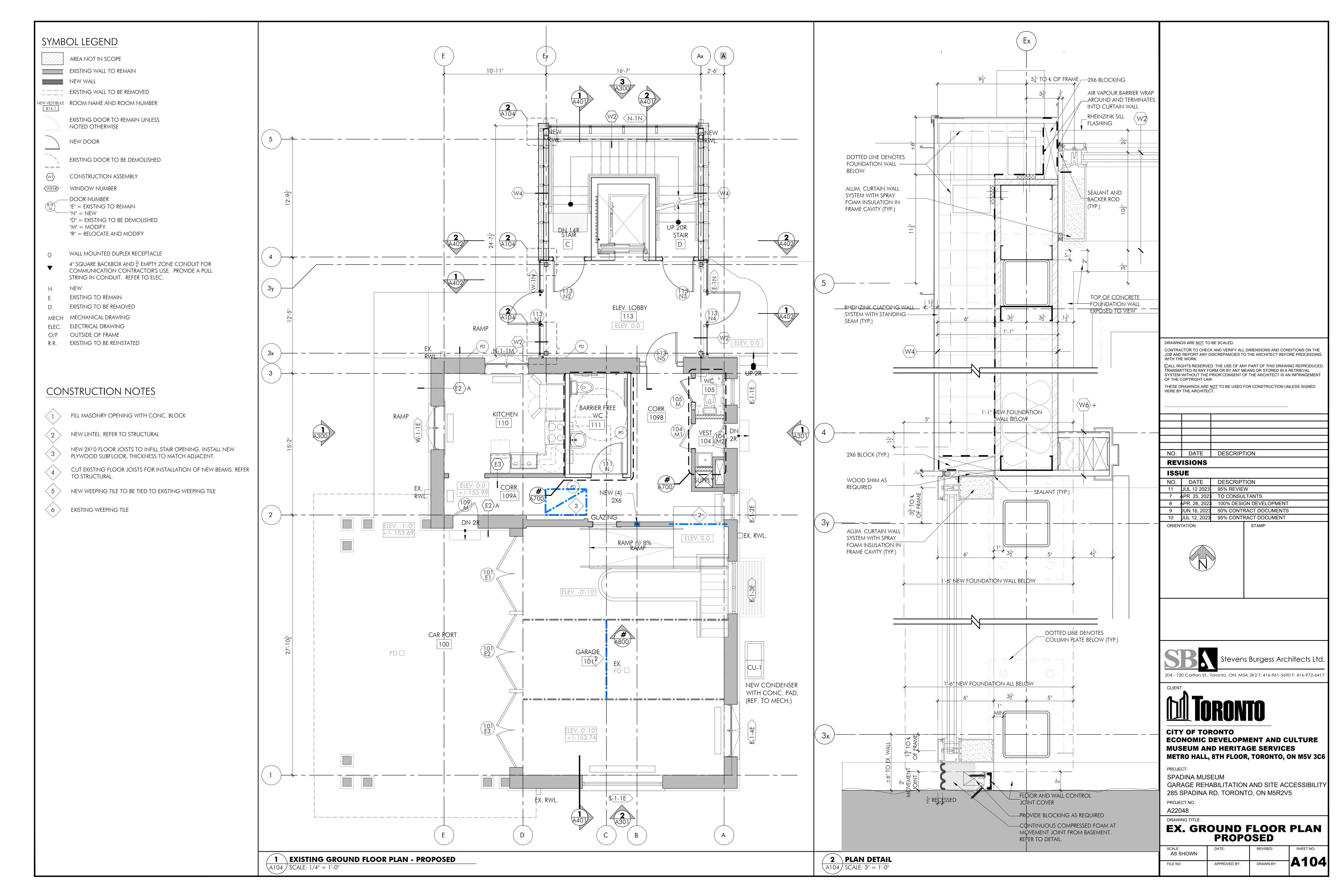
A02

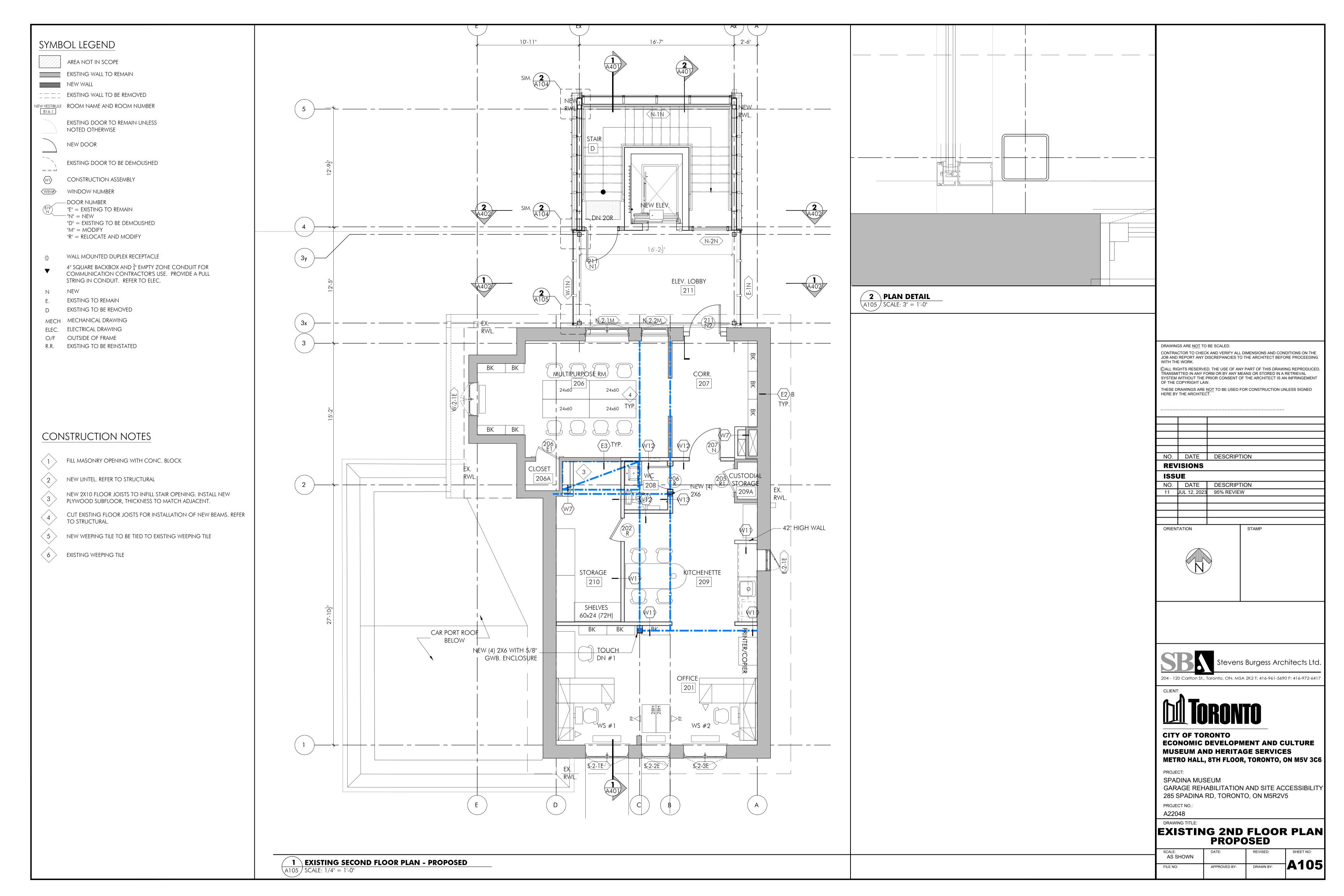


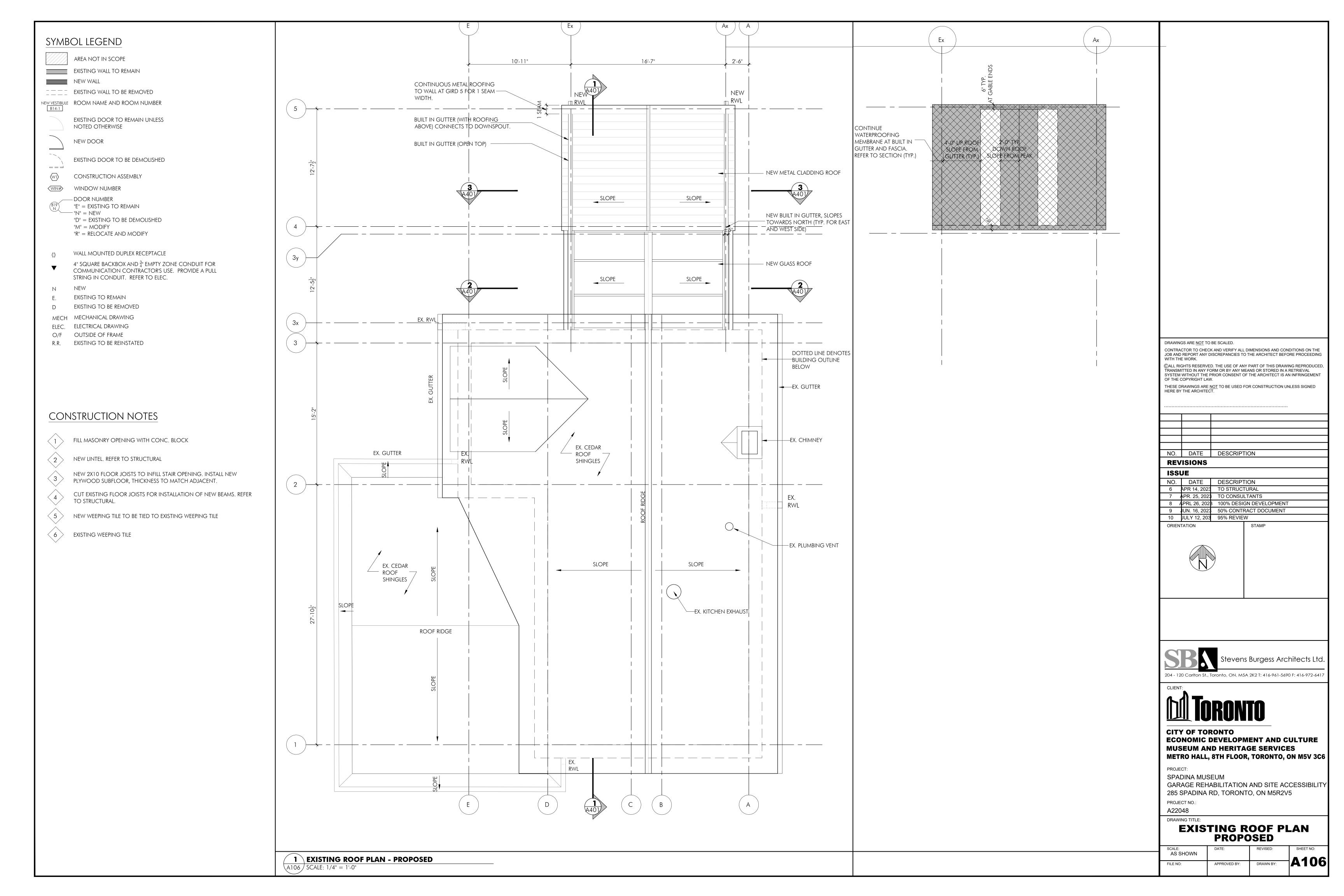


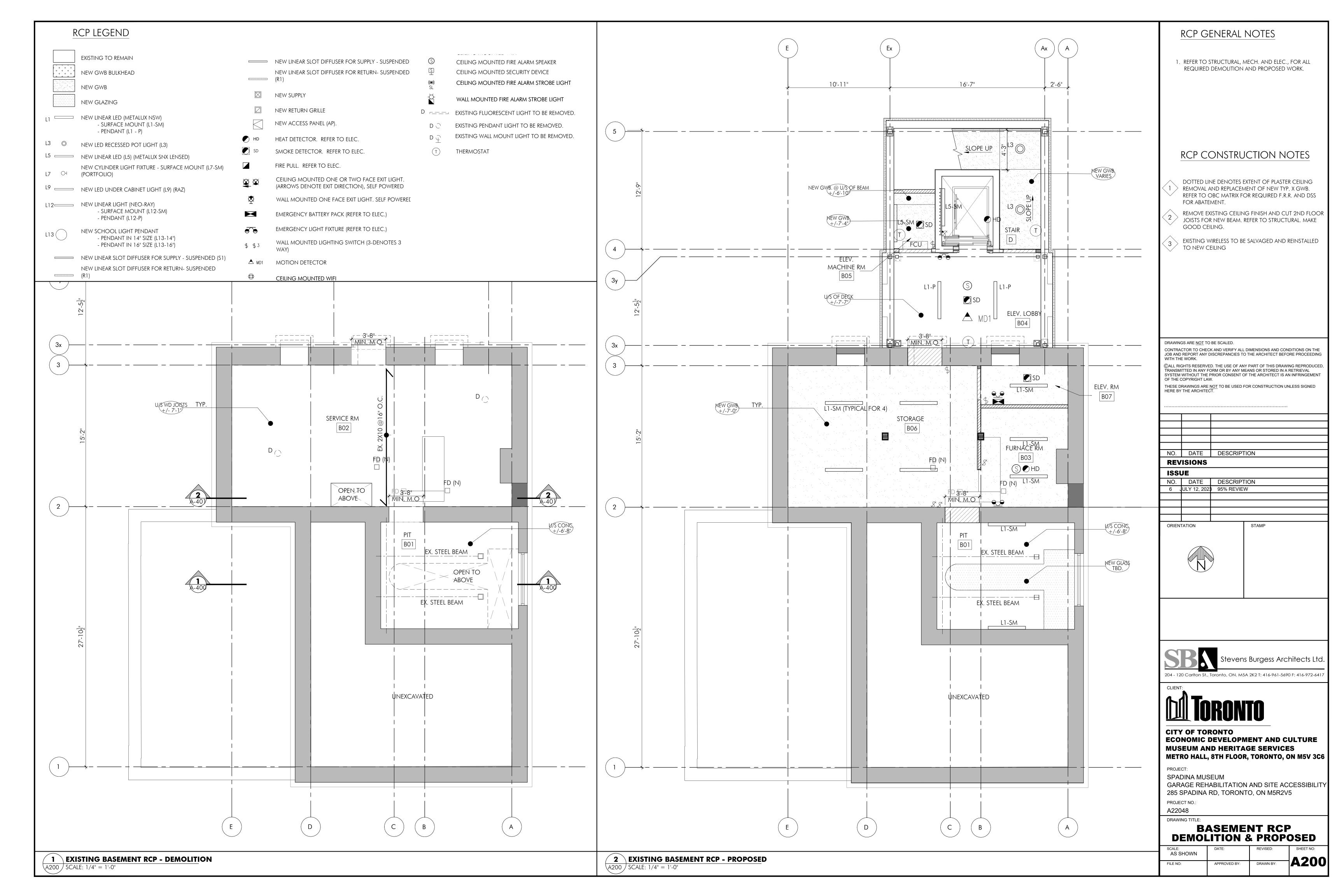


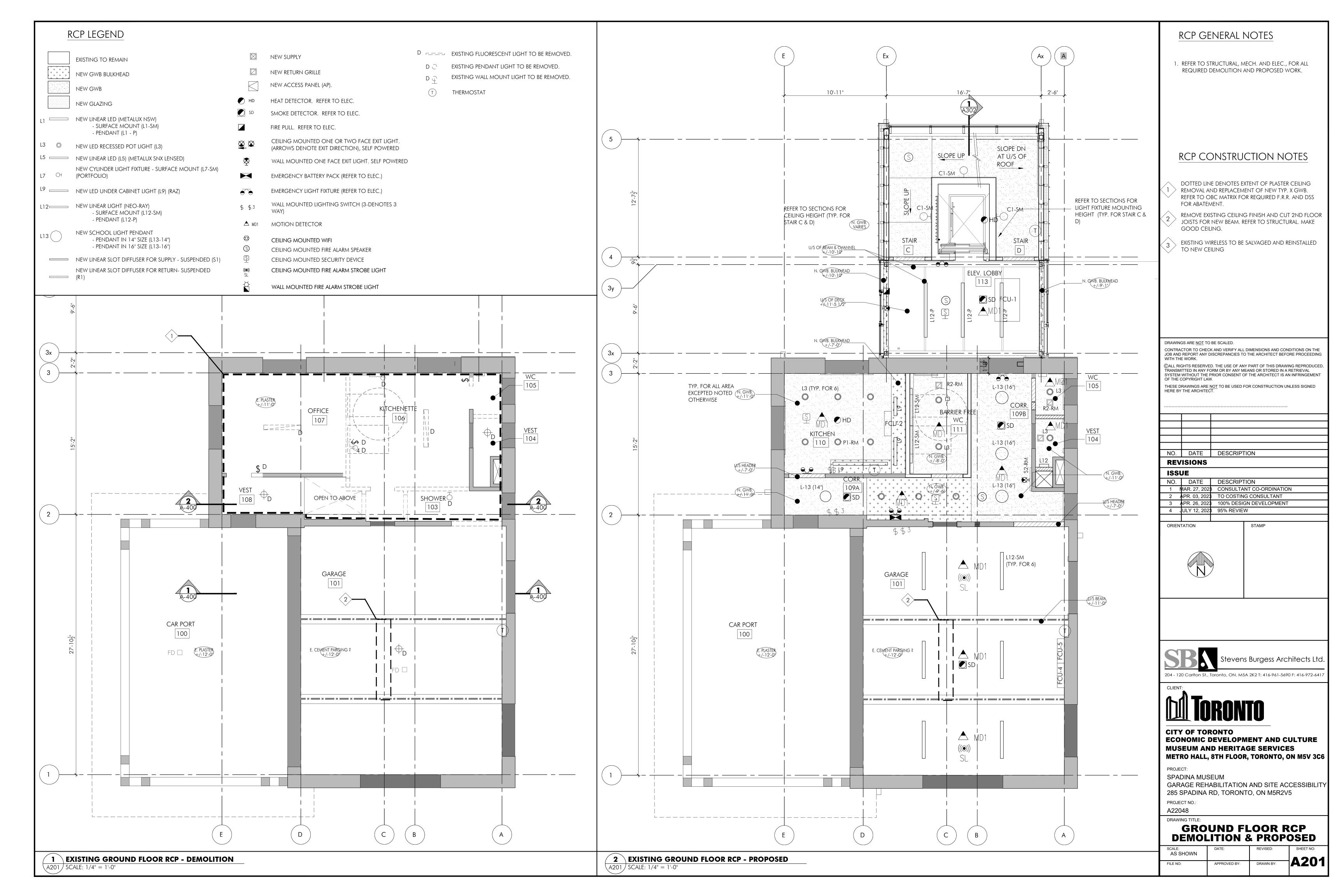


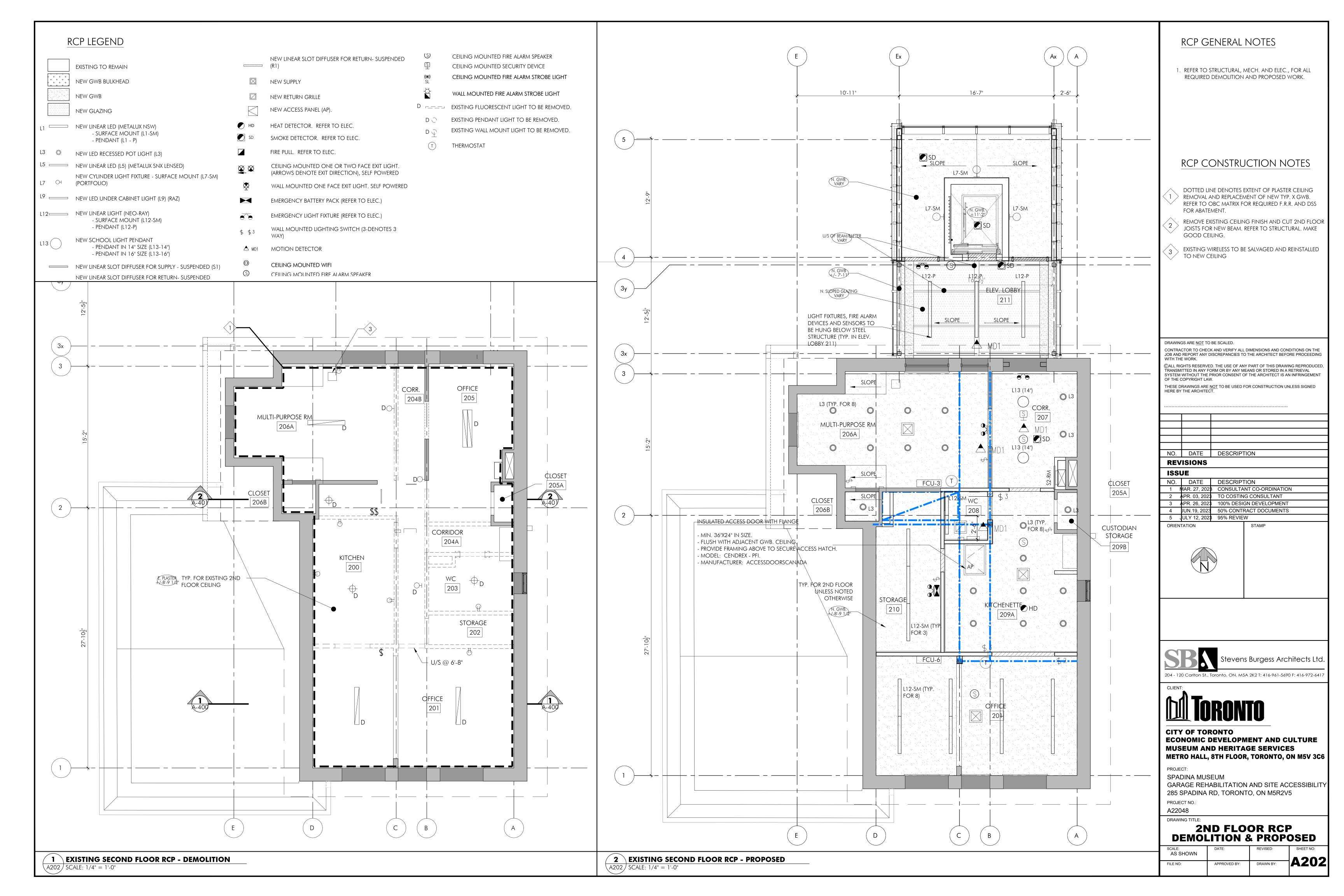


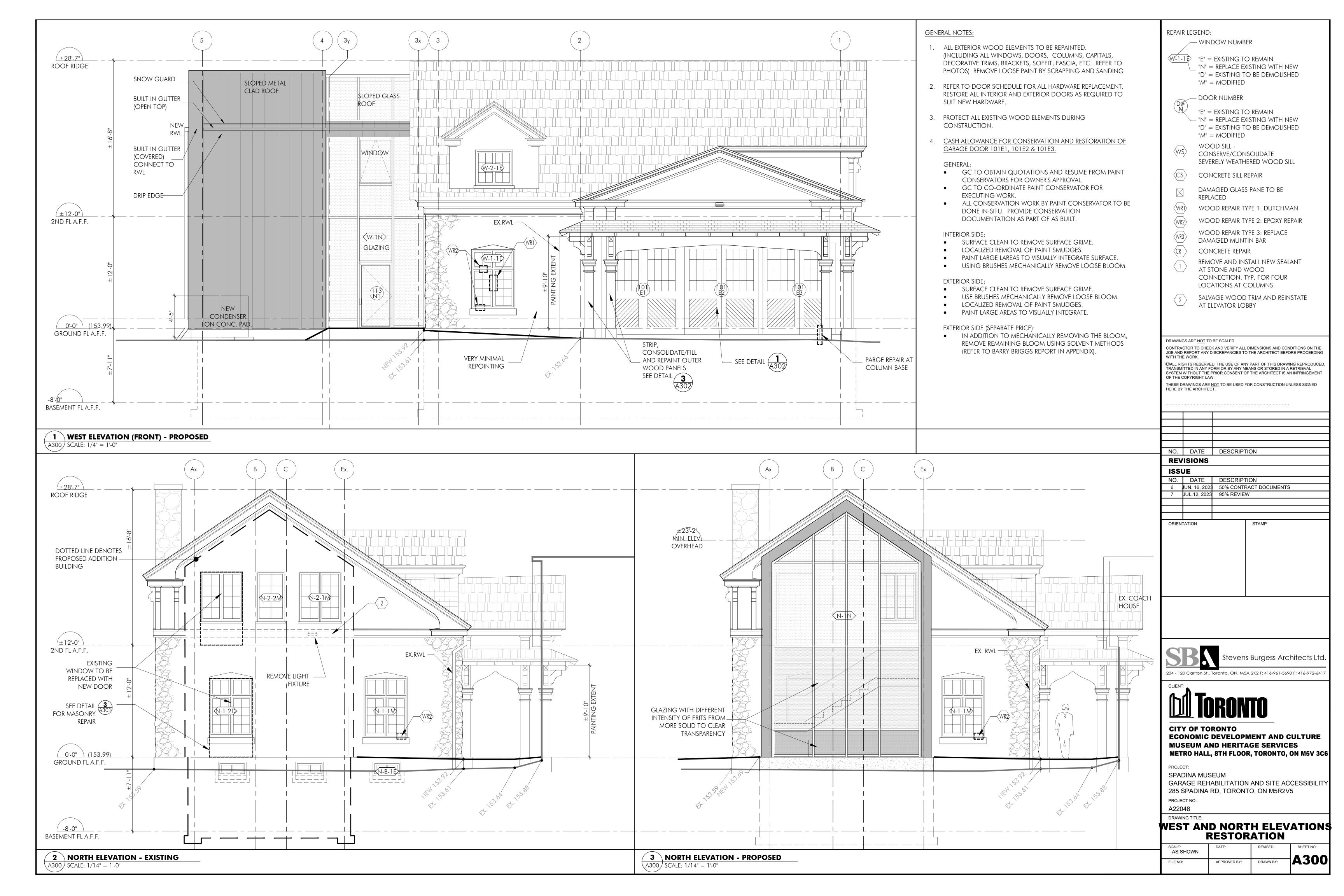








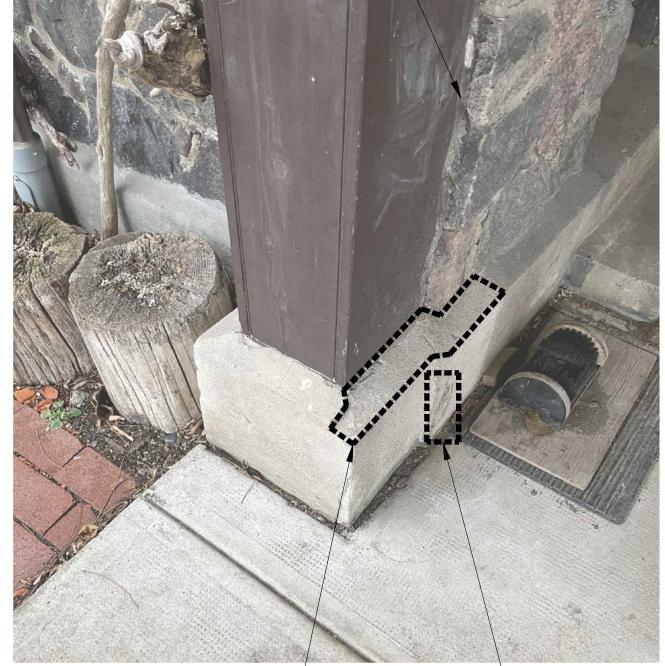








remove and install new SEALANT CONNECTION AT STONE JOINT . TYP FOR 2 COLUMNS (4 LOCATIONS)



GENERAL NOTES:

- 1. ALL EXTERIOR WOOD ELEMENTS TO BE REPAINTED. (INCLUDING ALL WINDOWS, DOORS, COLUMNS, CAPITALS, DECORATIVE TRIMS, BRACKETS, SOFFIT, FASCIA, ETC. REFER TO PHOTOS) REMOVE LOOSE PAINT BY SCRAPPING AND SANDING
- 2. REFER TO DOOR SCHEDULE FOR ALL HARDWARE REPLACEMENT. RESTORE ALL INTERIOR AND EXTERIOR DOORS AS REQUIRED TO SUIT NEW HARDWARE.
- 3. PROTECT ALL EXISTING WOOD ELEMENTS DURING CONSTRUCTION.
- 4. CASH ALLOWANCE FOR CONSERVATION AND RESTORATION OF GARAGE DOOR 101E1, 101E2 & 101E3.

GENERAL:

- GC TO OBTAIN QUOTATIONS AND RESUME FROM PAINT CONSERVATORS FOR OWNER'S APPROVAL.
- GC TO CO-ORDINATE PAINT CONSERVATOR FOR EXECUTING WORK.
- ALL CONSERVATION WORK BY PAINT CONSERVATOR TO BE DONE IN-SITU. PROVIDE CONSERVATION DOCUMENTATION AS PART OF AS BUILT.

INTERIOR SIDE:

- SURFACE CLEAN TO REMOVE SURFACE GRIME.
- LOCALIZED REMOVAL OF PAINT SMUDGES.
- PAINT LARGE LAREAS TO VISUALLY INTEGRATE SURFACE. USING BRUSHES MECHANICALLY REMOVE LOOSE BLOOM.

EXTERIOR SIDE:

- SURFACE CLEAN TO REMOVE SURFACE GRIME.
- USE BRUSHES MECHANICALLY REMOVE LOOSE BLOOM.
- LOCALIZED REMOVAL OF PAINT SMUDGES.
- PAINT LARGE AREAS TO VISUALLY INTEGRATE.

EXTERIOR SIDE (SEPARATE PRICE):

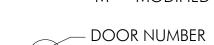
IN ADDITION TO MECHANICALLY REMOVING THE BLOOM, REMOVE REMAINING BLOOM USING SOLVENT METHODS (REFER TO BARRY BRIGGS REPORT IN APPENDIX).

REPAIR LEGEND:

– WINDOW NUMBER



"E" = EXISTING TO REMAIN "N" = REPLACE EXISTING WITH NEW "D" = EXISTING TO BE DEMOLISHED "M" = MODIFIED



"E" = EXISTING TO REMAIN $_$ "N" = REPLACE EXISTING WITH NEW "D" = EXISTING TO BE DEMOLISHED "M" = MODIFIED

WOOD SILL -CONSERVE/CONSOLIDATE SEVERELY WEATHERED WOOD SILL

CONCRETE SILL REPAIR

DAMAGED GLASS PANE TO BE REPLACED

WOOD REPAIR TYPE 1: DUTCHMAN

WOOD REPAIR TYPE 2: EPOXY REPAIR

WOOD REPAIR TYPE 3: REPLACE DAMAGED MUNTIN BAR

CONCRETE REPAIR

REMOVE AND INSTALL NEW SEALANT at stone and wood CONNECTION. TYP. FOR FOUR

SALVAGE WOOD TRIM AND REINSTATE

LOCATIONS AT COLUMNS

AT ELEVATOR LOBBY

DRAWINGS ARE <u>NOT</u> TO BE SCALED.

CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING

©ALL RIGHTS RESERVED. THE USE OF ANY PART OF THIS DRAWING REPRODUCED, TRANSMITTED IN ANY FORM OR BY ANY MEANS OR STORED IN A RETRIEVAL SYSTEM WITHOUT THE PRIOR CONSENT OF THE ARCHITECT IS AN INFRINGEMENT

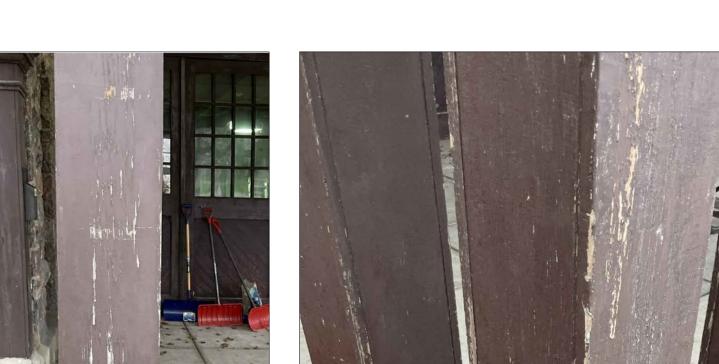
THESE DRAWINGS ARE $\underline{\mathsf{NOT}}$ TO BE USED FOR CONSTRUCTION UNLESS SIGNED HERE BY THE ARCHITECT.

1 EXISTING GARAGE FRONT DOOR A302 SCALE: NTS

2 FRONT PATIO NORTH ARCH A302 SCALE: NTS

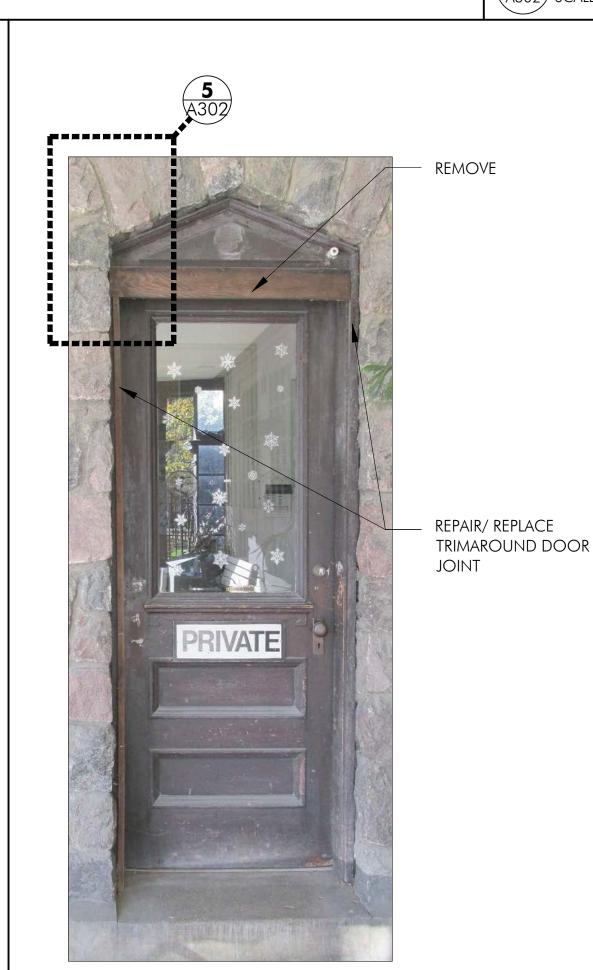
PARGE REPAIR AT

COLUMN BASE





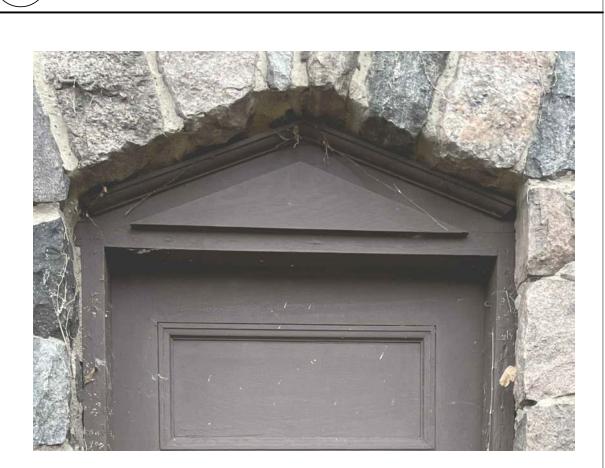
CONSOLIDATE/FILL AND REPAINT OUTER WOOD PANELS





(CR)

5 MAIN ENTRANCE DOOR JAMB A302 SCALE: NTS





	NO.	NO. DATE DESCRIPTION		ΓΙΟΝ
	REVISIONS			
	NO.	DATE	DESCRIP	ΓΙΟΝ
	1 /	APR. 26, 202 3	3 100% DESIGN DEVELOPMENT	
	2	JUN.16, 2023	50% CONTRACT DOCUMENT	
	3	JUL. 12,2023	3 95% REVIEW	
	ORIEN	TATION	STAMP	

Stevens Burgess Architects Ltd. 204 - 120 Carlton St., Toronto, ON. M5A 2K2 T: 416-961-5690 F: 416-972-6417

CITY OF TORONTO ECONOMIC DEVELOPMENT AND CULTURE MUSEUM AND HERITAGE SERVICES METRO HALL, 8TH FLOOR, TORONTO, ON M5V 3C6

PROJECT:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

PROJECT NO.: A22048

DRAWING TITLE:

PHOTOS

AS SHOWN A302

A302 SCALE: NTS

A302 SCALE: NTS

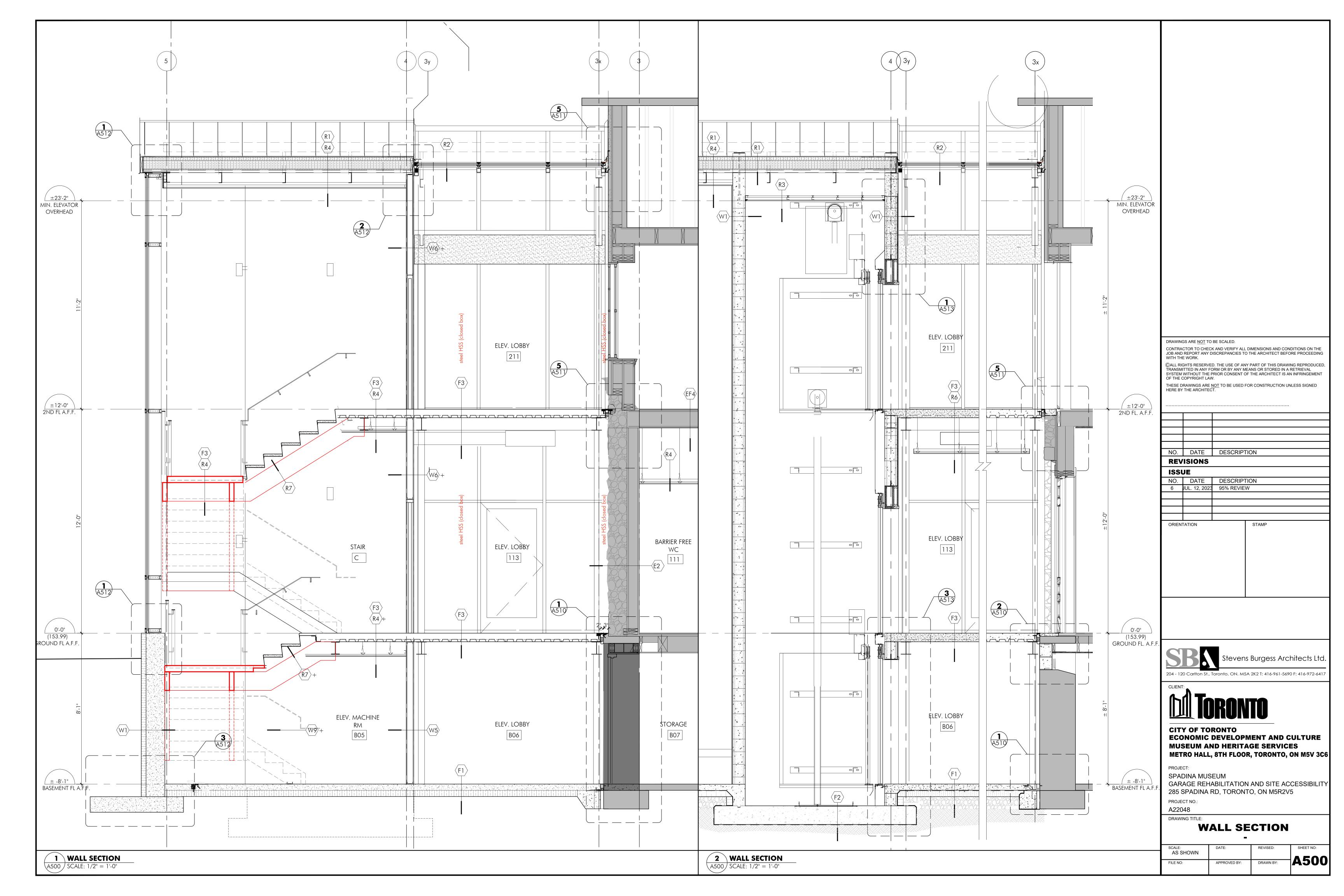
3 CARPORT COLUMN BASE A302 | SCALE: NTS

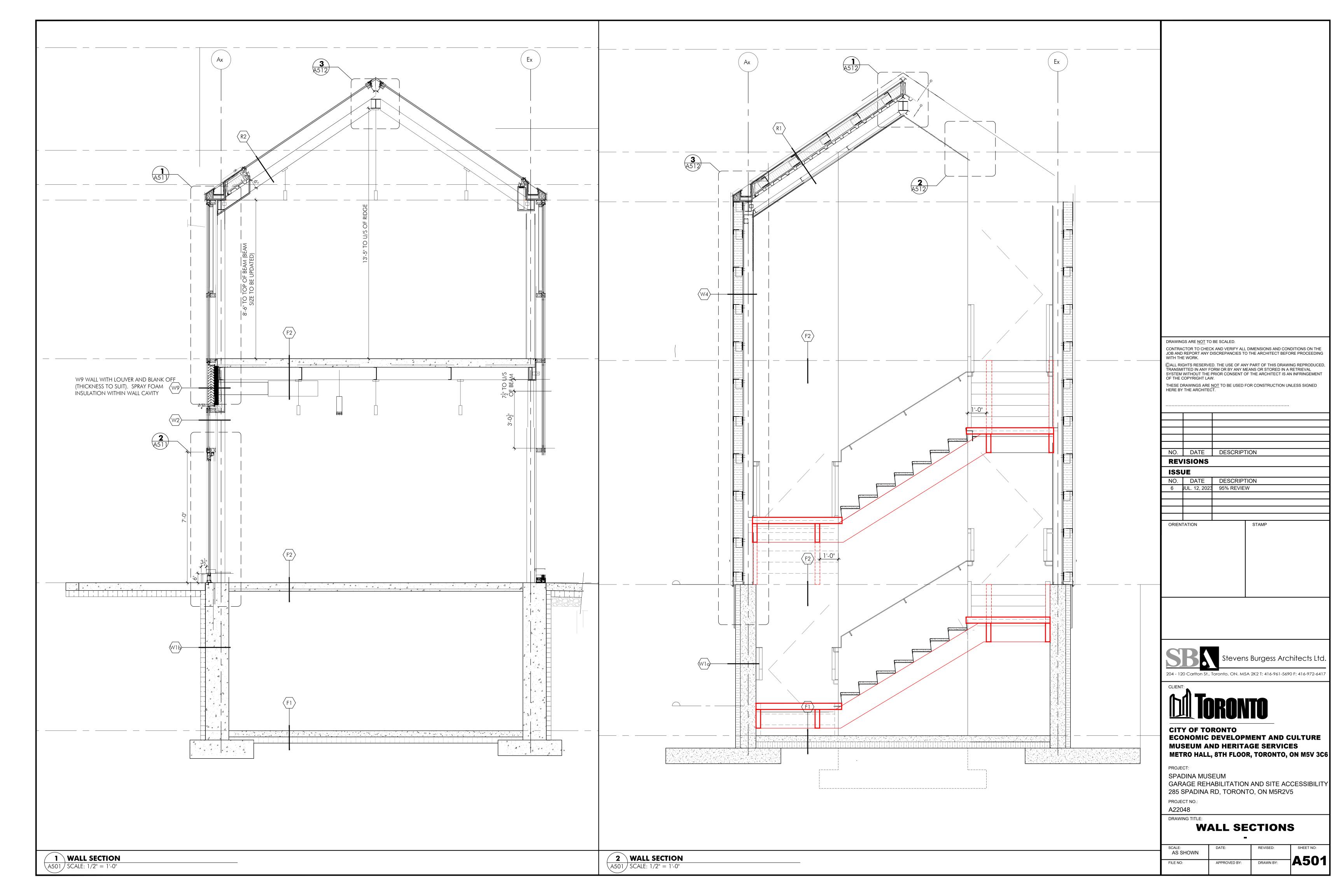
4 MAIN ENTRANCE A302 SCALE: NTS

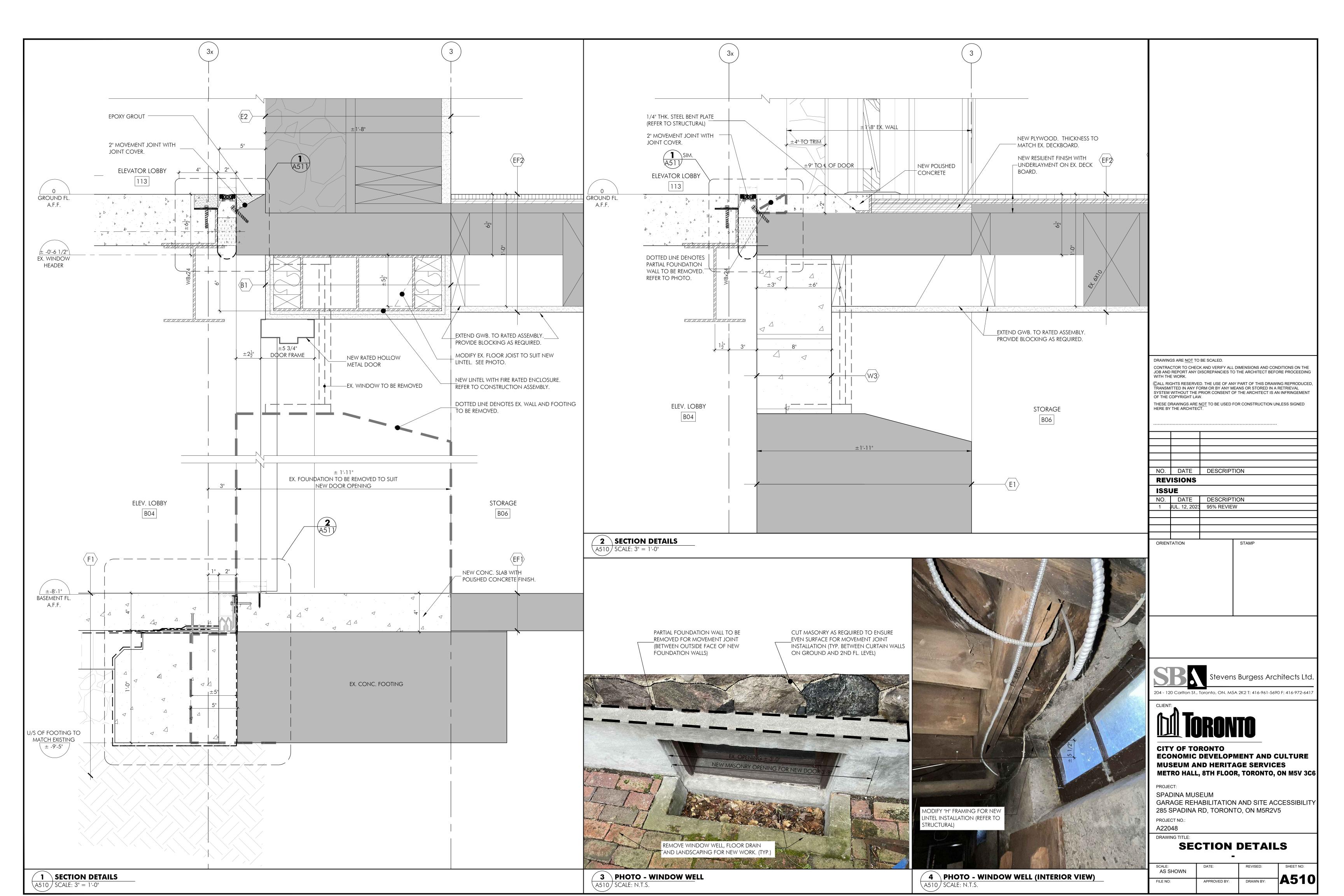


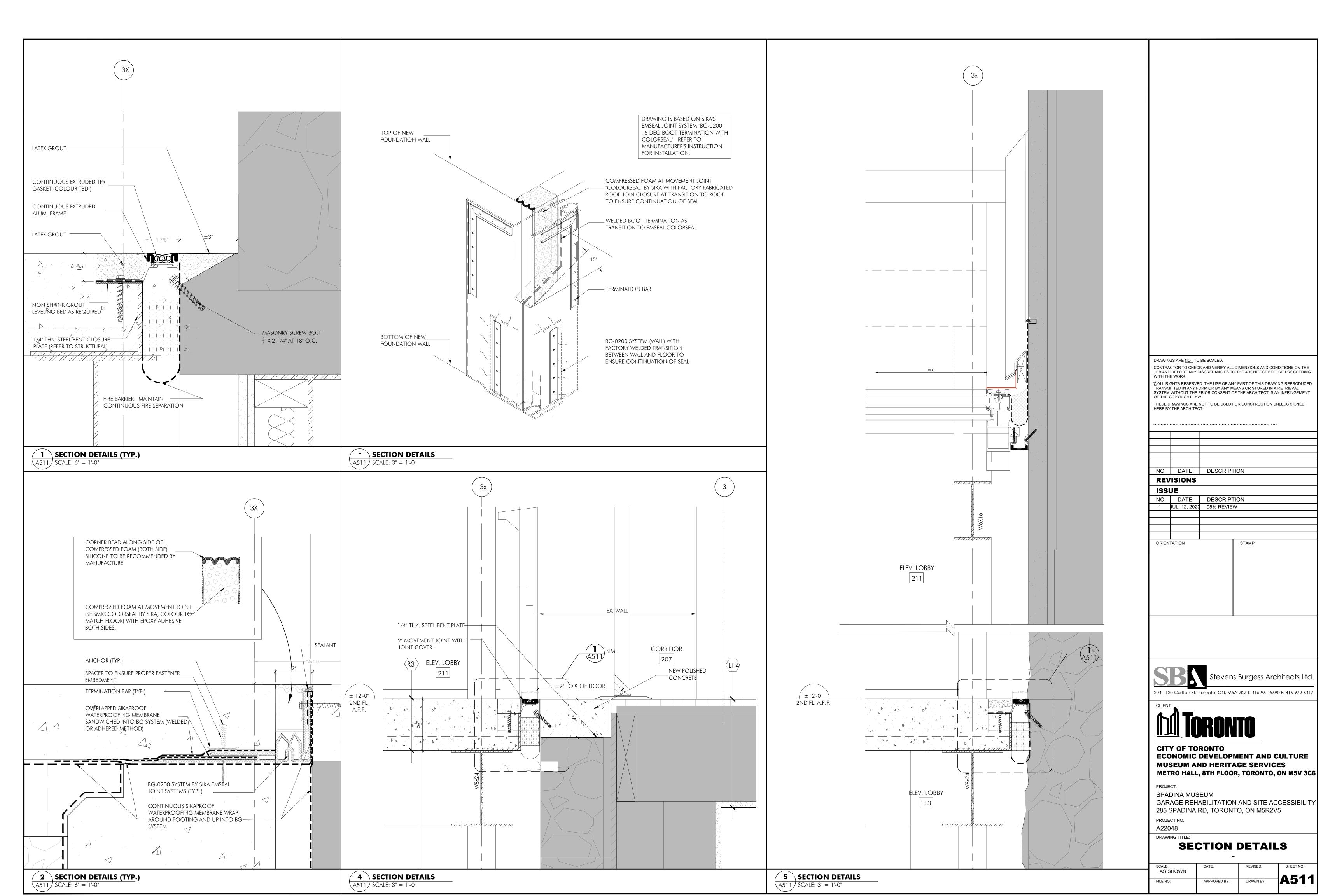


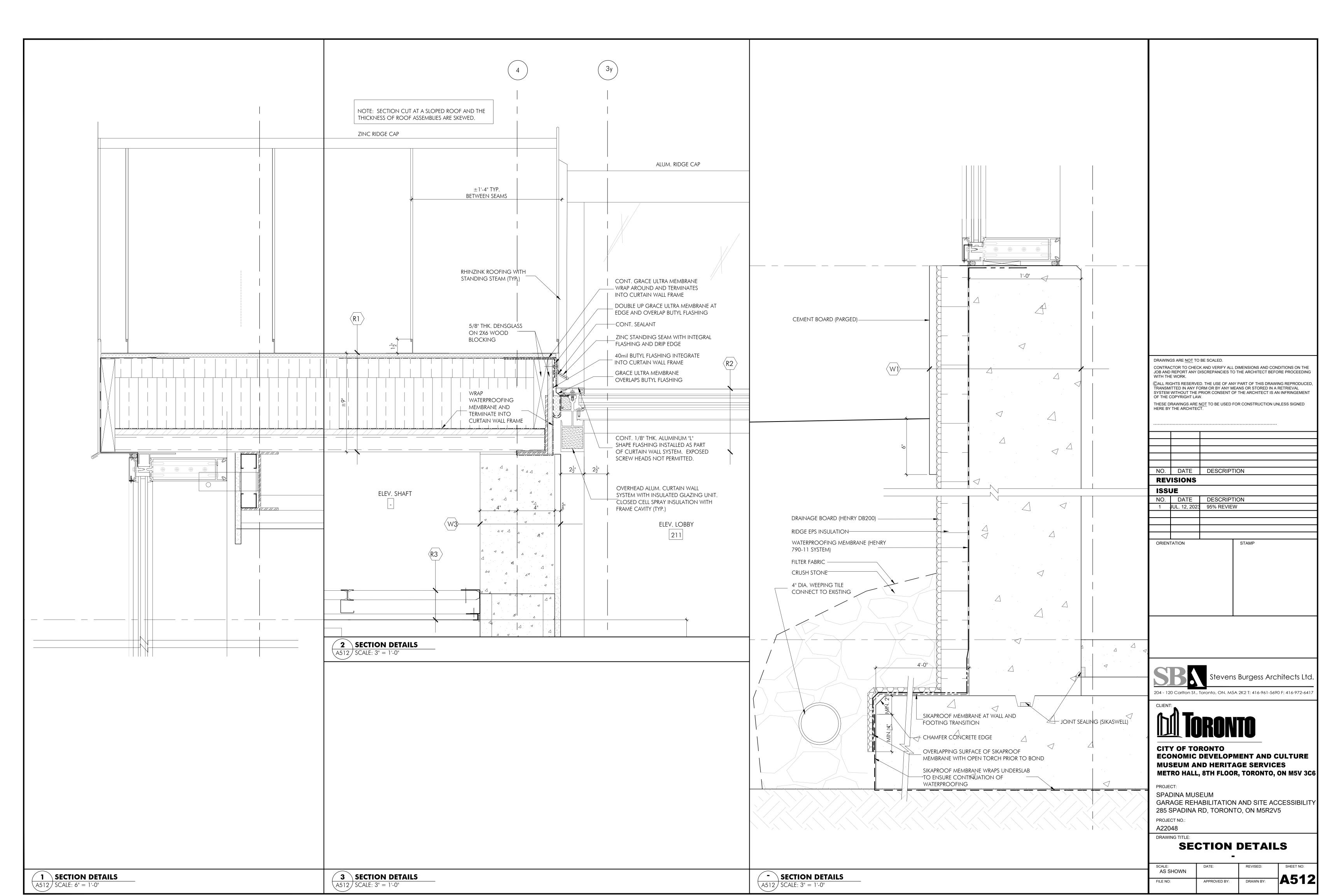


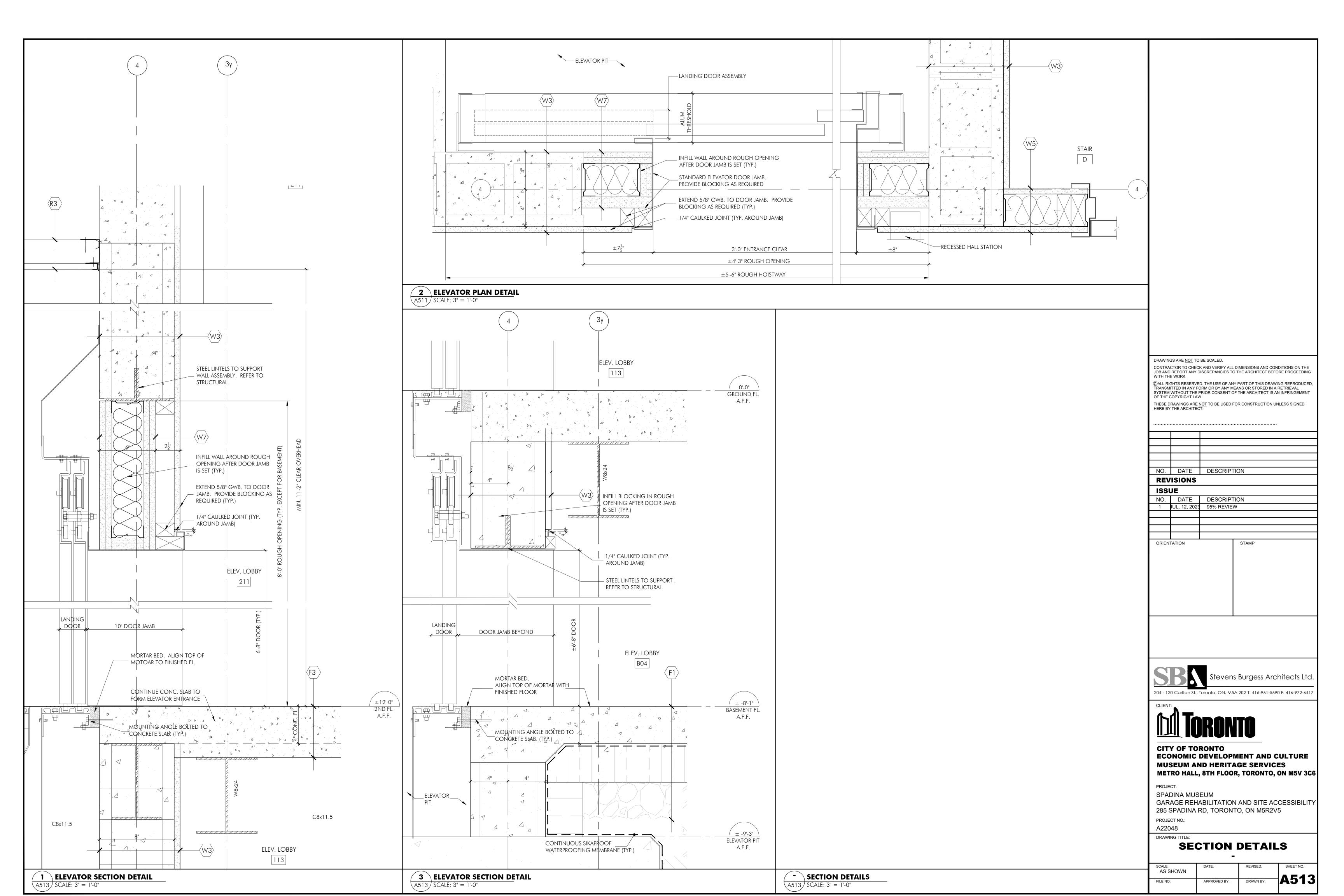


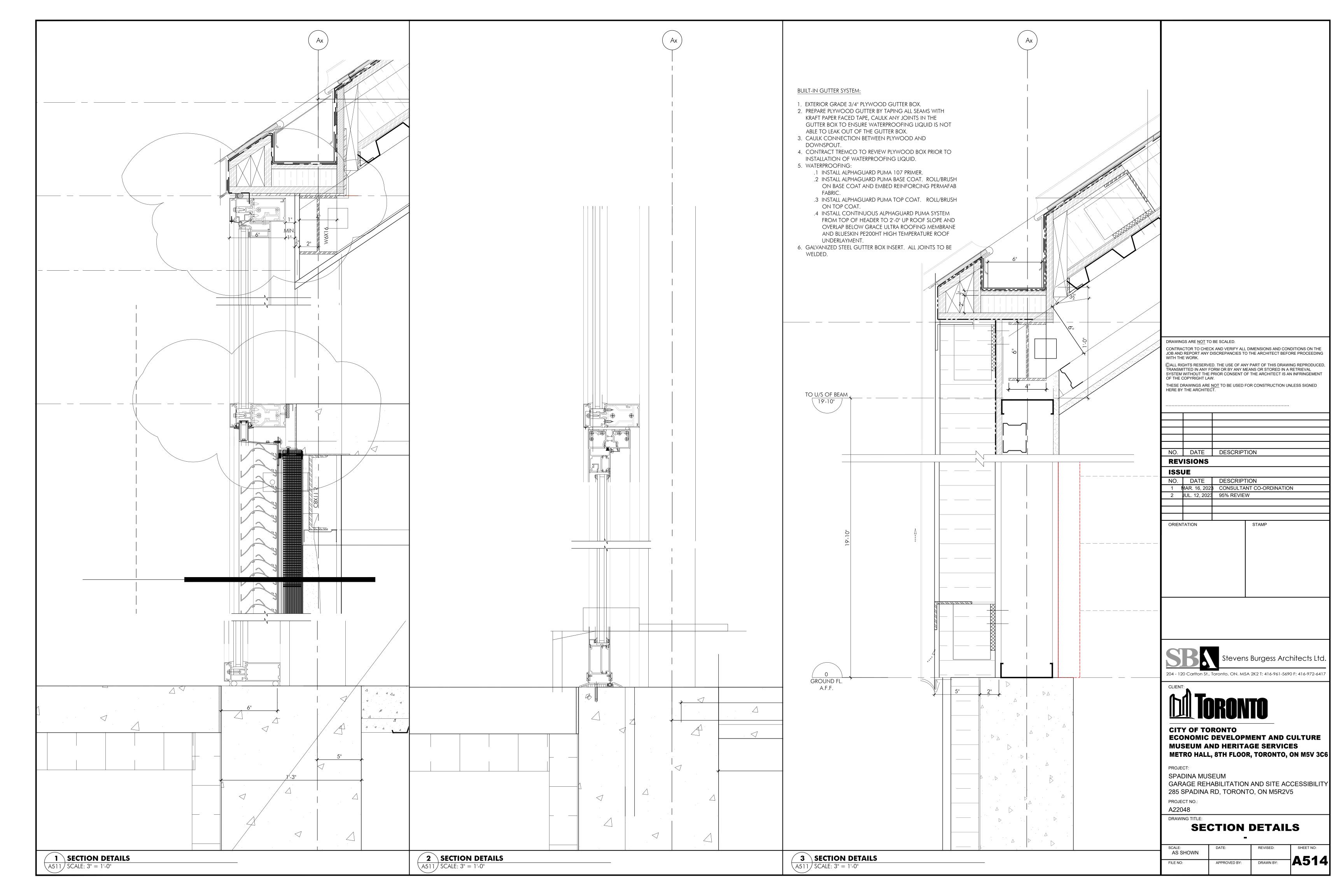


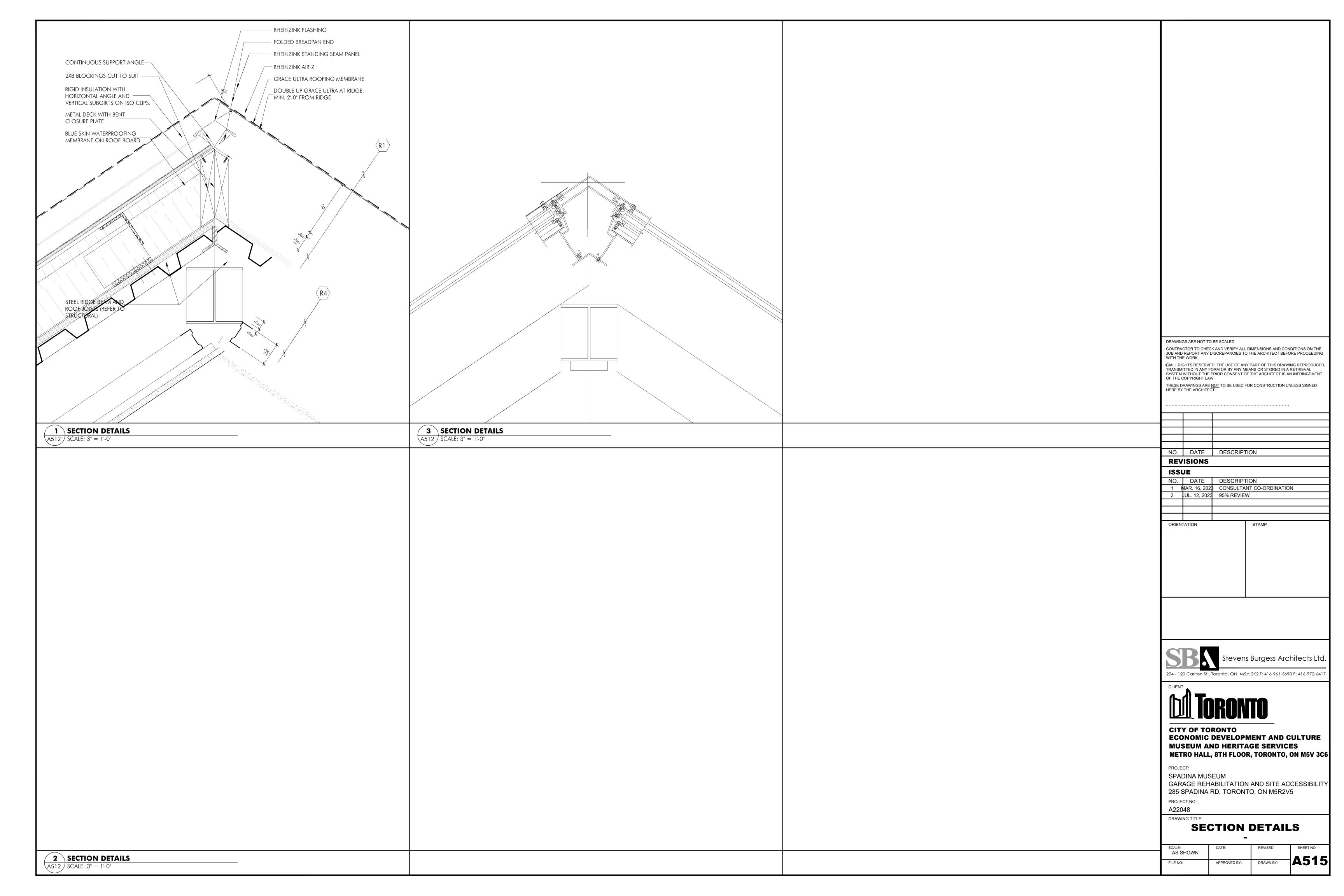


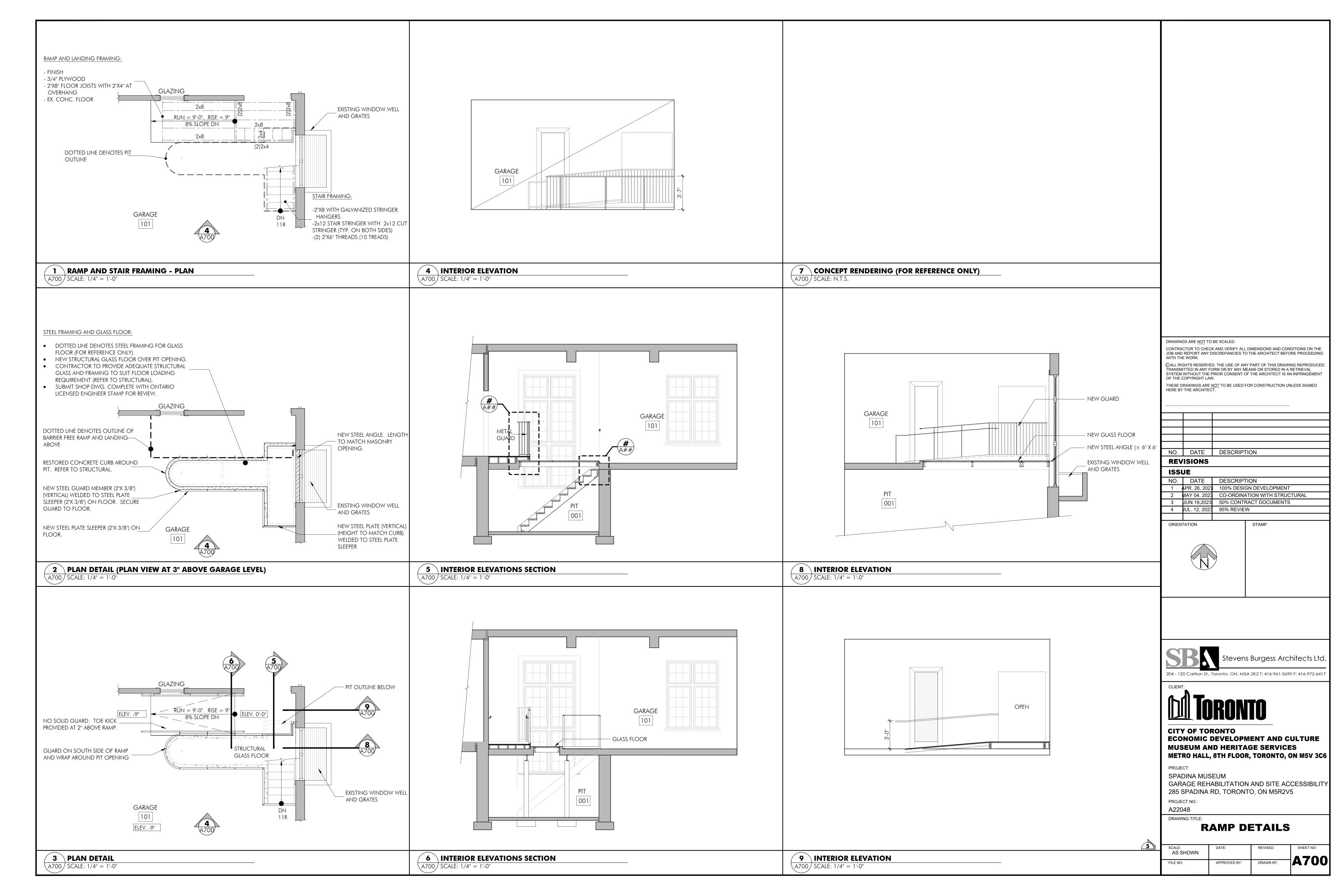


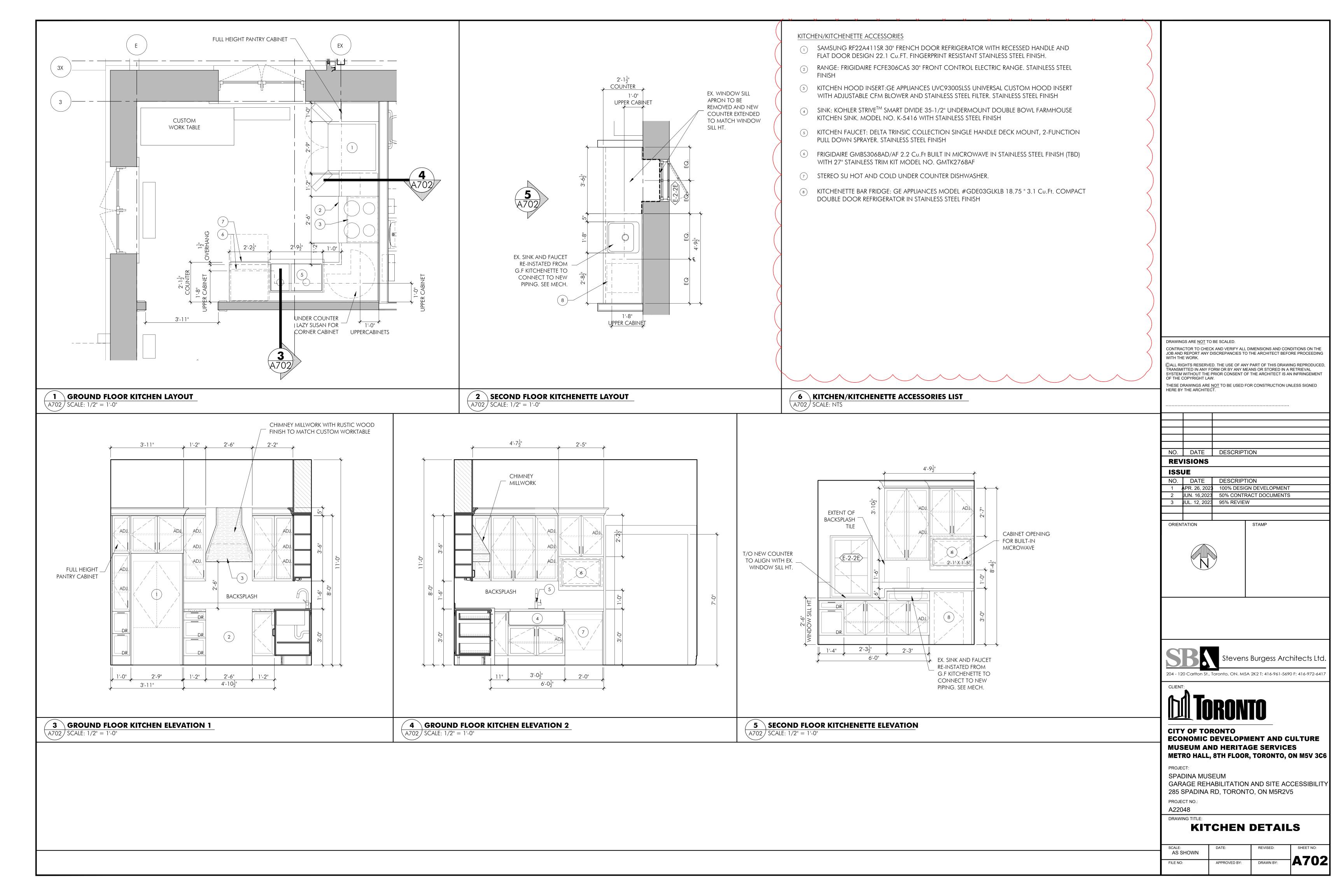


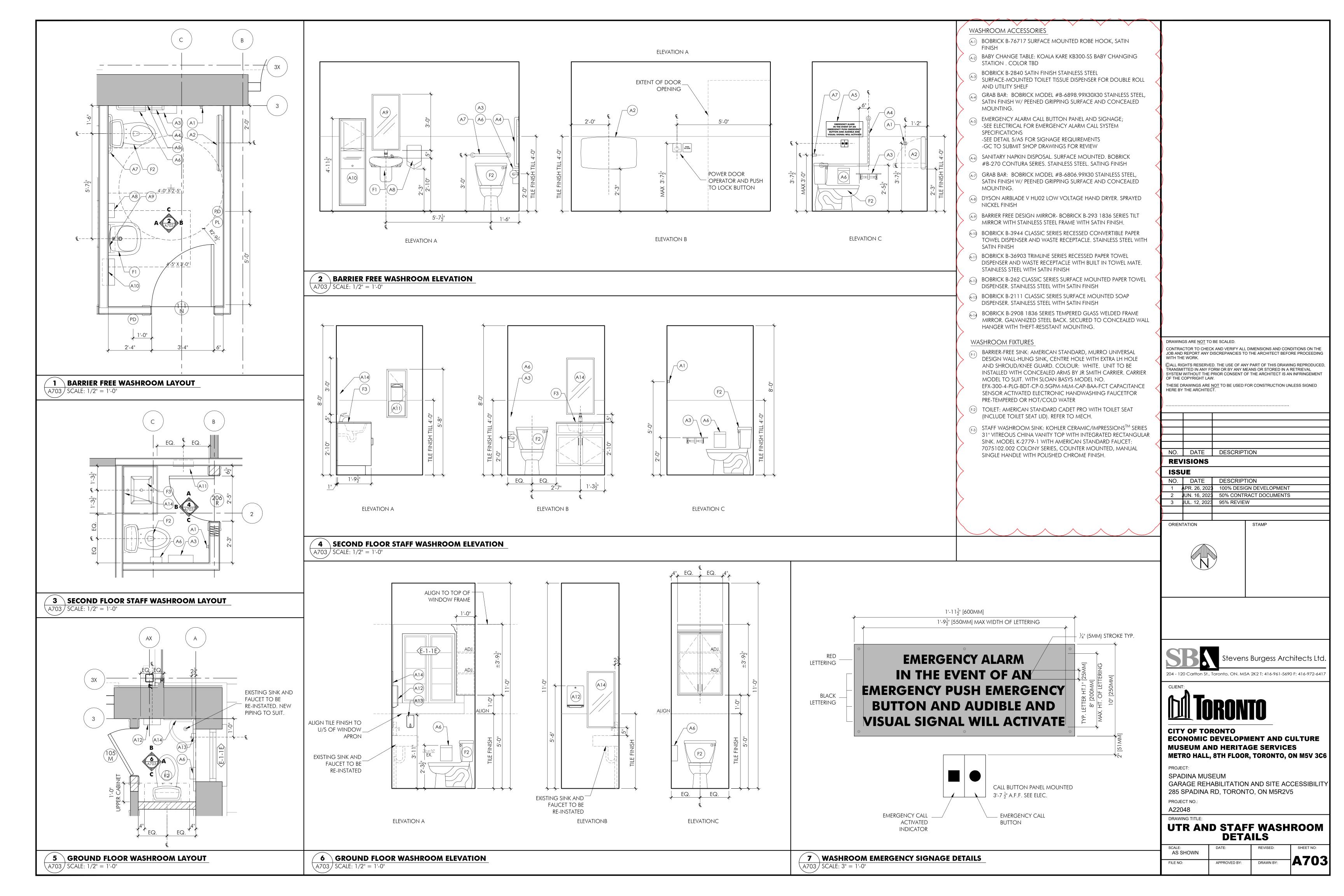


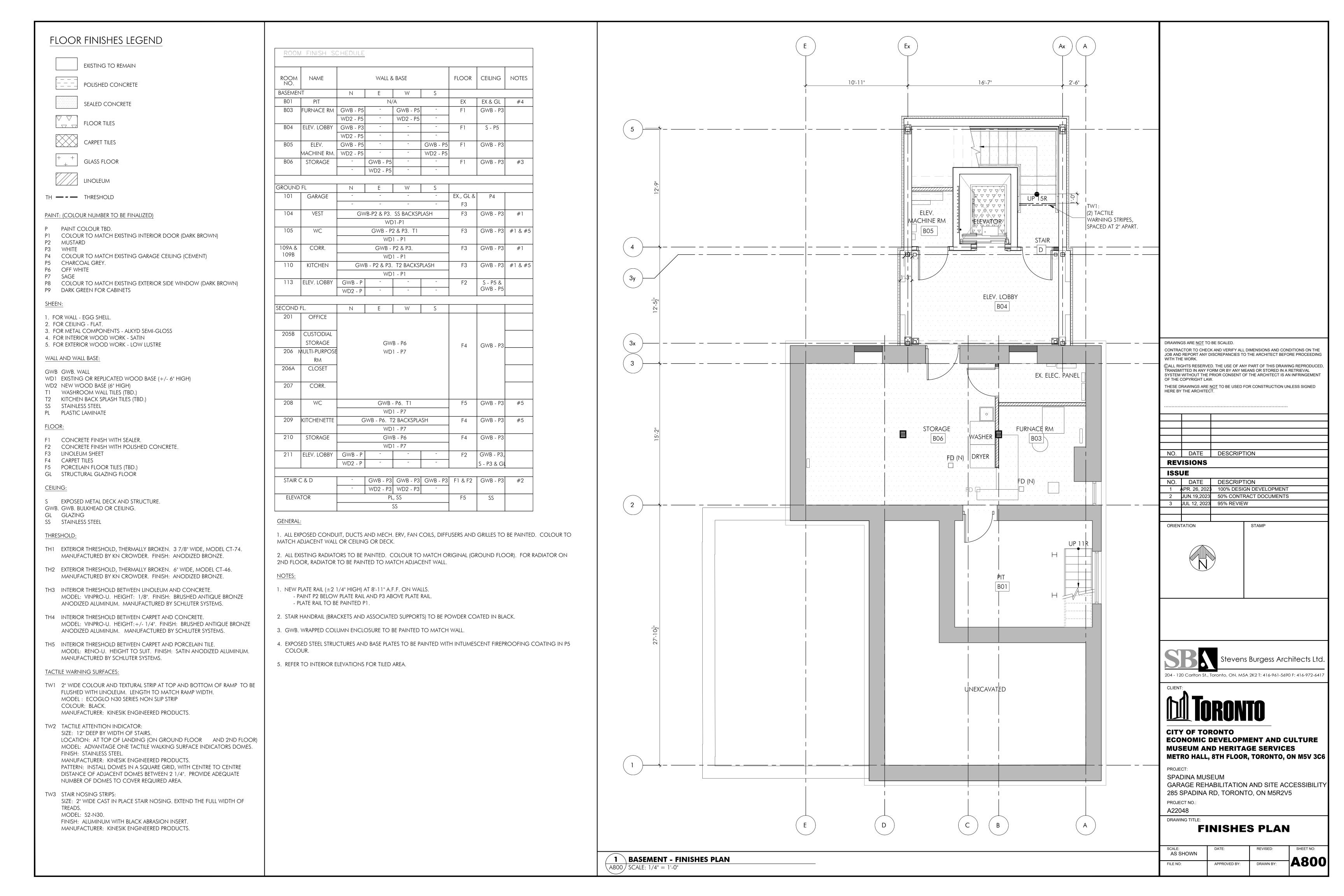


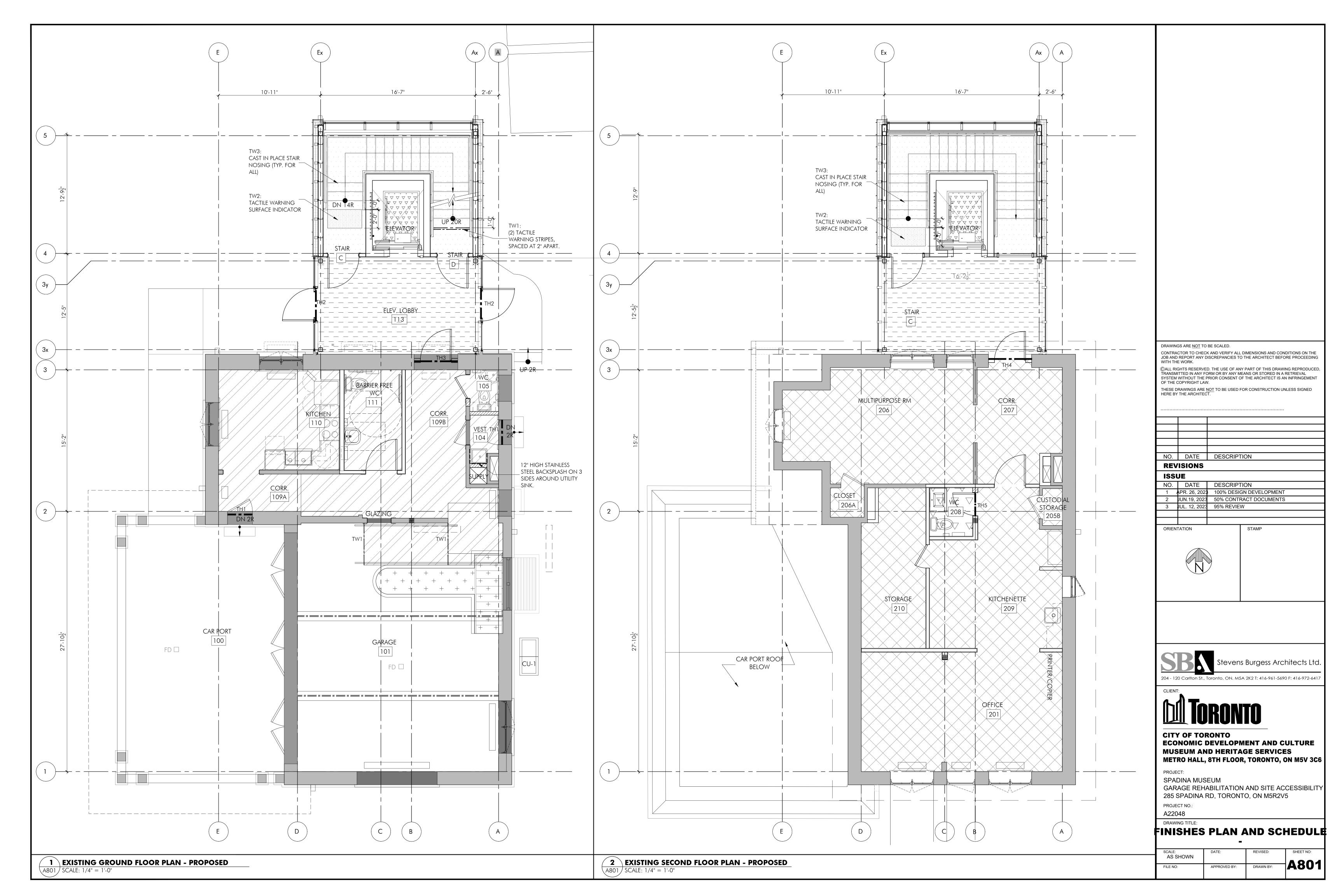


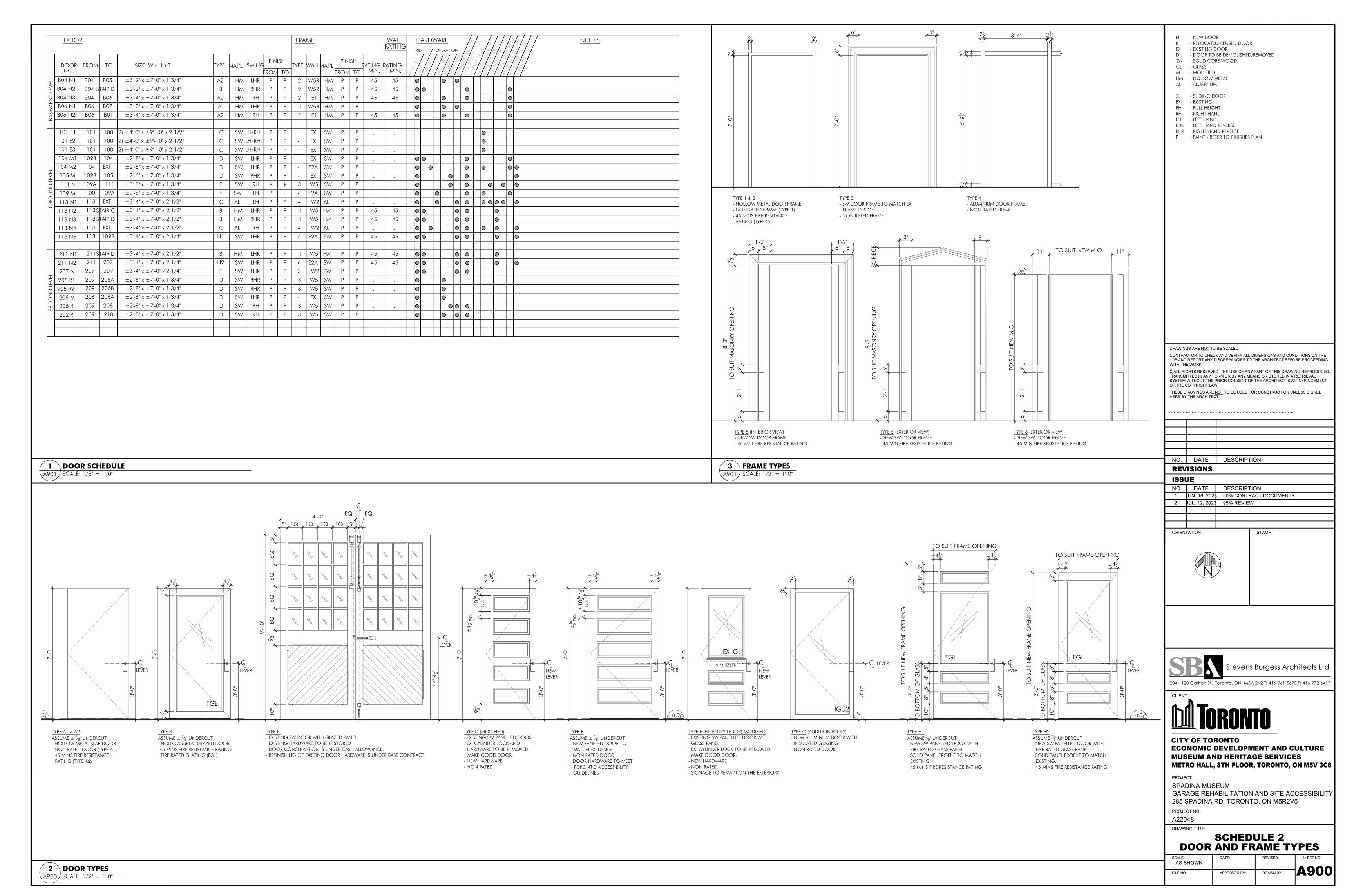


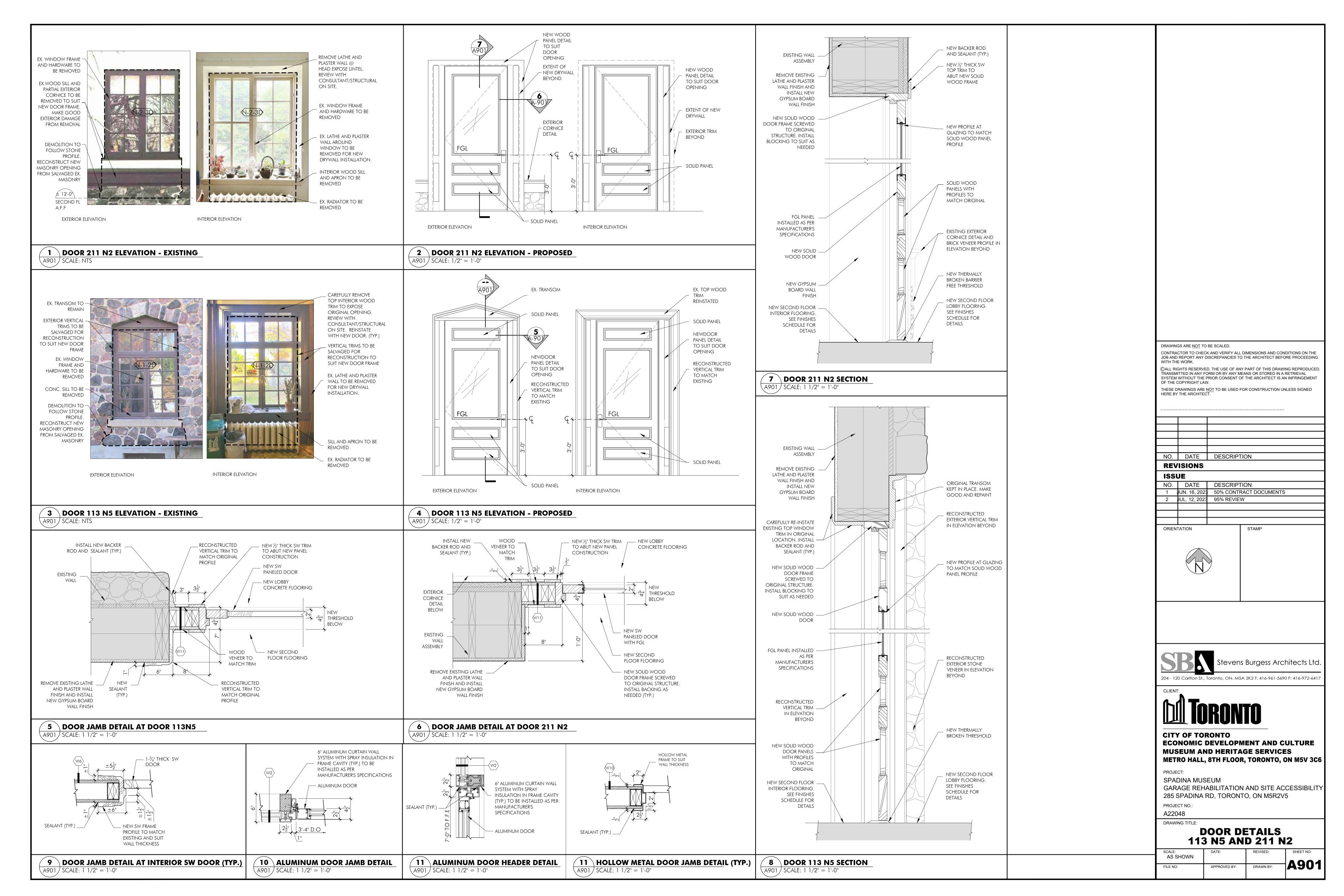


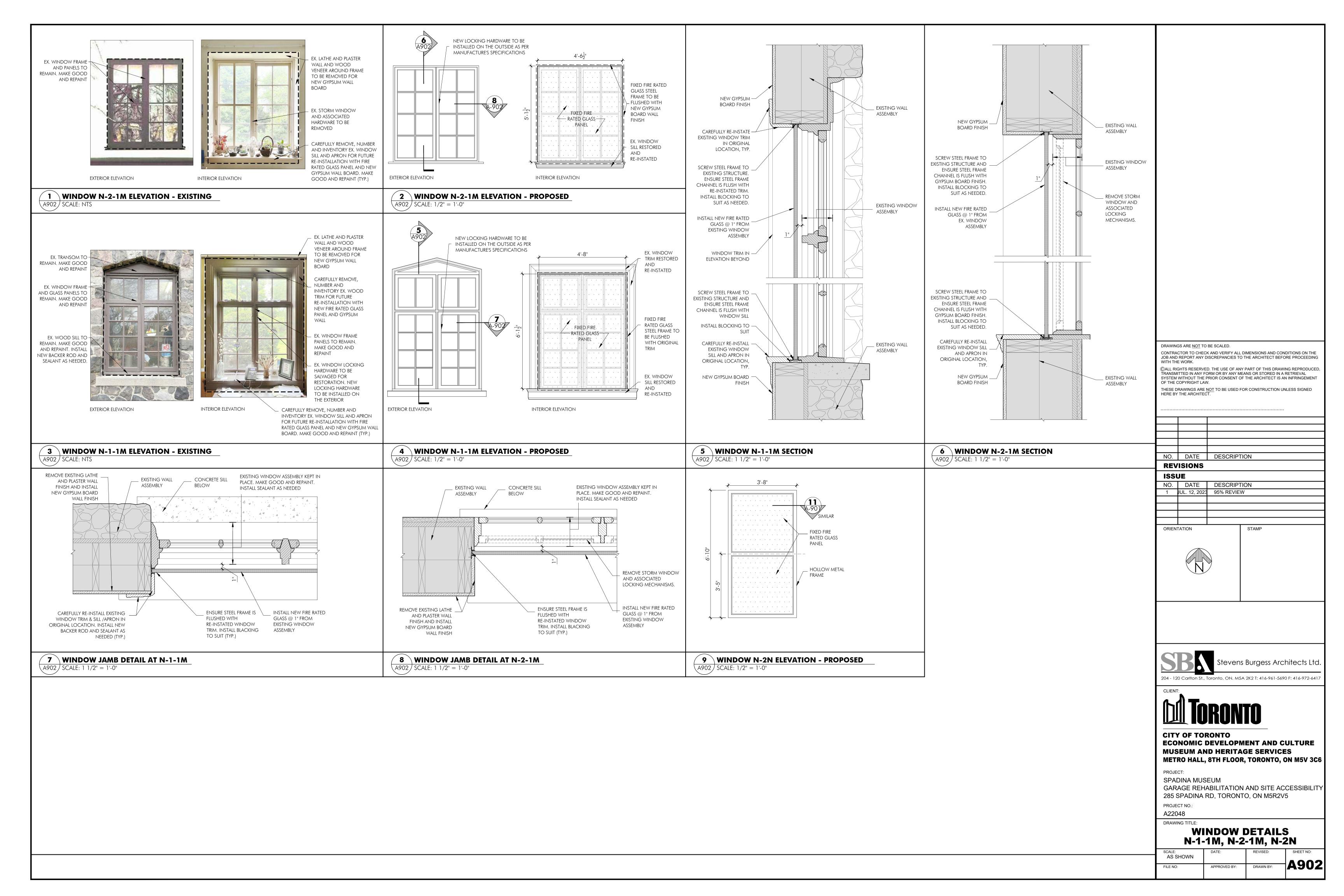


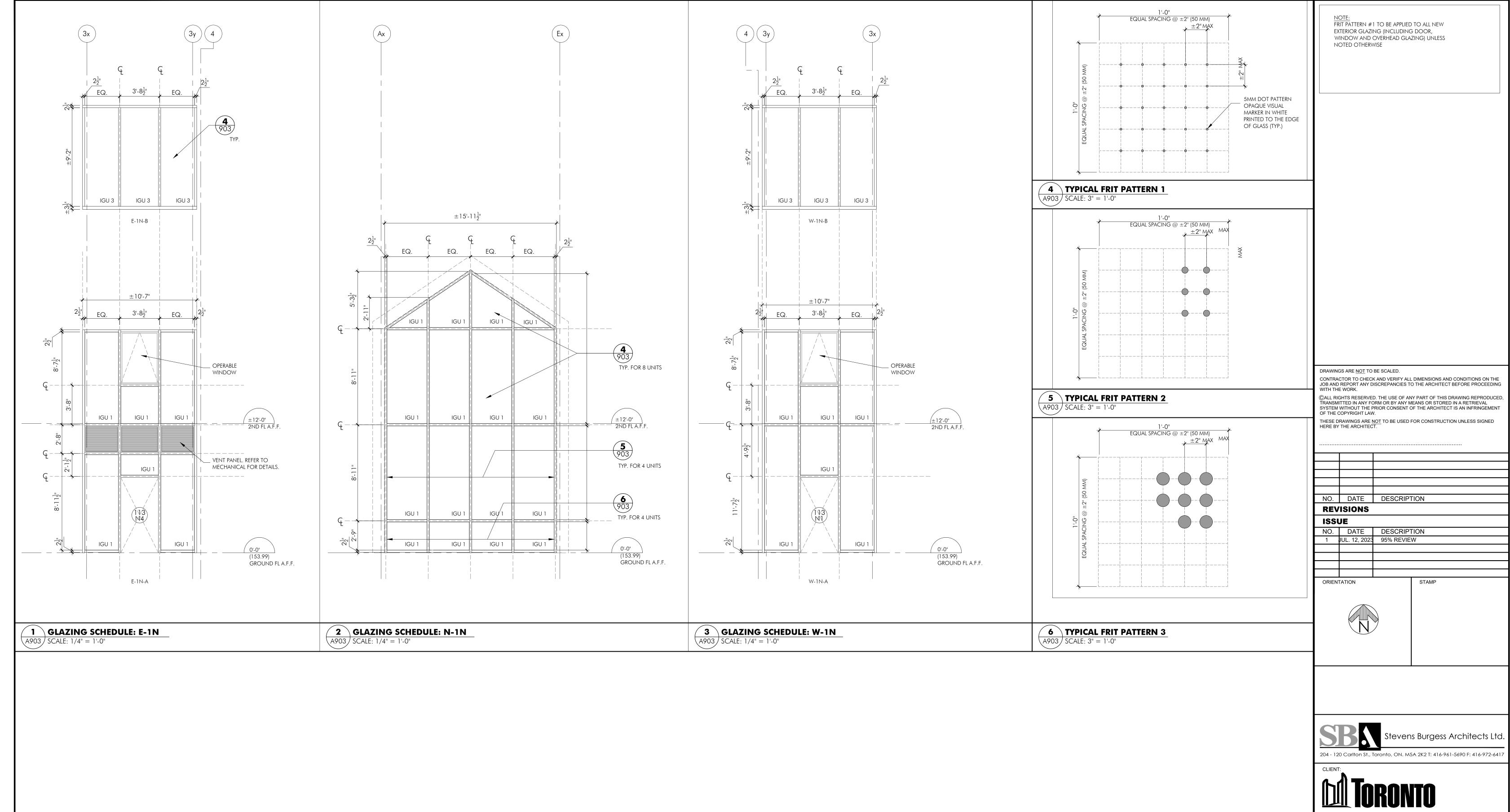


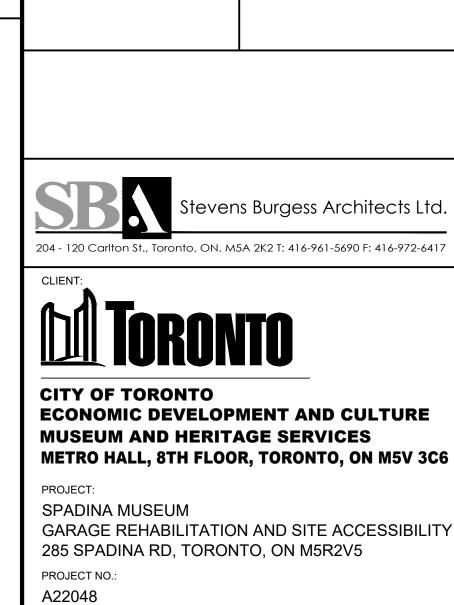












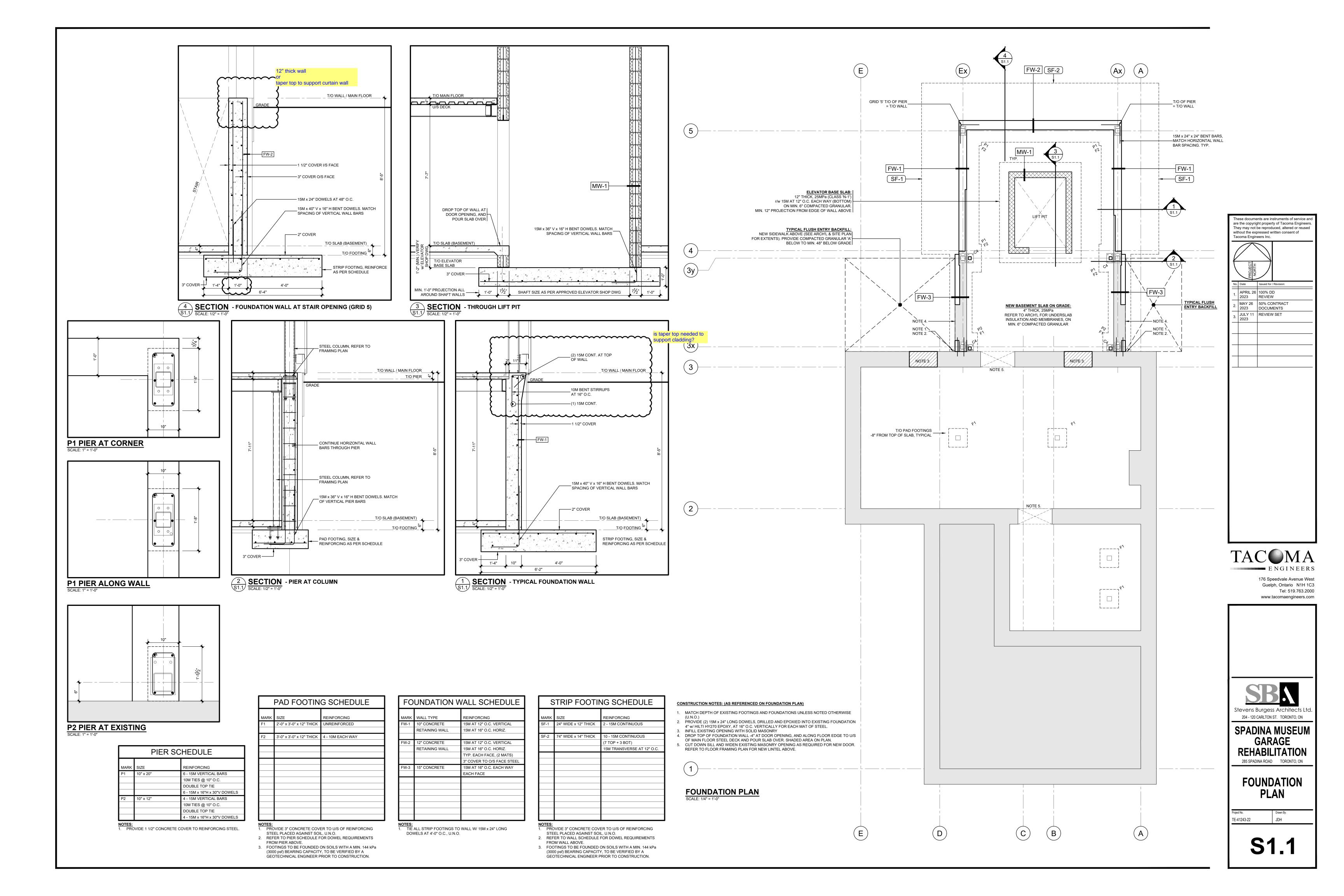
GLAZING SCHEDULE E-1N,N-1N,W-1N

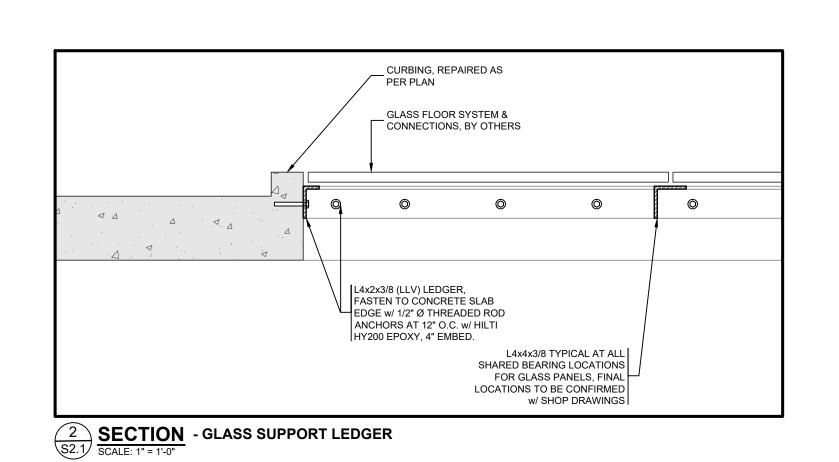
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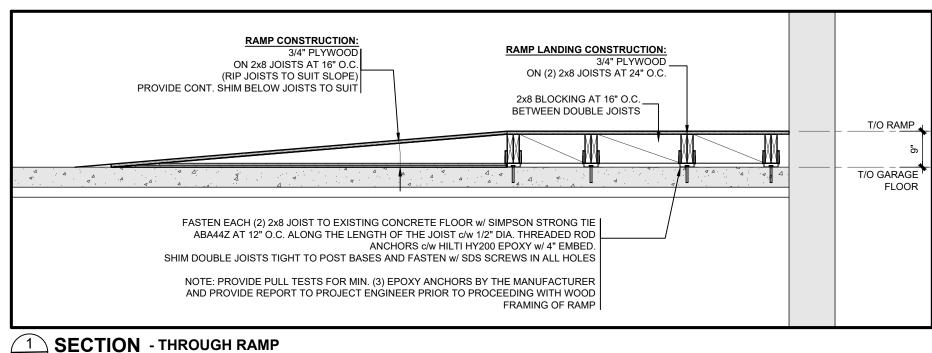
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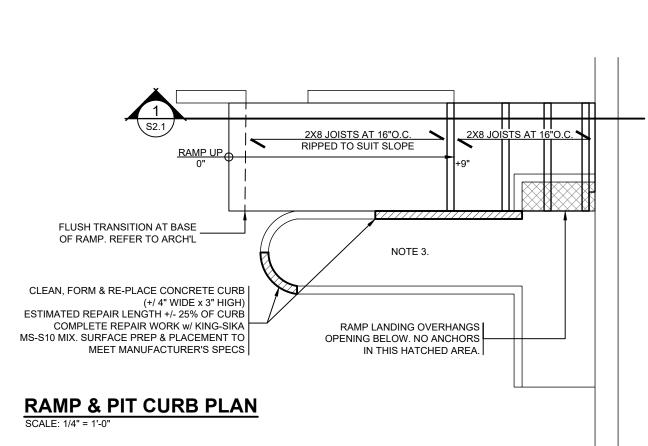
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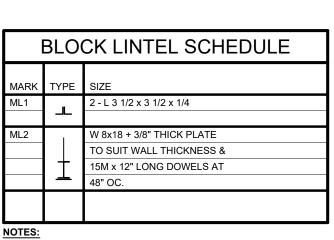
SCALE: AS SHOWN











CONSTRUCTION NOTES: (AS REFERENCED ON FRAMING PLANS)

DRAWINGS FOR DESIGN. MINIMUM STRUCTURAL SPECS:

6. CURTAIN WALL, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS 7. ROOF GLAZING, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS

9. 1 1/2" x 22ga. METAL ROOF DECK. (MIN. 3 SPAN CONTINUOUS)

8. STEEL STUD WALLS, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS

HY270 EPOXY AT 12" O.C. (MIN. 3 ANCHORS PER SECTION OF ANGLE)

HEADER c/w SIMPSON STRONG TIE LUS210-2 EACH END TO TRIMMERS.

STRINGERS: C12x20.7 w/ CLOSER PLATE TREADS: 14ga BENT METAL w/ CONCRETE FILL

U410R HANGER FROM HEADER TO TRIMMER.

15. REINFORCE EXISTING TRIMMER w/ (1) 2x10 SISTER.

STRUCTURAL WALL SCHEDULE

IW-1 8" CONCRETE BLOCK 15M VERTICAL AT 8" OC.

NOTES:

1. TIE BASE OF WALL TO FOOTING / FOUNDATION WALL WITH 15M

x 24" LONG DOWELS. MATCH SPACING OF WALL REINFORCING,

FLUSH FRAMED LVL FLOOR BEAM.

STRONG TIE LU210R-18 HANGERS AT EACH JOIST.

PRIOR TO CONSTRUCTION.

12. L4x4x1/4 TRIMMER ANGLE

CONNECTIONS.

EXISTING HEADERS & TRIMMERS.

NEW 4" CONCRETE SLAB ON 1 1/2" x 22ga. HI-BOND METAL DECK.
 EXISTING 2x10 AT 16" O.C. CUT JOISTS TO SUIT NEW FLUSH LVL BEAM AND PROVIDE SIMPSON

3. NEW GLASS FLOOR, DESIGN BY OTHERS. SUBMIT P.ENG STAMPED SHOP DRAWING FOR REVIEW

4. INFILL EXISTING STAIR OPENING w/ FULL LENGTH 2x10 AT 16" O.C. PROVIDE JOIST HANGERS TO

5. STAIRS, LANDINGS, GUARDS AND HANDRAILS BY MISC. METALS FABRICATOR. SUBMIT P.ENG

STAMPED DRAWINGS FOR REVIEW PRIOR TO FABRICATION. REFER TO ARCHITECTURAL

5.4. SUPPORT LANDINGS ON BUILDING COLUMNS AND ELEVATOR SHAFT WHERE REQUIRED.

10. PROVIDE L6x6x3/8 ANGLE, FASTEN TO ELEVATOR SHAFT WALL w/ 1/2" THREADED ROD w/ HILTI

HANGERS TO SUPPORT JOISTS FRAMING INTO HEADER. AND PROVIDE SIMPSON STRONG TIE

14. MODIFY EXISTING H-FRAME SO EXISTING TRIMMER JOISTS SUIT NEW OPENING WIDTH, SUCH THAT TRIMMER JOISTS BEAR MIN. 12" FROM EDGE OF NEW OPENING. PROVIDE NEW (2) 2x10

16. PROVIDE SIMPSON STRONG TIE U410R HANGER TO CONNECT EXISTING TRIMMER TO NEW

17. L6x6x3/8 ANGLE w/ 1/2"Ø THREADED ROD ANCHORS AT 12" O.C. REFER TO DETAIL 2/S3.1 FOR

9 GA. LADDER TYPE JOINT REINFORCING AT 24" ((EVERY THIRD COURSE)

GROUT ALL CORES SOLID

COLUMN SCHEDULE

ANCHOR BOLTS

SEE PLAN & DETAILS

4 - 3/4" DIA. ANCHOR RODS

4 - 3/4" DIA. ANCHORS

BASEPI ATE SIZE

12" x 3/4" x 12"

SEE PLAN

11. L 6x4x1/4 (LSH) TRIMMER ANGLE. SET ANGLE TO SUIT EXPANSION JOINT, REFER TO ARCH'L

13. EXISTING H-FRAME TO REMAIN, PROVIDE NEW SIMPSON STRONG TIE LU210R-18 JOIST

LANDINGS: 4" CONCRETE SLAB ON 1 1/2" x 22ga HI-BOND METAL DECK, w/ L4x4x1/4 TRIMMER

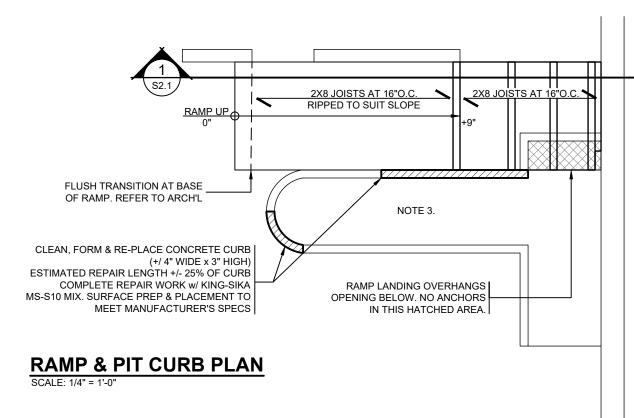
NOTES:

1. MIN. BEARING FOR STEEL LINTELS TO BE 8" U.N.O.

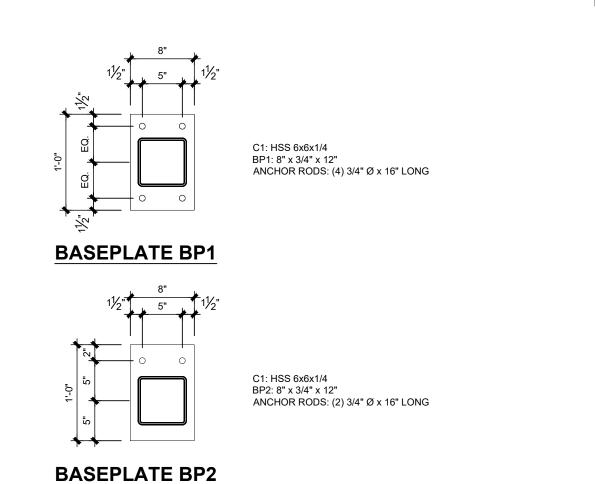
	WALL PL	ATE SCHEDULE
MARK	SIZE	DOWELS
WP1	7" x 1/2" x 7"	1 - 15M x 24" LONG
		WELDED TO U/S OF PLATE

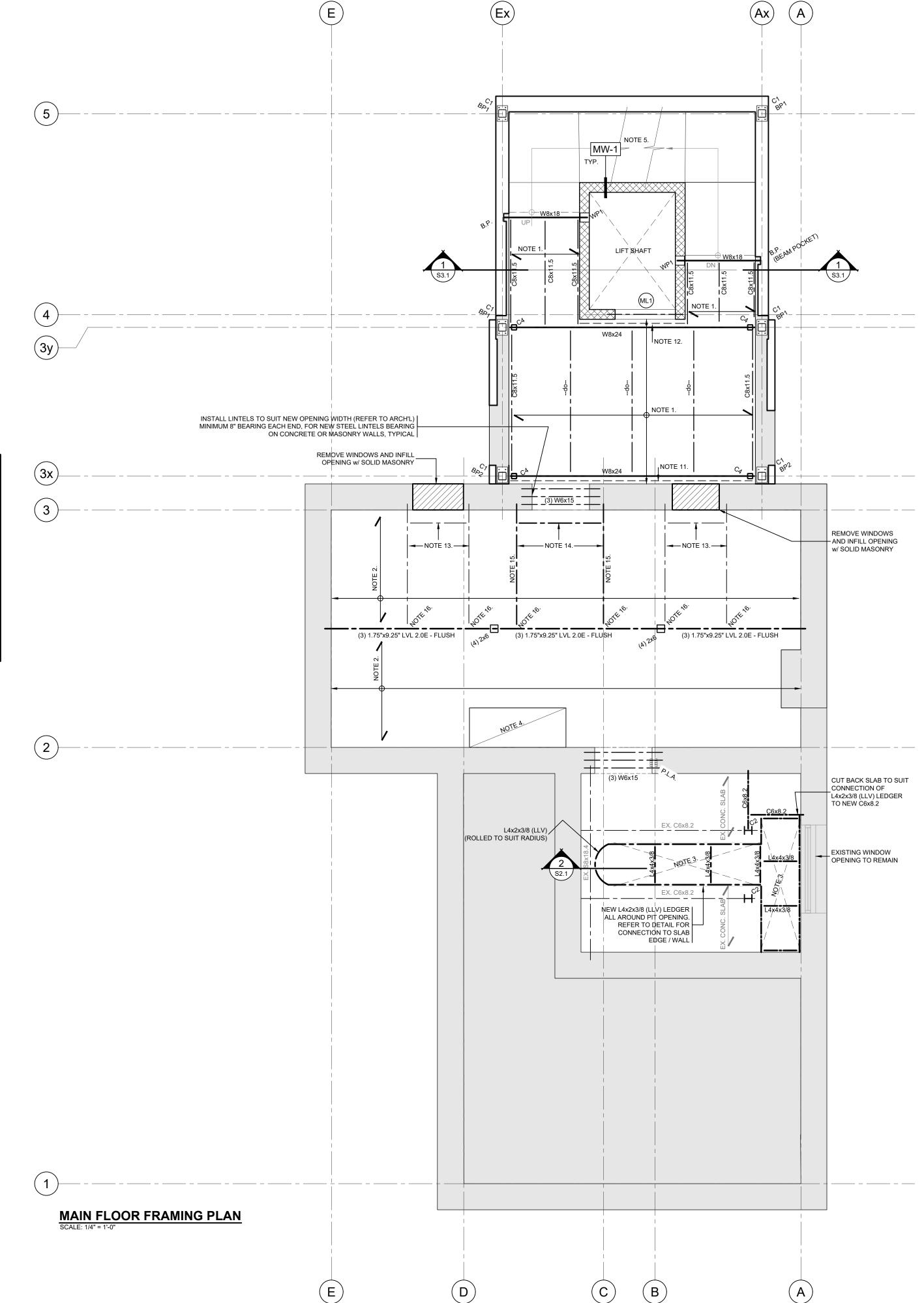
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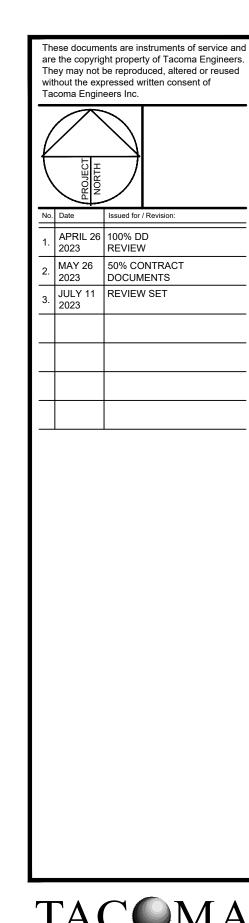
1. GROUT VOIDS SOLID BELOW WALL PLATE.
2. BEAMS TO BEAR FULLY ONTO WALL PLATE.



S2.1 SCALE: 1/2" = 1'-0"







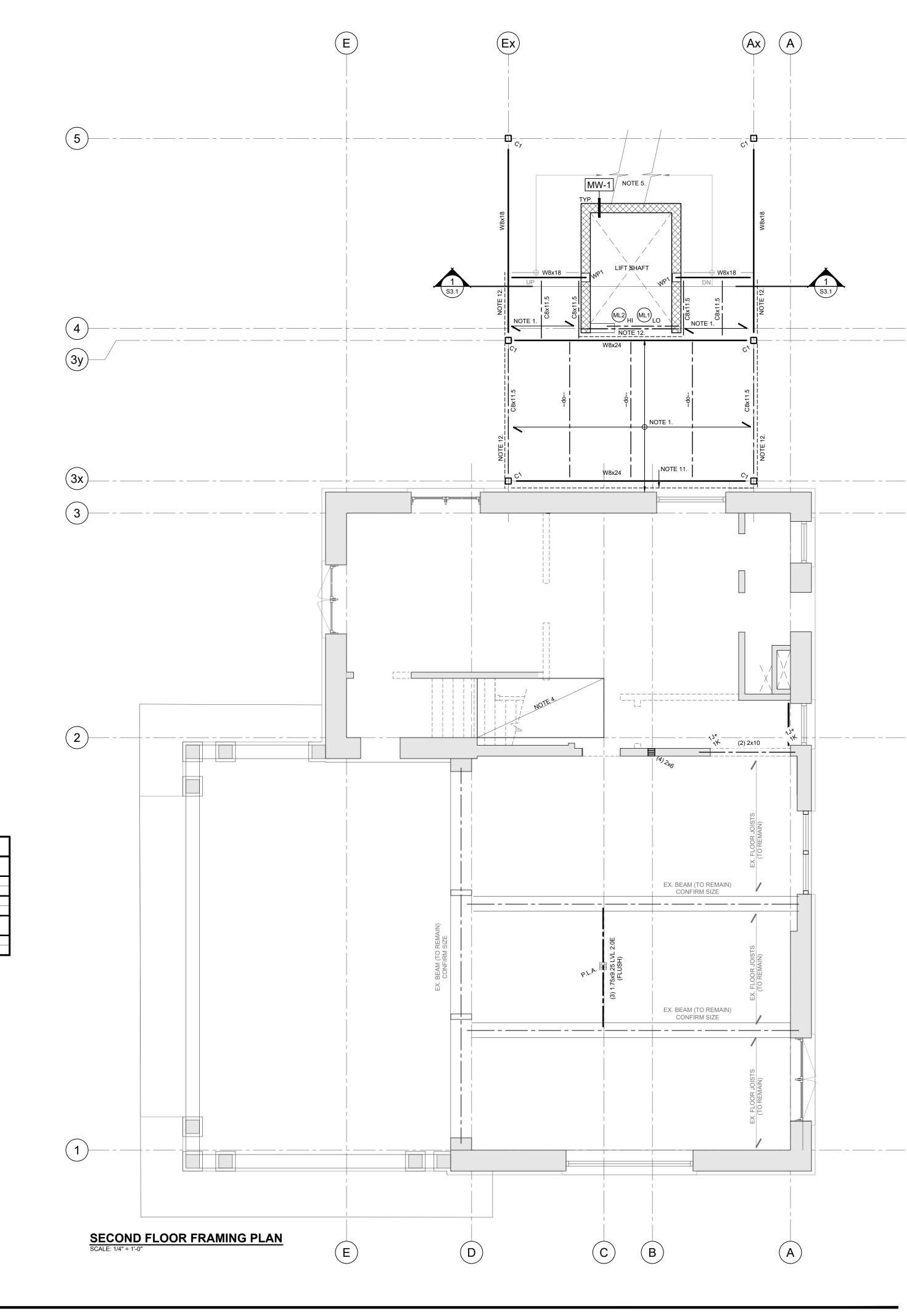
176 Speedvale Avenue West Guelph, Ontario N1H 1C3 Tel: 519.763.2000 www.tacomaengineers.com

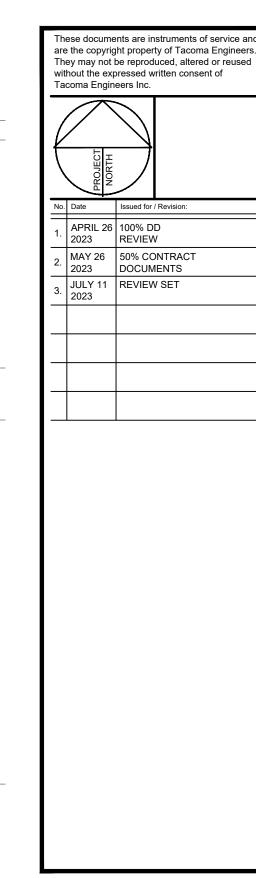


204 - 120 CARLTON ST. TORONTO, ON SPADINA MUSEUM **GARAGE REHABILITATION**

> 285 SPADINA ROAD TORONTO, ON MAIN FLOOR

JDH TE-41243-22





176 Speedvale Avenue West Guelph, Ontario N1H 1C3 Tel: 519.763.2000 www.tacomaengineers.com

Stevens Burgess Architects Ltd 204 - 120 CARLTON ST. TORONTO, ON

SPADINA MUSEUM GARAGE REHABILITATION 285 SPADINA ROAD TORONTO, ON

SECOND **FLOOR** FRAMING PLAN

TE-41243-22

CONSTRUCTION NOTES: (AS REFERENCED ON FRAMING PLANS)

- NEW 4" CONCRETE SLAB ON 1 1/2" x 22ga. HI-BOND METAL DECK.
 EXISTING 2x10 AT 16" O.C. CUT JOISTS TO SUIT NEW FLUSH LVL BEAM AND PROVIDE SIMPSON
- STRONG TIE LU210R-18 HANGERS AT EACH JOIST. 3. NEW GLASS FLOOR, DESIGN BY OTHERS. SUBMIT P.ENG STAMPED SHOP DRAWING FOR REVIEW PRIOR TO CONSTRUCTION. 4. INFILL EXISTING STAIR OPENING w/ FULL LENGTH 2x10 AT 16" O.C. PROVIDE JOIST HANGERS TO EXISTING HEADERS & TRIMMERS.
- STAIRS, LANDINGS, GUARDS AND HANDRAILS BY MISC. METALS FABRICATOR. SUBMIT P.ENG STAMPED DRAWINGS FOR REVIEW PRIOR TO FABRICATION. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGN. MINIMUM STRUCTURAL SPECS: 5.1. STRINGERS: C12x20.7 w/ CLOSER PLATE
- 5.2. TREADS: 14ga BENT METAL w/ CONCRETE FILL 5.3. LANDINGS: 4" CONCRETE SLAB ON 1 1/2" x 22ga HI-BOND METAL DECK, w/ L4x4x1/4 TRIMMER
- 5.4. SUPPORT LANDINGS ON BUILDING COLUMNS AND ELEVATOR SHAFT WHERE REQUIRED. 6. CURTAIN WALL, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS 7. ROOF GLAZING, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS 8. STEEL STUD WALLS, BY OTHERS. SUBMIT STAMPED SHOP DRAWINGS
- 9. 1 1/2" x 22ga. METAL ROOF DECK. (MIN. 3 SPAN CONTINUOUS) 10. PROVIDE L6x6x3/8 ANGLE, FASTEN TO ELEVATOR SHAFT WALL w/ 1/2" THREADED ROD w/ HILTI HY270 EPOXY AT 12" O.C. (MIN. 3 ANCHORS PER SECTION OF ANGLE)
- 11. L 6x4x1/4 (LSH) TRIMMER ANGLE. SET ANGLE TO SUIT EXPANSION JOINT, REFER TO ARCH'L 12. L4x4x1/4 TRIMMER ANGLE 13. EXISTING H-FRAME TO REMAIN, PROVIDE NEW SIMPSON STRONG TIE LU210R-18 JOIST
- HANGERS TO SUPPORT JOISTS FRAMING INTO HEADER. AND PROVIDE SIMPSON STRONG TIE U410R HANGER FROM HEADER TO TRIMMER.
- 14. MODIFY EXISTING H-FRAME SO EXISTING TRIMMER JOISTS SUIT NEW OPENING WIDTH, SUCH THAT TRIMMER JOISTS BEAR MIN. 12" FROM EDGE OF NEW OPENING. PROVIDE NEW (2) 2x10 HEADER c/w SIMPSON STRONG TIE LUS210-2 EACH END TO TRIMMERS. 15. REINFORCE EXISTING TRIMMER w/ (1) 2x10 SISTER.
- 16. PROVIDE SIMPSON STRONG TIE U410R HANGER TO CONNECT EXISTING TRIMMER TO NEW FLUSH FRAMED LVL FLOOR BEAM.
- 17. L6x6x3/8 ANGLE w/ 1/2"Ø THREADED ROD ANCHORS AT 12" O.C. REFER TO DETAIL 2/S3.1 FOR CONNECTIONS.

STI	RUCTURAL W	VALL SCHEDULE
MARK	SIZE	REINFORCING
MW-1	8" CONCRETE BLOCK	15M VERTICAL AT 8" OC.
		9 GA. LADDER TYPE
		JOINT REINFORCING AT 24" O.C.
		(EVERY THIRD COURSE)
		GROUT ALL CORES SOLID

NOTES:

1. TIE BASE OF WALL TO FOOTING / FOUNDATION WALL WITH 15M x 24" LONG DOWELS. MATCH SPACING OF WALL REINFORCING, MAXIMUM 48" OC.

		COI	LUMN SCHEDUI	_E
MARK	TYPE	COLUMN SIZE	BASEPLATE SIZE	ANCHOR BOLTS
C1		HSS 5 x 5 x 1/4	SEE PLAN	SEE PLAN & DETAILS
C2	I	W6x15	12" x 3/4" x 12"	4 - 3/4" DIA. ANCHOR RODS
C3				
C4	0	HSS 4x4x1/4	8" x 3/4" x 12"	4 - 3/4" DIA. ANCHORS

	BLO	CK LINTEL SCHEDULE
MARK	TYPE	SIZE
ML1	-	2 - L 3 1/2 x 3 1/2 x 1/4
ML2		W 8x18 + 3/8" THICK PLATE
		TO SUIT WALL THICKNESS &
	🕇	15M x 12" LONG DOWELS AT
	1	48" OC.

NOTES:

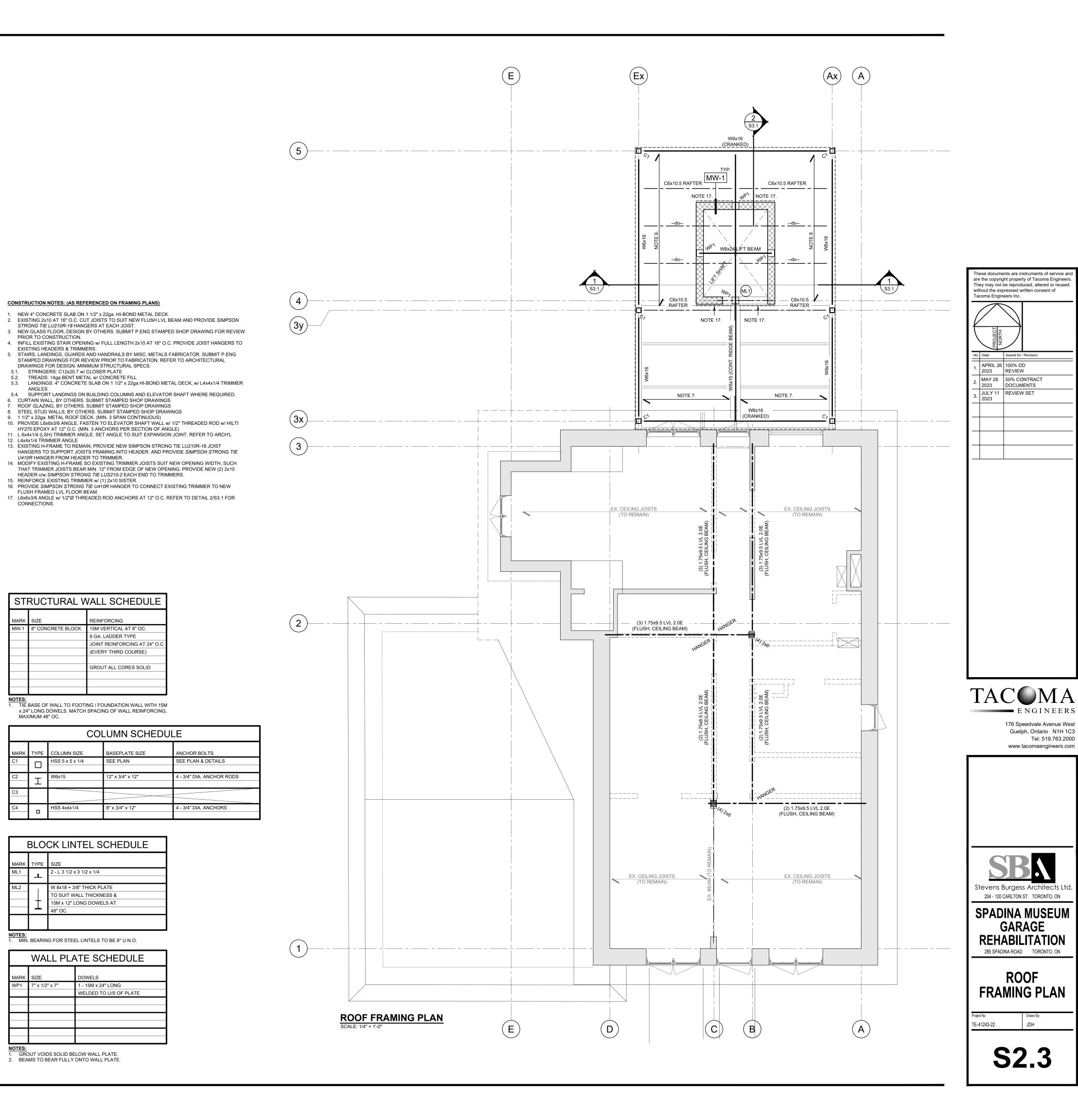
1. MIN. BEARING FOR STEEL LINTELS TO BE 8" U.N.O.

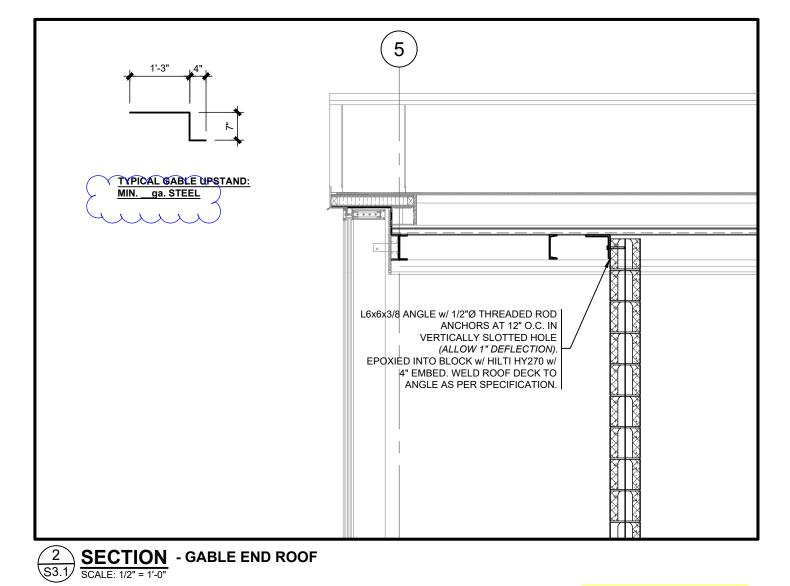
	WALL PLA	ATE SCHEDULE
MARK	SIZE	DOWELS
WP1	7" x 1/2" x 7"	1 - 15M x 24" LONG
		WELDED TO U/S OF PLATE

NOTES:

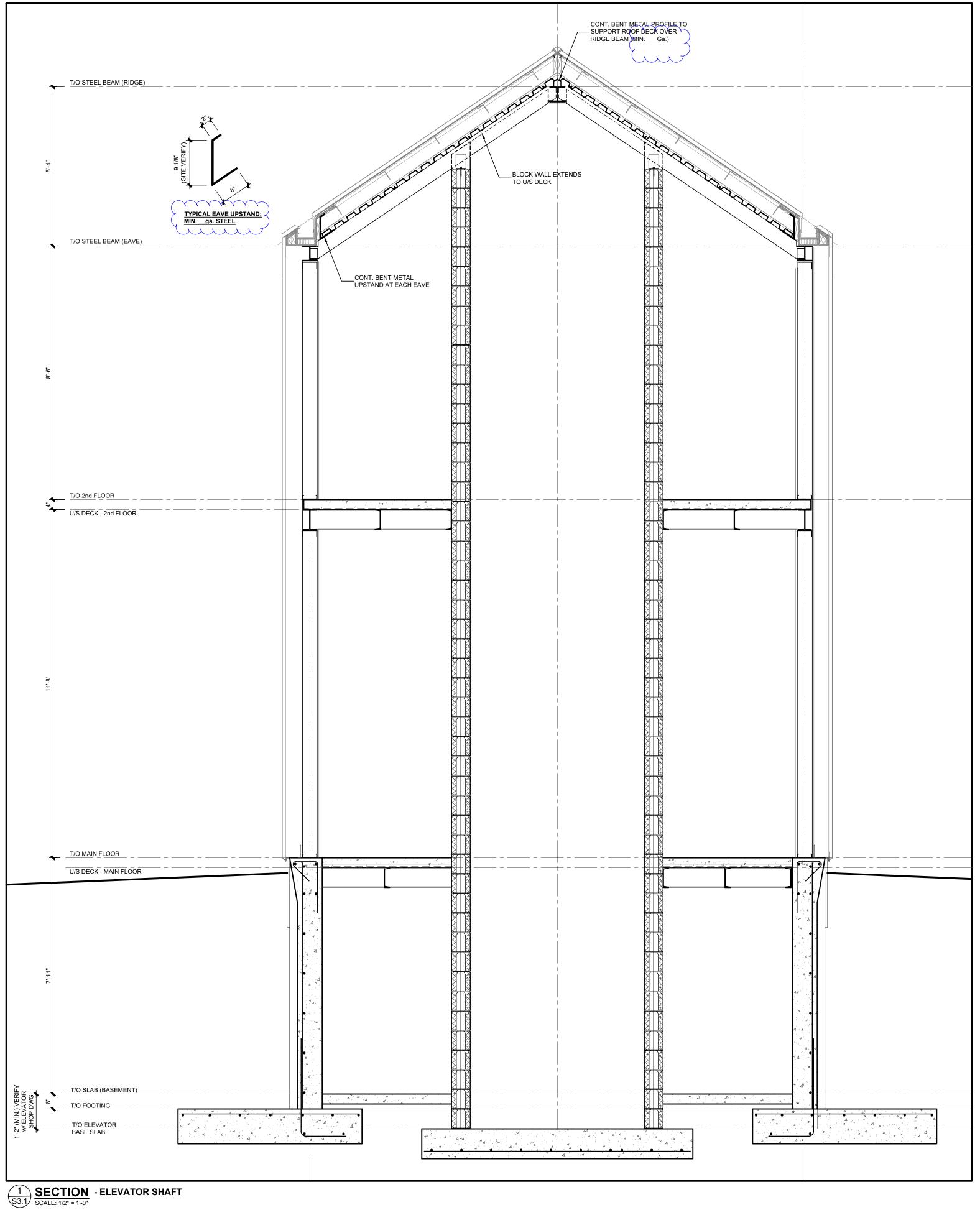
GROUT VOIDS SOLID BELOW WALL PLATE.

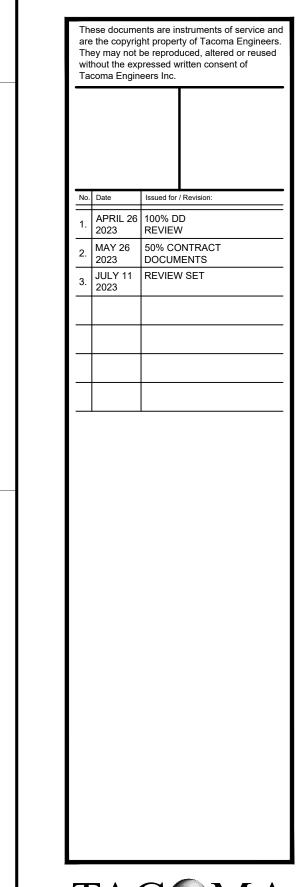
BEAMS TO BEAR FULLY ONTO WALL PLATE.





metal upstand gauge / thickness to follow, typical





TAC MA
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285 SPADINA ROAD TORONTO, ON

SECTION

Project No. Drawn By:
TE-41243-22 JDH

S3.1

GENERAL NOTES:

- 1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FOLLOWING NOTES SHALL GOVERN. 2. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE ONTARIO BUILDING CODE AS IN EFFECT JANUARY 2022 (OBC 2012 r2022), ANY LOCAL REGULATIONS AND BYLAWS, AND THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA) AND CURRENT REGULATIONS FOR CONSTRUCTION PROJECTS. ALL CODES AND STANDARDS SHALL BE THOSE REFERENCED IN OBC
- 3. ALL STANDARDS ARE TO BE THE YEAR, EDITIONS, DOCUMENT NUMBERS, ETC AS PER OBC 2012 r2022 DIVISION B, T.1.3.1.2. WHERE DISCREPANCIES EXIST BETWEEN OUR DRAWINGS AND T.1.3.1.2, THE TABLE SHALL GOVERN UNLESS NOTED OTHERWISE. THIS SET OF DRAWINGS SUPERCEDES AND REPLACES ALL PREVIOUS DRAWINGS.
- READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND ARCHITECTURAL, MECHANICAL, AND THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND VERIFY ALL DIMENSIONS GIVEN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS. REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT BEFORE PROCEEDING
- . IF ANY STRUCTURAL DISCREPANCIES ON THE DRAWINGS EXIST, THE MOST STRINGENT SHALL APPLY.
- DRAWINGS ARE NOT TO BE SCALED.
 CONSTRUCTION AND SHOP DRAWING REVIEW MUST BE PROVIDED AS PER CODE. SUBMIT SHOP DRAWINGS AS PER TABLE 1. SHOP DRAWINGS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER WHERE REQUIRED AND REVIEWED BY THE CONTRACTOR FOR DIMENSIONAL CORRELATION WITH THE DRAWINGS AND FIELD CONDITIONS PRIOR TO SUBMITTING TO TACOMA ENGINEERS. FABRICATION OF ELEMENTS ON SHOP DRAWINGS MAY NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY TACOMA ENGINEERS. REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT ONLY. REVIEW SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF RESPONSIBILITY FOR MAKING THE WORK ACCURATE AND IN CONFORMITY WITH THE PROJECT DOCUMENTS. WHERE THERE IS A
- ISCREPANCY BETWEEN THE SHOP DRAWINGS AND THE PROJECT DOCUMENTS, THE PROJECT DOCUMENTS SHALL GOVERN. CONSTRUCTION LOADINGS SHALL NOT EXCEED THE SPECIFIED DESIGN LOADS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR CONSTRUCTION LOADS AND TEMPORARY BRACING TO KEEP STRUCTURE PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION. ANY BRACING MEMBERS SHOWN ON THE DRAWINGS ARE REQUIRED FOR THE FINISHED STRUCTURE AND MAY NOT BE SUFFICIENT FOR ERECTION PURPOSES.
- 12. OBC 2012 r2022 DIVISION C SECTION 1.2.2 REQUIRES GENERAL REVIEW OF THE CONSTRUCTION BY THE DESIGN PROFESSIONAL. TACOMA ENGINEERS SHALL BE GIVEN A MINIMUM OF 48 HOURS NOTICE AT (519)763-2000 (GUELPH) BY THE CONTRACTOR FOR THE FOLLOWING REQUIRED CONSTRUCTION REVIEWS:
- DEMOLITION PRIOR TO COMMENCING ANY WORK.
 FOUNDATIONS PRIOR TO POURING FOOTINGS AND FOUNDATION WALLS. STRUCTURAL FRAMING (STRUCTURAL STEEL / WOOD FRAMING) - PRIOR TO COVERING WITH INTERIOR FINISHES. REINFORCED MASONRY - PRIOR TO GROUTING
- FINAL FRAMING UPON COMPLETION OF ALL STRUCTURAL ELEMENTS. 13. RETAIN A CERTIFIED INDEPENDENT TESTING OR INSPECTION COMPANY FOR TESTING & INSPECTION FOR THE ITEMS IN TABLE 2. THIS TESTING AND INSPECTION IS TO BE PAID FOR BY THE CONTRACTOR 14. THE DESIGN, REVIEW AND CERTIFICATION OF SECONDARY BUILDING ELEMENTS (THOSE ELEMENTS NOT SPECIFICALLY INCLUDED IN THESE DRAWINGS) IS THE RESPONSIBILITY OF THE PROJECT ARCHITECT. ELEMENTS INCLUDE BUT ARE NOT LIMITED TO ARCHITECTURAL FEATURES, NON-LOADBEARING INTERIOR WALLS, INTERIOR PARTITIONS, WINDOWS, DOORS, MASONRY VENEERS, CLADDING, AND SUPPORTS FOR MECHANICAL SYSTEMS.
- 15. ALL NON-LOADBEARING INTERIOR WALLS AND PARTITIONS (STEEL STUD, CONCRETE BLOCK, WOOD STUD) SHALL BE CONSTRUCTED TO ALLOW FOR 25mm (1") VERTICAL, INDEPENDENT DEFLECTION BELOW ALL FLOOR AND ROOF MEMBERS, WHILE STILL PROVIDING LATERAL SUPPORT TO THE TOP OF THE PARTITION, THROUGH THE USE OF DEFLECTION TRACKS, CLIPS, OR OTHER METHODS.

TABLE 1: SHOP DRAWING SUBMITTALS

ITEM	REQUIRED SUBMITTAL?	ENGINEER'S STAMP REQ'D?	NOTES
CONCRETE MIX DESIGN	YES	NO	
REINFORCING STEEL	YES	NO	
STRUCTURAL STEEL ERECTION DRAWINGS	YES	YES	STAMP FOR CONNECTIONS ONLY
MISC. METAL (INCLUDING GUARDS & HANDRAILS)	YES	YES	
MASONRY MORTAR MIX DESIGN	YES	NO	
MASONRY GROUT MIX DESIGN	YES	NO	
EXTERIOR CLADDING SYSTEMS	YES	YES	FOR CLADDING AND GLAZING

TABLE 2: REQUIRED TESTING & INSPECTION TO TACOMA ENGINEERS FROM THE TESTING COMPANY, FOR REVIEW

RESULTS SHALL BE SUBMITTED DIR	ECTLY TO	TACOMA ENGINEERS FROM THE TESTING COMPANY,
ПЕМ	REQ'D	NOTES
SOIL BEARING CAPACITY	YES	BY SOILS ENGINEER
SOIL COMPACTION	YES	BY SOILS ENGINEER
CONCRETE COMPRESSIVE TESTS	YES	MIN. 3 TEST, SEE CONCRETE NOTES
CONCRETE AIR ENTRAINMENT	YES	
CONCRETE SLUMP	NO	
MORTAR CUBES	YES	3 SETS
GROUT CYLINDERS	YES	3 SETS
STRUCTURAL STEEL INSPECTION	YES	
EXTERIOR LIGHT-WEIGHT STEEL FRAMING (STEEL STUDS)	YES	BY STEEL STUD ENGINEER. PROVIDE STAMPED FINAL REPORT.
CLADDING	YES	BY CLADDING ENGINEER, PROVIDE STAMPED FINAL REPORT

TABLE 3: REQUIRED SITE MEETINGS

THE FULLOWING MEETINGS ARE MAN	IDATURT,	PRIOR TO START OF THAT PHASE OF THE PROJEC
ПЕМ	REQ'D	NOTES
REINFORCED BLOCK WALLS	YES	MASONRY CONTRACTOR, ENGINEER & GENERAL CONTRACTOR. RE: CONTROL JOINTS, METHOD OF GROUTING, BAR LOCATIONS

STRUCTURAL DESIGN LOADS:

STRUCTURAL DESIGN IS TO OBC 2012 r2022 PART 4 PRIMARY GRAVITY STRUCTURAL SYSTEMS: ROOFS / FLOORS:

VARIOUS - SEE PLANS VERTICAL LOAD BEARING: VARIOUS - SEE PLANS **FOUNDATIONS** 03 - POURED CONCRETE

3. DESIGN LOADS ARE UNFACTORED UNLESS NOTED OTHERWISE. CLIMATIC DESIGN DATA (TORONTO (CITY HALL)): = 0.4 kPa= 0.44 kPa

Wind Pressure $q(\frac{1}{50})$ A. BUILDING IMPORTANCE CATEGORY

Importance Factor lw ULS = 1.0lw SLS = INTERNAL PRESSURE CATEGORY

THE STRUCTURE HAS BEEN DESIGNED TO RESIST WIND FORCES IN ACCORDANCE WITH THE PROCEDURE DESCRIBED IN THE OBC 2012 r2022 AND THE NATIONAL BUILDING CODE OF CANADA (NBCC) STRUCTURAL COMMENTARY

C. ROOF ROOF DEAD LOAD DL = 1.0 kPa (20 psf) Snow Importance Factor Is ULS = 1.0 Is SLS = 0.9

ROOF SNOW LOAD lsx[Ssx(CbxCwxCsxCa)+Sr] 1.0x[0.9x(0.8x1.0x1.0x1.0)+0.4]= 1.12 kPa (23.4 psf) BASIC CASE REFER TO PLANS FOR AREAS AND MAGNITUDE OF BUILT UP SNOW LOADS

THE ROOF STRUCTURE HAS BEEN DESIGNED CONFORMING TO OBC 4.1.6.4.(3). ADDITIONAL WATER LOADS (STORM WATER RETENTION) HAVE NOT BEEN INCLUDED IN THE DESIGN. THIS IS A M1 OR M2 DESIGN AS PER THE FLOW CONTROL ROOF DRAINAGE DECLARATION.

D. FLOOR LOADS: OCCUPANCY (LIVE) = 4.8 kPa (100 psf) (MAIN FLOOR); 2.4 kPa (SECOND FLOOR) = 100 CONCRETE (ADDITION FLOOR ONLY) DEAD LOAD = 2.34 + 1.0DL = 3.34 kPa (70 psf)

4. HANDRAIL DESIGN LOADS: TO OBC 4.1.5.14.(7).

FOUNDATIONS:

- ALL FOOTINGS SHALL BE FOUNDED IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL REPORT:
 NO GEOTECHNICAL REPORT HAS YET BEEN SUPPLIED FOR THIS PROJECT. ALL BEARING PRESSURES HAVE BEEN ASSUMED
 AND MUST BE VERIFIED ON SITE, PRIOR TO PLACING FOOTINGS [PREFERABLY PRIOR TO COMMENCING CONSTRUCTION].

 2. DESIGN BEARING PRESSURES ON UNDISTURBED NATIVE SOIL, OR APPROVED ENGINEERED FILL ARE AS FOLLOWS:
- <u>SLS, kPa (psf)</u> <u>ULS, kPa (psf)</u> <u>LOCATIONS</u> 150 (3000) 225 (4500) ALL FOOTING ALL FOOTINGS SOFT AREAS UNCOVERED DURING EXCAVATION SHALL BE SUB-EXCAVATED TO SOUND MATERIAL AND FILLED WITH CLEAN, FREE DRAINED GRANULAR SOIL COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY (SPDD), PLACED UNDER THE DIRECTION AND SUPERVISION OF A GEOTECHNICAL ENGINEER.
- SOIL BEARING CAPACITY, SITE CLASS, AND SOIL COEFFICIENTS SHOWN ON THE DRAWINGS (Kg., Kp., DENSITY, ETC.) SPECIFIED MUST BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF FOUNDATIONS. ANY NON-CONFORMANCE WITH HE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEER. LOCATE ALL FOOTINGS AND PIERS CENTRALLY UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE
- PLACE FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 1200mm (48") BELOW FINISHED GRADE UNLESS 7. DO NOT EXCEED A RISE OF 7 AND A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. USE STEPS NOT EXCEEDING 600mm (24") IN HEIGHT AND NOT LESS THAN 1200mm (48") IN
- MAINTAIN UNSUPPORTED SIDES OF EXCAVATION ONLY IF SAFE INCLINATION OF THE SIDES OF THE EXCAVATION IS PROVIDED IN ACCORDANCE WITH THE SOIL ENGINEERS RECOMMENDATIONS. IF REQUIRED, ERECT, MAINTAIN, AND REMOVE A SUPPORTING SHORING SYSTEM ALONG THE SIDES OF THE EXCAVATION, DESIGNED BY A PROFESSIONAL ENGINEER, IN ACCORDANCE WITH THE
- PROTECT SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOOTINGS.

 BACK FILL AGAINST FOUNDATION WALL IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS
- NEVER MORE THAN 450mm (18") HIGHER THAN THE LEVEL ON THE LOWER SIDE OF THE WALL, EXCEPT WHERE TEMPORARY SUPPORT FOR THE WALL IS PROVIDED OR WALLS ARE DESIGNED FOR SUCH UNEVEN PRESSURES SHOULD UNDERGROUND WATER BE ENCOUNTERED, PROVIDE DEWATERING FACILITIES TO KEEP WATER LEVEL BELOW FOOTINGS. REFER TO SOIL ENGINEERS RECOMMENDATIONS FOR REMEDIAL MEASURES. LATERAL EARTH PRESSURE FACTORS:

13. DO NOT BACKFILL FOUNDATION WALLS WITH BELOW-GRADE SPACE UNTIL THE UPPER / GROUND FLOOR FRAMING IS IN PLACE.

- q = 2.4 kPa or 4.8 kPa or 12.0 kPa (VARIES BY LOCATION) Ka = 0.50 (FOUNDATION WALLS)
- $K_0 = 0.35$ (retaining walls and curbs not supported at the top) Friction coefficient = 0.35

ALL REINFORCED CONCRETE ELEMENTS ARE DESIGNED IN ACCORDANCE WITH CAN/CSA-A23.3. CONCRETE WORK SHALL CONFORM TO CAN/CSA-A23.1,2,3 FOR MATERIALS AND WORKMANSHIP

CLASSES OF CONCRETE SHALL BE PLACED IN THE LOCATIONS NOTED: CLASS OF CONCRETE

CLASS OF CONCRETE

LOCATION

EXTERIOR STRUCTURALLY REINFORCED SLABS EXTERIOR UNREINFORCED SLABS ON GRADE, CURBS EXTERIOR WALLS, COLUMNS AND PIERS
INTERIOR CONCRETE FLOOR SLABS THAT ARE NOT SUBJECTED TO FREEZING OR CHLORIDES INTERIOR PIERS AND FOUNDATION WALLS NOT EXPOSED TO FREEZING INTERIOR CONCRETE ON COMPOSITE FLOOR DECK 4. CLASSES OF CONCRETE SHALL HAVE THE FOLLOWING MIX REQUIREMENTS:
 STRENGTH
 W/C RATIO
 AIR ENTRAINMENT
 CHLORIDE ION

 35 MPa (56 DAYS)
 0.40
 5% TO 8%
 <1500 COULOMBS AT 91 d</td>
 CLASS OF CONCRETE STRENGTH

N-2 20 MPa ADJUST AIR ENTRAINMENT PERCENTAGE FOR AGGREGATE SIZE BASED ON A23.1 TABLE 4. CONCRETE DESIGN IS BASED ON THE ABOVE MIX REQUIREMENTS. PHYSICAL PROPERTIES (SLUMP, AGGREGATE SIZE, ETC.) TO SUIT INSTALLATION (BY OTHERS) AND SHALL NOT AFFECT REQUIREMENTS SPECIFIED. ALL CONCRETE TO BE TESTED SHALL BE TESTED BY A C.S.A. CERTIFIED CONCRETE TESTING LABORATORY. CONTRACTOR TO PROVIDE COPIES OF TESTING REPORTS TO TACOMA ENGINEERS. NOT LESS THAN ONE STRENGTH TEST SHALL BE MADE FOR

5% TO 8%

- EACH 100 m3 OF CONCRETE WITH AT LEAST THREE TESTS FOR EACH CLASS OF CONCRETE USED, PER DAY. USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE. ALL CONCRETE SHALL BE KEPT MOIST DURING THE FIRST THREE DAYS OF CURING.

 TAKE ADEQUATE MEASURES TO PROTECT THE CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST SEVEN DAYS AFTER CONCRETE PLACEMENT. COLD WEATHER PROTECTION IS REQUIRED FOR ALL CONCRETE PLACED WHERE IT IS FORECASTED THAT THE TEMPERATURE WILL DROP BELOW 5'C WITHIN 24 HOURS OF PLACEMENT. PROTECTION PROVIDED, INCLUDING INSULATED TARPS, POLY COVERED STRAW, SUPPLEMENTAL HEAT AND/OR CHEMICAL ADMIXTURES, IS TO BE
- SUFFICIENT TO MAINTAIN A MINIMUM CURING TEMPERATURE OF 10°C FOR 3 DAYS. INSTALL V-NOTCH CONTROL JOINTS AT A MAXIMUM SPACING OF 24 TIMES THE WALL THICKNESS, IN BOTH SIDES OF ALL WALLS. CUT 50% OF THE HORIZONTAL REINFORCEMENT AT CONTROL JOINT LOCATIONS. FINISH EXPOSED CONCRETE WORK AS PER ARCHITECTURAL DRAWINGS. WHERE CONCRETE BEARS ON STEEL BEAMS, WELD 15M x 300mm (12") LONG DOWELS AT 1200mm (4'-0") O.C. TO CENTER
- DO NOT ADD WATER TO CONCRETE ON SITE. FOR UNREINFORCED WALLS, PROVIDE 2-15M BARS AROUND ALL WINDOWS AND DOOR OPENINGS EXTENDING 600mm (2'-0") BEYOND THE CORNERS OF THE OPENINGS. CALCIUM CHLORIDE OR ANY ADMIXTURE FORMULATION CONTAINING CHLORIDE SHALL NOT BE USED IN CONCRETE CONTAINING REINFORCEMENT, OR IN CONCRETE CLASSIFICATIONS S-1, S-2, OR C-1, C-2, OR FOR PARKING STRUCTURES, FLOORS
 RECEIVING DRY-SHAKE METALLIC HARDENERS, OR CONCRETE CONTAINING EMBEDDED ALUMINUM. USE ONLY IN DOSAGES LESS
- 16. FOR CONCRETE IN STEEL-CONCRETE COMPOSITE FLOORS, SEE THE 'STEEL DECK' SECTION OF NOTES. REBAR CHAIRS (BAR SUPPORTS) ARE TO BE OF PRECAST CONCRETE, PLASTIC OR STEEL. WOOD, CLAY BRICK AND CONCRETE BLOCK IS NOT ACCEPTABLE. STEEL CHAIRS MAY NOT BE USED IN CORROSIVE ENVIRONMENTS, INCLUDING PARKING GARAGES.

 18. DO NOT HARD TROWEL OR MACHINE TROWEL AIR ENTRAINED CONCRETE SLABS, BECAUSE IT CAN LEAD TO DELAMINATING AND
- 19. SLAB OR FLOOR FLATNESS (F_F) AND LEVELNESS (F_L) SHALL BE TO CSA A23.1. SLAB OR FLOOR FINISH TOLERANCES SHALL BE MEASURED USING THE F-NUMBER SYSTEM IN ACCORDANCE WITH ASTM E1155M. TOLERANCE MEASUREMENTS SHALL BE MADE A MAXIMUM OF 72 HOURS AFTER COMPLETION OF EACH FLOOR PLACEMENT. LEVELNESS (Fi.) TOLERANCES DO NOT APPLY TO CAMBERED, INCLINED SURFACES, OR SUSPENDED SLABS.

REINFORCING STEEL:

- ALL REBAR SHALL BE DEFORMED BARS CONFORMING TO G30.18 WITH A MINIMUM YIELD STRENGTH OF 400 MPa. REINFORCING STEEL SHALL BE FABRICATED BY A SUPPLIER EXPERIENCED IN BAR BENDING. ALL BEND DIAMETERS SHALL CONFORM TO CAN/CSA-A23.1. ALL REBAR SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE REINFORCING STEEL R.S.I.O. MANUAL OF
- STANDARD PRACTICE 2018. 4. MAINTAIN THE FOLLOWING CLEAR CONCRETE COVER TO REINFORCEMENT (U.N.O.): A) 40 mm (1.5") FOR CONCRETE PLACED IN FORMWORK FOR 15M OR SMALLER BARS. B) 50 mm (2") FOR CONCRETE PLACED IN FORMWORK FOR 20M OR LARGER BARS. 65 mm (2.5") FOR SLAB ON GRADE, TOP OF SLAB TO TOP LAYER OF STEEL.
- D) 75 mm (3") FOR CONCRETE PLACED AGAINST THE EARTH (BOTTOM OF FOOTINGS). CHAIRS SHALL BE USED TO MAINTAIN THE SPECIFIED CONCRETE COVER. MINIMUM REBAR TENSION LAP LENGTH (25 MPg. NORMAL DENSITY, NON COATED BARS) SHALL BE CLASS B SPLICES AS LISTED BELOW. MULTIPLY BY 1.3 FOR HORIZONTAL REBAR WITH MORE THAN 300mm (12") BELOW THE LAP, EXCEPT IN
- A) 450 mm (18") FOR 10M BARS B) 600 mm (24") FOR 15M BARS 750 mm (30") FOR 20M BARS 1200 mm (48") FOR 25M BARS 1400 mm (56") FOR 30M BARS
- LAP ALL HORIZONTAL BARS AT CORNERS WITH BENT DOWELS MEETING THE MINIMUM LAP REQUIREMENTS IN BOTH DIRECTIONS.

CONCRETE SLABS ON GRADE:

- 1. PLACE SLAB ON 150mm (6") GRANULAR FILL COMPACTED TO 98% SPDD FOUNDED ON NATIVE SOILS OR APPROVED ENGINEERED FILL, UNLESS NOTED OTHERWISE (REFER TO SOIL ENGINEERS REPORT FOR RECOMMENDATIONS). SEE ARCHITECTURAL DRAWINGS FOR RECESSES AND DEPRESSIONS IN SLAB ON GRADE AND MAINTAIN SLAB THICKNESS
- INDICATED ON STRUCTURAL DRAWINGS IN ALL CASES. 3. CONCRETE FLOORS SHALL BE COVERED WITH PLASTIC AND KEPT MOIST FOR THE FIRST THREE (3) DAYS OF CURING. INSTALL SAW-CUTS TO A MINIMUM OF 1/4 THE SLAB DEPTH IN THE FLOOR SLAB WITHIN 24 HOURS OF POUR. THE MAXIMUM CENTER/CENTER SPACING FOR SAW-CUTS SHALL BE 24 TIMES THE DEPTH UNLESS NOTED OTHERWISE.
- 5. FILL SAWCUTS AND CONSTRUCTION JOINTS WITH SEMI-RIGID, FLEXIBLE EPOXY JOINT FILLER. TO THE MANUFACTURER'S SPECIFICATIONS. ACCEPTABLE FILLERS (INTERIOR JOINTS): W.R. MEADOWS REZI-WELD FLEX. SIKA LOADFLEX. OR APPROVED ALTERNATE. ACCEPTABLE FILLERS (EXTERIOR JOINTS): FORMEX CANSEAL CLEAR NS, OR APPROVED ALTERNATE. ALL SLABS ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC (WWF) 152x152xMW18.7xMW18.7 (6"x6"x6gax6ga)
- SLABS ON GRADE TO BEAR ON MATERIALS SUITABLE FOR 25 kPg (500 psf) BEARING PRESSURES.

 SPECIFIED SOIL BEARING CAPACITY FOR SLABS ON GRADE MUST BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO LACING THE SLABS. ANY NON-CONFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEER.
- WHERE SLAB ON GRADE IS USED TO TIE THE TOP OF A WALL RETAINING EARTH, THAT WALL SHALL BE ADEQUATELY SHORED UNTIL THE SLAB HAD BEEN PLACED AND ATTAINED 75% OF ITS DESIGN STRENGTH.

MASONRY (CONCRETE BLOCK):

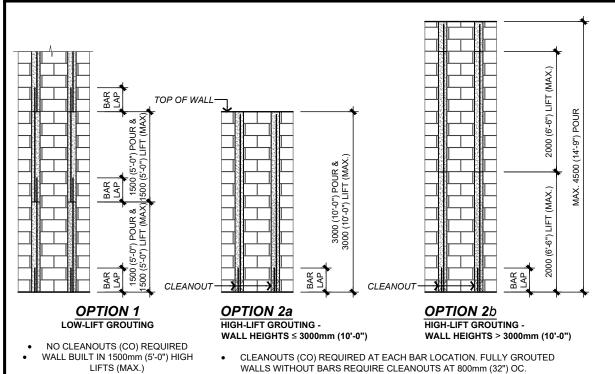
- MASONRY SHALL CONFORM TO CAN/CSA S304.1 "DESIGN OF MASONRY STRUCTURES" AND CAN/CSA-A371 "MASONRY CONSTRUCTION FOR BUILDINGS" PROTECT ALL WORK FROM FROST DAMAGE IN ACCORDANCE WITH RECOMMENDED PRACTICES AS PUBLISHED BY TH
- INTERNATIONAL MASONRY ALL WEATHER COUNCIL. NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5 DEGREES CELSIUS UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS. 3. CONCRETE BLOCKS SHALL BE REGULAR WEIGHT, 50% SOLID, WITH A MINIMUM 15 MPa COMPRESSIVE STRENGTH, UNLESS
- 4. MORTAR SHALL CONFORM TO CAN/CSA-A179. MORTAR SHALL BE TYPE 'S', WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH
- 5. GROUT SHALL CONFORM TO CAN/CSA-A179. 28 DAY GROUT STRENGTH SHALL BE 10 MPa (MINIMUM) FOR FINE GROUT AND 12.5 MPa (MINIMUM) FOR COARSE GROUT UNLESS NOTED.
- AGGREGATE FOR MORTAR AND GROUT MIXES SHALL BE PROPORTIONED (MEASURED) IN A DAMP, LOOSE STATE TESTING FOR MASONRY UNITS, MORTAR, AND GROUT SHALL BE PERFORMED IN ACCORDANCE WITH CAN/CSA S304.1 VERTICAL CONTROL JOINTS SHALL BE INSTALLED IN ALL WALLS AT 7.6m (25'-0") O.C. MAXIMUM, UNLESS NOTED OTHERWISE. REINFORCING SHALL NOT CROSS A CONSTRUCTION JOINT. CAREFULLY LOCATE ALL CONTROL JOINTS. DO NOT INSTALL

VERTICAL CONTROL JOINTS THROUGH BOND BEAMS OR TENSION / COMPRESSION CHORDS; INSTEAD STOP THE CONTROL JOINT

- BELOW & ABOVE THE BOND BEAM AND RUN THE BOND BEAM REBAR THROUGH INSTALL SUITABLE DAMP COURSE FLASHING WITH WEEPHOLES AT 800mm (32") O.C. REPAIR ALL DAMAGE TO FLASHING. 10. REINFORCE ALL MASONRY WITH 3.66MM (9 ga.) "LADDER" TYPE WIRE REINFORCING AT 600mm (24") O.C. EXCEPT WHERE NOTED OTHERWISE. FULL OVERLAP AT ALL WALL INTERSECTIONS AND CORNERS. LAP STRAIGHT RUNS WITH 300mm (12")
- 11. BEAMS AND LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 200mm (8"). BUILD MASONRY TIGHT INTO WEBS AT THE
- 12. GROUT MASONRY SOLID BELOW ALL LINTEL ENDS AND POINT LOADS FOR ALL CORES BENEATH BEARING POINTS. FOR OPENINGS EXCEEDING 500mm (20"), IN THE FIRST FULL HEIGHT CORE ADJACENT TO ALL BEARING POINTS, INSTALL 1-15M
- 13. FILLING OF BLOCK UNITS WITH MORTAR INSTEAD OF GROUT IS <u>NOT</u> ACCEPTABLE.

 14. WHERE MASONRY WALLS ARE NOTED AS BEING REINFORCED WITH VERTICAL BARS, MINIMUM LAP LENGTHS SHALL BE PROVIDED, AND THE CORES CONTAINING THE VERTICAL BARS SHALL BE FILLED WITH GROUT.

 15. WHERE NOTE IS MADE TO FILL MASONRY SOLID, ALL CORES SHALL BE FILLED SOLID FROM THE BEARING POINT DOWN TO THE FOOTINGS WITH CROIL 16. WHERE ROOF TRUSSES OR OPEN WEB STEEL JOISTS BEAR ON UNREINFORCED MASONRY WALLS, INSTALL 1800mm (72") LONG
- UPLIFT ANCHORS IN THE WALL AT 1200mm (48") O.C. OR DIRECTLY BELOW EACH BEARING PLATE. ALL BEARING PLATES SHALL HAVE A 15M, 600 LONG (24") WELDABLE STRAIGHT REBAR DOWEL. 17. WHERE MASONRY BEARS ON STEEL BEAMS, WELD 15M x 300mm (12") LONG WELDABLE REBAR DOWELS AT 1200mm (48")
- 18. ALL MASONRY INSTALLED ABOVE ROOF DECK ELEVATION OR BELOW GRADE SHALL BE GROUTED 100% SOLID. PROVIDE BRACING AT MAX. 2000mm (6'-8") o.c. FOR BOTH SIDES OF THE TOP OF ALL NON-LOAD BEARING MASONRY WALLS. 20. USE RUNNING BOND BLOCK CONSTRUCTION. KEY ALL MASONRY JOINTS AT WALL CORNERS AND INTERSECTIONS. RAKE BACK
- WALL CONSTRUCTION WHEN TURNING WALL CORNERS. PROVIDE 38mm x 4.8mm (1 1/2" x 3/16") MASONRY STRAP AT EVERY SECOND COURSE TYING BLOCK WALLS TO ADJOINING CONCRETE WALLS AND STRUCTURAL STEEL.
- 21. MINIMUM REBAR TENSION LAP LENGTHS (DEFORMED, NON COATED BARS) SHALL BE: A) 450 mm (18") FOR 10M BARS 650 mm (26") FOR 15M BARS
- 850 mm (34") FOR 20M BARS 1350 mm (54") FOR 25M BARS
- 22. SEE ARCHITECTURAL DRAWINGS FOR FIRE RESISTANCE RATINGS (FRR). 190mm (8") BLOCK REQUIRING A 2 HR FRR SHALL



 BARS SPLICED AT POUR HEIGHT WALL BUILT FULL HEIGHT BARS INSTALLED FULL LENGTH GROUT LIFTS EVERY 2000mm (6'-6") IF WALL HEIGHT EXCEEDS 3000mm (10'-0")

GROUT SHALL BE CONSOLIDATED BY PUDDLING OR VIBRATING DURING

MASONRY WALL GROUTING TECHNIQUES

- CONTRACTOR SHALL CONSTRUCT ALL REINFORCED AND GROUTED WALL SYSTEMS IN ACCORDANCE TO ONE OF THE TWO GROUTING METHODS IDENTIFIED ABOVE (ref. 1). A 3RD OPTION IS PERMITTED IF THE WALL IS CONSTRUCTED IN ACCORDANCE TO MSJC (2005) (ref. 3) OR CONSTRUCTED WITH THE USE OF DEMONSTRATION PANELS IN ACCORDANCE WITH NCMA TEK 3-2A. IF THE 3RD OPTION IS PREFERRED BY THE CONTRACTOR, INFORM PROJECT ENGINEER PRIOR TO CONSTRUCTION AND A ENGINEERS
- SIGN-OFF WILL BE REQUIRED ON THE CONSTRUCTED DEMONSTRATION PIECE. MASONRY SHALL NOT BE CARRIED UP TO A HEIGHT GREATER THAN THAT REQUIRED TO ACCOMODATE THE GROUT POUR (ref. 2). THE MASONRY SHALL BE SUFFICIENTLY CURED TO PREVENT BLOWOUTS OF THE MORTAR JOINTS FROM CONSOLIDATION METHODS OR HYDROSTATIC PRESSURE OF THE GROUT (ref.2).
- 1. AT EACH LOCATION, THE GROUT POUR SHALL BE COMPLETED WITHIN 2 HOURS OF THE START OF THE POUR (Ref.2). MASONRY CONTRACTOR SHALL CONTACT TACOMA ENGINEERS (519-763-2000) TO COORDINATE A START-UP MEETING OR SITE REVIEW WITH THE MASON, GENERAL CONTRACTOR AND TACOMA REP. TO DISCUSS GROUTING TECHNIQUES & PROJECT EXPECTATIONS. THIS MEETING SHALL TAKE PLACE PRIOR TO ANY WALLS BEING GROUTED.

- GROUT LIFT THE AMOUNT OF GROUT PLACED IN A SINGLE CONTINUOUS OPERATION GROUT POUR THE ENTIRE HEIGHT OF MASONRY TO BE GROUTED PRIOR TO THE CONSTRUCTION OF ADDITIONAL MASONRY. A
- POUR MAY BE COMPRISED OF ONE LIFT OR A NUMBER OF SUCCESSIVELY PLACED GROUT LIFTS. CLEANOUTS OPENINGS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN THE GROUT POUR EXCEEDS 1500mm (5'-0").
 - CONSTRUCT CLEANOUTS SO THAT THE SPACE TO BE GROUTED CAN BE CLEANED AND INSPECTED. IN SOLID GROUTED MASONRY SPACE CLEANOUTS HORIZONTALLY AT A MIN. OF 32" (815mm) OC. CONSTRUCT CLEANOUTS WITH AN OPENING OF SUFFICIENT SIZE TO PERMIT REMOVAL OF DEBRIS. THE MINIMUM OPENING DIMENSION SHALL BE 3" (75mm)
- AFTER TYING BAR, CLEANED AND INSPECTED, CLOSE CLEANOUTS WITH CLOSURES BRACED OR SCREWED TO RESIST GROUT PRESSURE. STANDARD GROUT

FINE (GROUT SPACES 50mm OR LESS) MIXTURES: 1 PART PORTLAND CEMENT 3 PARTS SAND COARSE (LARGER GROUT SPACES) 1 PART PORTLAND CEMENT 3 PARTS SAND

NOTES:
- WATER IS ADDED TO THE ABOVE MIXTURES TO ACHIEVE A SLUMP OF 8" (200mm) - 10" (250mm) - ALTERNATE MIXTURE DESIGNS WILL BE ACCEPTED PROVIDED THEY MEET THE STRENGTH AND SLUMP REQUIREMENTS - MORTAR / MASONRY CEMENT MAY NOT BE USED IN IN GROUT OR AS A SUBSTITUTE FOR GROUT

FINE GROUT - 10 Mpa (28 days) COMPRESSIVE COARSE GROUT - 12.5 Mpa (28 days) STRENGTH:

• 1 - 2 PARTS COARSE AGGREGATE

REFERENCES:

GROUTING CONCRETE MASONRY WALLS NCMA TEK 3-2A NATIONAL CONCRETE MASONRY ASSOCIATION 2005 2. MASONRY CONSTRUCTION FOR BUILDINGS, CAN/CSA-A371-04, CANADIAN STANDARDS ASSOCIATION. REAFFIRMED 2009 S. SPECIFICATION FOR MASONRY STRUCTURES, ACI 530.1-05/ASCE 6-05/TMS 602-05, REPORTED BY THE MASONRY STANDARDS JOINT COMMITTEE, 2005

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL ELEMENTS ARE DESIGNED IN ACCORDANCE WITH CAN/CSA-S16. SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY THE PROJECT ENGINEER. STANDARD CONNECTIONS SHALL CONFORM TO THE HANDBOOK OF STEEL CONSTRUCTION. NON-STANDARD CONNECTIONS (INCLUDING MOMENT CONNECTIONS) SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO. STRUCTURAL STEEL BEAMS AND COLUMNS SHALL CONFORM TO ASTM A992/992M GRADE 50 (Fy = 345 MPa) UNLESS NOTED. STRUCTURAL STEEL CHANNELS AND ANGLES SHALL CONFORM TO CAN/CSA G40.21 GRADE 300W UNLESS NOTED.
- ALL H.S.S. SHALL CONFORM TO CAN/CSA G40.21 GRADE 350W (CLASS C) UNLESS NOTED. ALL STEEL PLATE TO BE A36 (250W MPa) MATERIAL (MINIMUM) UNLESS NOTED. WELDING SHALL CONFORM TO CSA W47.1 AND CSA W59, BY THE CANADIAN WELDING BUREAU. ALL WELDING SHALL B COMPLETED BY CWB CERTIFIED WELDERS. THIRD PARTY WELDING INSPECTION SHALL BE PERFORMED BY FIRMS CERTIFIED TO
- BOLTED CONNECTIONS SHALL BE MADE USING GRADE A325 BOLTS, UNLESS NOTED OTHERWISE. . ANCHOR RODS SHALL CONFORM TO ASTM F1554 (FORMERLY ASTM A307). MATERIAL SHALL BE MINIMUM GRADE 36 (Fu=414 MPa) (FORMERLY ASTM A307 GRADE C), OR CSA G40.21 300W (Fu=450 MPa). STRÚCŤURAL STEEL SHALL BE TESTED BY AN INDEPENDENT C.S.A. CERTIFIED TESTING COMPANY FOR ERECTION TOLERANCES,
- PLUMBNESS, ALIGNMENT, CONNECTIONS, ELEVATION, MATERIAL, AND WORKMANSHIP. CONTRACTOR TO PROVIDE COPIES OF TESTING REPORTS TO TACOMA ENGINEERS. GALVANIZING FOR METALS SHALL CONFORM TO CSA-G164 UNLESS NOTED. TOUCH-UP ON SITE BY GRINDING THE SURFACE TO BRIGHT METAL AND APPLYING ZINC RICH PAINT CONFORMING TO CAN/CGSB-1.181 (OR ASTM A780).
- 13. COLUMN BEARING GROUT SHALL BE 35 MPa (MINIMUM), NON-SHRINK, AND 38mm (1-1/2") THICK (MINIMUM). 14. ALL STRUCTURAL STEEL SHALL BE NEW MATERIAL UNLÉSS APPROVED BY TACOMA ENGINÉERS.
 15. ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE COAT OF APPROVED SHOP PRIMER, TOUCHED UP AS REQUIRED
- ON SITE, EXCEPT THAT STEEL WHICH IS TO RECEIVE SPRAY-ON FIREPROOFING SHALL NOT BE PRIMED. STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED WITHOUT THE APPROVAL OF THE ENGINEER. CO-ORDINATE WITH MECHANICAL, ELECTRICAL AND ALL OTHER SUBTRADES WHOSE WORK AFFECTS THE DETAILING, FABRICATION AND ERECTION OF THE STRUCTURAL STEEL.
- 18. DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT ENGINEERS APPROVAL. 19. EXTERIOR STRUCTURAL STEEL: • SHALL BE PROTECTED FROM CORROSION BY {HOT DIP GALVANIZING} {PRIMING + PAINTING WITH TWO COATS OF SUITABLE EXTERIOR GRADE PAINT { PRIMING + PAINTING WITH EPOXY BASED EXTERIOR GRADE PAINT } <PICK ONE>
- HSS COLUMNS SHALL HAVE DRAINAGE HOLES AT THE BASE (13mm (1/2") DIAM, MAX. 2" UP FROM BASE) 21. WHERE MASONRY BEARS ON STEEL BEAMS, WELD 15M x 300mm (12") LONG WELDABLE REBAR DOWELS AT 1200mm (48") IF HOLES IN BASE PLATES ARE OVERSIZED TO SUIT SITE CONDITIONS, NOTIFY TACOMA ENGINEERS AND SUPPLY AND INSTALL
- PLATE WASHERS TO COVER THE HOLE.

 23. DESIGN STEEL CONNECTIONS TO THE MAXIMUM UDL LOADS IN THE STEEL HANDBOOK BEAM TABLES, PROVIDED NO POINT LOADS ACT ON THE BEAM AND WHEN SHEARS ARE NOT INDICATED. CONNECTIONS SHALL BE CONCENTRIC AND SHALL NOT INTRODUCE ECCENTRICITY INTO ANY ELEMENTS, INCLUDING BEAMS INTO
- WHICH BEAMS FRAME.

 25. HEADED STUDS (EG. FOR CAST-IN PLATES) SHALL BE IN CONFORMANCE WITH W59. USE TYPE B FOR COMPOSITE STEEL

- 1. ROOF DECK SHALL BE 38mm HIGH, 0.76mm (0.030") (22 ga.) THICK LZC, WITH FLUTES AT 150mm (6") 0.C., CONTINUOUS WELDING OF STEEL DECK SHALL BE DONE BY COMPANIES CERTIFIED BY THE CANADIAN WELDING BUREAU (CWB) UNDER CSA W47.1. WELDERS SHALL BE CERTIFIED BY THE CWB FOR DECK WELDING. DECK FASTENING SHALL BE AS SHOWN ON PLANS OR DRAWINGS BUT AT A MINIMUM: WELD ROOF DECK TO ALL SUPPORTING MEMBERS WITH 20mm (3/4") PUDDLE WELDS AT 300mm (12") O.C. (INTERIOR) AND 150mm (6") O.C. (PERIMETER).
- BUTTON PUNCH ALL SEAMS AT 600mm (24") O.C END LAPS SHALL BE MINIMUM 50mm (2") AND SHALL BE FORMED OVER SUPPORTS.
- WHERE DECK IS WELDED IN PLACE, THE STEEL DECK SHALL BE INSPECTED AND ALL TOPSIDE AREAS WHERE THE METALLIC COATING HAS BEEN BURNED BY WELDING SHALL BE COVERED BY A ZINC RICH PAINT CONFORMING TO CAN/CGSB-1.181 (OR ASTM A780). NO IRON OXIDE PAINT ACCEPTED. 6. OPENINGS IN DECK OVER 150mm (6") x 150mm (6") SHALL BE FRAMED WITH L50x50x6 (L2"X2"X0.25") ANGLE ON EACH SIDE, PERPENDICULAR TO THE FLUTES. THE ANGLE SHALL BE WELDED TO AT LEAST TWO FLUTES ON EACH SIDE OF THE

STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS, WITH

- FOR OPENINGS OVER 300mm (12"), PROVIDE C100x8 (C4x5.4) H-FRAME TO FRAME THE OPENING PROVIDE C100x8 (C4X5.4) H-FRAMES TO PROVIDE VERTICAL SUPPORT BELOW ALL ROOF TOP UNIT EDGES STEEL DECK SHALL BE COLD FORMED SHEET STEEL WITH MINIMUM Fy = 230 MPa, CONFORMING TO ASTM 653/A653M -
- LZC COATING [ASTM A653M ZF75 / ASTM A 653M A25]. 10. DESIGN, FABRICATION AND ERECTION OF DECK TO CSSBI 10M (CSSBI 12M FOR COMPOSITE DECK). 11. PROVIDE 1.22mm x 200mm (18 ga. x 8") CONTINUOUS PLATE OVER THE DECK TO DECK JOINT WHERE METAL DECK CHANGES ORIENTATION.

WOOD CONSTRUCTION

- 1. WOOD FRAMING DESIGN AND CONSTRUCTION SHALL CONFORM TO CAN/CSA-086 "ENGINEERING DESIGN IN WOOD". LUMBER SHALL BE SPE No. 1/2 OR BETTER UNLESS NOTED OTHERWISE. MOISTURE CONTENT SHALL BE 19% OR LES LUMBER SHALL NOT BE NOTCHED OR DRILLED IN THE FIELD WITHOUT PERMISSION OF TACOMA ENGINEERS. ENGINEERED LUMBER (TJI, LVL) MAY BE DRILLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND DETAILS. ROOF SHEATHING SHALL BE 12.5mm (1/2") PLYWOOD CONFORMING TO CSA 0151 "CANADIAN SOFTWOOD PLYWOOD", U.N.O. WALL SHEATHING SHALL BE 9.5mm (3/8") PLYWOOD TO CSA 0151 "CANADIAN SOFTWOOD PLYWOOD" OR 11mm (7/16") OSB
- FLOOR SHEATHING SHALL BE 15.5mm (5/8") T&G PLYWOOD TO CSA 0151 "CANADIAN SOFTWOOD PLYWOOD". SUBFLOOR IS TO BE GLUED AND NAILED / SCREWED SECURELY TO EVERY SUPPORTING MEMBER. BOLTED CONNECTIONS SHALL BE MADE USING GRADE A307 BOLTS, UNLESS NOTED OTHERWISE.
 WOOD IS NOT PERMITTED TO BEAR DIRECTLY ON MASONRY OR CONCRETE WITHOUT PROTECTION. PROVIDE EITHER PRESSURE
- TREATED LUMBER, SUITABLE WOOD PRESERVATIVE OR 6 MIL (0.152mm) POLYETHYLENE SHEET. SOLID HORIZONTAL BRIDGING SHALL BE PROVIDED AT 1200mm (4'-0") O.C. IN THE FIRST TWO JOIST SPACES ADJACENT TO THE EXTERIOR WALLS. BRIDGING SHALL BE ATTACHED TO THE EXTERIOR WALL TO PROVIDE LATERAL STABILITY. 11. PROVIDE 38mm x 38mm (2X2) DIAGONAL CROSS BRIDGING OR SOLID BLOCKING AT MAXIMUM 2.1m (82") O.C. FOR ALL SAWN

TO CSA 0.325 "CONSTRUCTION SHEATHING" OR CSA 0.437.0 "OSR AND WAFERBOARD" II.N.O.

- 12. ALL NAILS USED SHALL CONFORM TO STEEL WIRE NAILS AND SPIKES AS DEFINED IN CSA STANDARD B111 "WIRE NAILS, SPIKES AND STAPLES" UNLESS NOTED OTHERWISE. 13. LATERALLY SUPPORT ALL STEEL BEAMS BY PRE-DRILLING FLANGES FOR 13mm (1/2") BOLTED ATTACHMENTS OF WOOD NAILERS WITH 15mm (9/16") HOLES STAGGERED AT 600mm (24") O.C. WHEN TOP MOUNTED HANGERS ARE USED, WOOD
- NAILERS ARE TO MATCH THE WIDTH OF THE STEEL BEAM TOP FLANGE AND NOT OVERHANG BY MORE THAN 6mm (1/4"). USE JOIST HANGERS WHERE FRAMING MEMBERS CONNECT INTO THE SIDES OF SUPPORTING MEMBERS. 15. ALL STEEL CONNECTORS (UPLIFT CLIPS, BRACKETS, JOIST HANGERS etc.) SHALL BE SIMPSON STRONG TIE CONNECTORS
- 16. ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD ARE TO BE HOT DIP GALVANIZED (TO CSA-G164) OR STAINLESS STEEL. FOR SOLID AND BUILT UP MEMBERS (TRUSSES, BEAMS, LINTELS) PROVIDE A BUILT UP POST WITH AN EQUAL OR GREATER
- THICKNESS UNLESS NOTED OTHERWISE. ALL BUILT UP POSTS TO BE CONTINUOUS (INCLUDING TRANSFER BLOCKING AT FLOORS) DOWN TO THE FOUNDATIONS. 18. ALL BUILT UP MEMBERS TO BE FASTENED TOGETHER WITH TWO 75mm (3") SPIRAL NAILS AT 300mm (12") O.C. FOR EVERY PLY UNLESS NOTED OTHERWISE.
- ALL PRE-ENGINEERED STEEL CONNECTORS (EG. SIMPSON STRONG TIE) ARE TO HAVE THE CORRECT NUMBER AND SIZE OF FASTENERS, AS PER THE MANUFACTURER'S PRODUCT CATALOGUE.

 20. PROVIDE SOLID BLOCKING OR MECHANICAL CONNECTIONS AT THE TOP AND BOTTOMS OF BEAMS AT BEARING POINTS TO
- 21. PROVIDE SOLID BLOCKING AROUND ALL EDGES OF FLOOR AND ROOF OPENINGS, AND BELOW ALL RTU EDGES.

<u>STRUCTURAL COMPOSITE LUMBER BEAMS — LSL, LVL AND PSL</u>

- 1. LSL = WEYERHAUSER 1.55E TIMBERSTRAND LSL, WITH MINIMUM VALUES: $E = 1.55 \times 10^{\circ}6$, fb = 4,296 psi, fv = 575 psi, G = 96,875 psi
- APPROVED EQUIVALENTS: NONE
 LVL = WEYERHAUSER 2.0E MICROLLAM LVL, WITH MINIMUM VALUES: • E = 2.0 x 10⁶, fb = 4,805 psi, fv = 530 psi, G = 125,000 psi, fc_perp = 1365 psi APPROVED EQUIVALENTS: WEST FRASER LVL 3100 Fb 2.0E; LP SOLID START LVL 2900 Fb 2.0E; INTERNATIONAL BEAMS LVL 2.0E; BOISE CASCADE VERSA-LAM 3100 2.0E; BOISE CASCADE GP-LVL 2.0E (FORMERLY GP LAM LVL 2.0E)
- PSL = WEYERHAUSER 2.0E PARALLAM PSL, WITH MINIMUM VALUES: $E = 2.0 \times 10^{\circ}6$, fb = 5,360 psi, fv = 540 psi, G = 125,000 psi APPROVED EQUIVALENTS: WEST FRASER LVL 3100 Fb 2.0E; INTERNATIONAL BEAMS LVL 2.0E; BOISE CASCADE
- VERSA-LAM 3100 2.0E; BOISE CASCADE GP-LVL 2.0E (FORMERLY GP LAM LVL 2.0E) DO NOT DRILL HOLES THROUGH LSL, LVL OR PSL BEAMS WITHOUT THE APPROVAL OF TACOMA ENGINEERS. FOLLOW THE MANUFACTURER'S GUIDE FOR ALL INSTALLATIONS. TOP-LOADED BEAMS: FASTEN PLIES TOGETHER AS PER MANUFACTURER'S INSTRUCTIONS UNO.

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SPADINA MUSEUM GARAGE **REHABILITATION** 285 SPADINA ROAD TORONTO, ON

STRUCTURAL

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CITY OF TORONTO

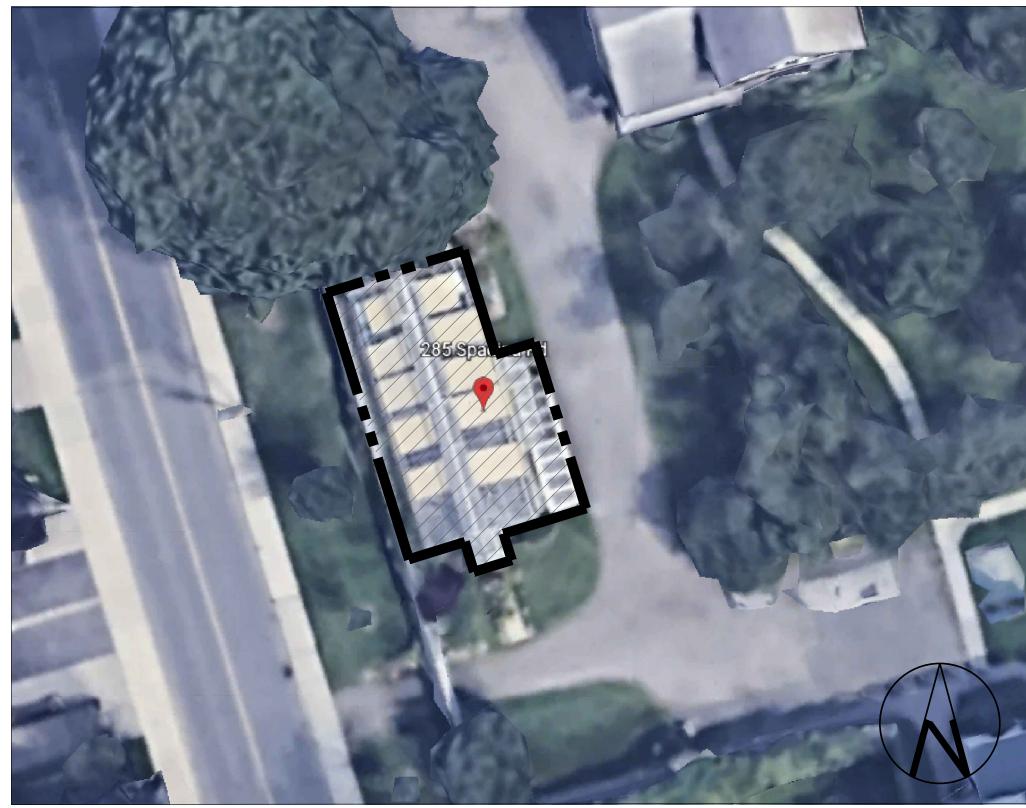
SPADINA MUSEUM GARAGE REHABILITATION AND

SITE ACCESSIBILITY

CLIENT PROJECT #:A22048 M4S PROJECT #:22626

285 SPADINA ROAD TORONTO, ON M5R 2V5

CONTENT	ISSUED FOR	DATE
MECHANICAL DRAWINGS	ISSUED FOR 95% REVIEW	2023/07/12
ELECTRICAL DRAWINGS	ISSUED FOR 95% REVIEW	2023/07/12





	DRAWING LIST
DWG No.	DESCRIPTION
CP-000	COVER PAGE AND DRAWING LIST
M-100	GENERAL NOTES, LEGENDS AND SCHEDULES
M-101	SCHEDULES
M-200	BASEMENT- PLUMBING - DEMOLITION
M-201	BASEMENT - PLUMBING BELOW & ABOVE GRADE - MODIFICATION
M-202	GROUND FLOOR - PLUMBING - DEMOLITION AND MODIFICATION
M-203	SECOND FLOOR - PLUMBING - DEMOLITION AND MODIFICATION
M-300	BASEMENT - HVAC - DEMOLITION AND MODIFICATION
M-301	GROUND FLOOR - HVAC - DEMOLITION AND MODIFICATION
M-302	SECOND FLOOR - HVAC - DEMOLITION AND MODIFICATION
M-303	ATTIC - HVAC - MODIFICATION & BASEMENT MECHANICAL ROOM
M-500	BASEMENT - HYDRONICS - MODIFICATION
M-501	GROUND FLOOR - HYDRONICS - MODIFICATION
M-502	SECOND FLOOR - HYDRONICS - MODIFICATION
M-800	SCHEMATICS
1 1000	DETAILC

	DRAWING LIST
DWG NO.	DESCRIPTION
E-100	GENERAL NOTES, LEGENDS AND SCHEDULES
E-101	SITE PLAN - ELECTRICAL
E-200	BASEMENT - LIGHTING - DEMOLITION & MODIFICATION
E-201	GROUND FLOOR - LIGHTING - DEMOLITION & MODIFICATION
E-202	SECOND FLOOR - LIGHTING - DEMOLITION & MODIFICATION
E-300	BASEMENT - POWER & SYSTEMS - DEMOLITION & MODIFICATION
E-301	GROUND FLOOR - POWER & SYSTEMS - DEMOLITION & MODIFICATION
E-302	SECOND FLOOR - POWER & SYSTEM - DEMOLITION & MODIFICATION
E-306	ATTIC - POWER & SYSTEMS - MODIFICATION
E-800	LUMINAIRE SCHEDULE
E-801	PANEL SCHEDULES
E-900	SINGLE LINE DIAGRAM
E-1000	DETAILS
E-1001	DETAILS

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

4	2023/07/12	ISSUED	FOR	95%	REV	IEW
3	2023/06/02	ISSUED	FOR	50%	CD	REV
2	2023/04/26	ISSUED	FOR	100%	S DD	RE
1	2023/04/10	ISSUED	FOR	50%	REV	IEW
No.	Date	Action				
			CITE			DC:
	SIE	620 WILSON PHONE: 416	SITE N AVE., S -229-6574	ENGI SUITE 320,	TORONT FAX:	1 HS 0, 0 416-22
	Y ₁ Sin	620 WILSON PHONE: 416	SITE N AVE., S -229-6574	ENGI GUITE 320,	TORONT FAX:	1 HS 10, 0 416-22
	V ₁ Sili	MIA 1 4 620 WILSON PHONE: 416	SITE N AVE., S -229-6574	ENGI	TORONT FAX:	HS 0, 0
	SIII	MIA 1 4 620 WILSON PHONE: 416	SITE N AVE., S -229-6574	ENGI	TORONT FAX:	9, 0 416-22

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

roject No. **22626**

2023/01/25

CP-000

Client Approval

Drawing No.

COVER PAGE AND DRAWING

Drawing title

Drawn by:

Drawing file:

Revision No.

22626-M

GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DRAWINGS.

2. GENERAL SCOPE OF WORK

- 2.1. FURNISH ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS AS WELL AS SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, TESTED AND IN WORKING ORDER, AS SHOWN ON THE
- 2.2. THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK.
- 2.3. ALL WORK SHALL BE FULLY TESTED, COMMISSIONED AND IN GOOD WORKING ORDER AT TIME OF HAND-OVER TO OWNER.
- 2.4. MAKE GOOD ANY DAMAGES TO EXISTING EQUIPMENT AND/OR SYSTEM(S). COORDINATE WORK AND WORKING HOURS WITH THE OWNER AND OTHER TRADES TO MINIMIZE DISRUPTION.
- 2.5. ALL WORK SHALL BE COMPLETED ONCE ADEQUATE PROTECTION OF ADJACENT SPACES HAS BEEN INSTALLED. CONTRACTOR TO ENSURE MINIMAL DUST CREATION DURING WORK.
- 2.6. PROVIDE CAULKING AND FIRESTOPPING FOR ALL MECHANICAL SERVICES PASSING THROUGH FIRE SEPARATIONS AS INDICATED ON THE ARCHITECTURAL LAYOUT.
- 2.7. FOR EQUIPMENT PERFORMANCE AND CONSTRUCTION. REFER TO SCHEDULES AND SPECIFICATIONS. 2.8. FOR EQUIPMENT INSTALLATION. REFER TO DETAILS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR MORE INFORMATION.

3. DRAWINGS

- 3.1. DRAWINGS SHOW GENERAL INTENT OF THE WORK AND PROPOSED ROUTING ONLY. 3.2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASURE
- BEFORE PROCEEDING WITH THE WORK. 3.3. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES AND INFORMING THE ENGINEER PRIOR TO STARTING ANY WORK.
- 3.4. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK BEGINS AND BEFORE ANY MATERIAL/EQUIPMENT IS ORDERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS RESULTING FROM ANY REWORK CAUSED BY NOT FOLLOWING THIS PROCESS.

- 4.1. EXAMINE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN. IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED THESE MUST BE INDICATED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 4.2. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES AND SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE CONSTRUCTION
- 4.3. ALL NOISY WORK SHALL BE PERFORMED DURING NORMAL BUSINESS HOURS: BETWEEN 6PM AND
- 7AM, MONDAY THROUGH FRIDAY; AND ON WEEKENDS, FRIDAY 6PM THROUGH MONDAY 7AM. 4.4. COORDINATE SITE ACCESS AND DELIVERIES WITH LANDLORD AND/OR GENERAL CONTRACTOR. 4.5. ALL EXISTING SERVICES THAT ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING

GENERAL NOTES:

DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS.

CLEANING

5.1. CLEAN PREMISES DAILY AT THE END OF EACH WORK DAY.

5.2. DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY. 5.3. COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE ONCE WORK IS COMPLETE.

5.4. ALL MATERIALS TO BE DISPOSED OF CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE

6. EXISTING EQUIPMENT AND SYSTEMS

- 6.1. DISCONNECT, RECONNECT OR RELOCATE EXISTING EQUIPMENT OR SERVICES WHERE SHOWN OR AS REQUIRED TO PERMIT NEW WORK TO BE INSTALLED WITHOUT INTERFERENCES. ENSURE THAT
- REQUIRED SERVICES ARE MAINTAINED. 6.2. COORDINATE WITH THE OWNER BEFORE INTERRUPTING ANY ESSENTIAL SERVICES. 6.3. ROUTING OF NEW SERVICES MAY BE ADJUSTED TO ACCOMMODATE EXISTING SERVICES AND CONDITIONS PROVIDED THAT THE INTENT OF THE DRAWINGS IS MET AND THE ORIGINAL
- 6.4. PROVIDE DRAWINGS OF PROPOSED REVISIONS TO ENGINEER FOR APPROVAL BEFORE BEGINNING
- ANY WORK. INCORPORATE ALL CHANGES IN AS BUILT DRAWINGS. COORDINATE ALL ROUTING CHANGES WITH OTHER TRADES THAT MAY BE AFFECTED.
- 6.6. ENGINEER TO BE ADVISED PRIOR TO CHANGES WHERE CHANGES COULD BE SIGNIFICANT. THE CONTRACTOR IS TO TAKE EXTRA CARE DURING THIS INSTALLATION NOT TO DISTURB THE OPERATIONS OF THE COMPLEX. IT IS CRITICAL THAT THERE WILL BE NO UNSCHEDULED SHUTDOWNS OR INTERRUPTIONS OF ANY OPERATIONS.
- 6.8. ALL ASSOCIATED COSTS OF THESE ITEMS LISTED ABOVE WILL THE RESPONSIBILITY OF THE CONTRACTOR.

7. OPEN FLAMES AND WELDING 7.1. NO OPEN FLAMES OR WELDING IS PERMITTED WITHIN THE BUILDING WITHOUT WRITTEN

- PERMISSION BY THE OWNER AND/OR THE ENGINEER.
- 7.2. HOT WORK PERMIT MUST BE VISIBLE AT ALL TIMES. 7.3. ADEQUATE NUMBER OF FIRE EXTINGUISHERS MUST BE PROVIDED DURING THE OPEN FLAME

					ENE	RGY RECOV	/ERY VENT	ILATOR SC	HEDULE						
					F	AN				TERMPERA	ATURE (°F)				
TAG	MANUFACTURER	MODEL	SYSTEM	AIR FLOW		МОТОІ	R (HP)	FILTER	WIN	NTER	SUN	MER	WEIGHT	NOTES	
TAG MANOTACTURE	MANOTACTORER	110022	SISILII	(CFM)	E.S.P (IN.)	kW (POWER INPUT)	V/φ/Hz		TE	TL	TE	TL	(LB)		
ERV-1	OVVCEN 9	H05	SUPPLY AIR	340	0.5	0.5	208/1/60	MERV-13	0	51.8	90	79.1	436	FOR INDOOR USE, TO BE COMPLETE	
EKV-1	/-1 OXYGEN 8 H05	поэ	EXHAUST AIR	340	0.5	0.5	208/1/60	MERV-13	72	20.2	75	85.9	436	WITH ELECTRIC PREHEAT COIL	
ERV-2	ALDES	E120 HD	SUPPLY AIR	100	0.75	-	120/1/60	MERV-13					32	FOR INDOOR USE	
EKV-Z	ALDES	.DES E130-HR	EXHAUST AIR	100	0.75	-	120/1/60	MERV-13					32	FOR INDOOR USE	
EDV 2	ERV-3 OXYGEN 8	SALDA 4X P	SUPPLY AIR	280	1.1	0.17	208/1/60	MERV-13	0	49.3	90	79.6	436	FOR INDOOR USE, TO BE COMPLETE	
EKV-3		OXYGEN 8	OXYGEN 8	S300	EXHAUST AIR	280	1.1	0.17	208/1/60	MERV-13	72	22.7	75	85.4	430

						BOILER SCHE	DULE						
TAC			MODEL	CAPACITY		FLUID TVDE	MAX WATER	TVDE	WEIGHT	DIMENSION	VOLTAGE	AMDC	NOTEC
TAG	LOCATION	MANUFACTURER	MODEL	RATED kW	OUTPUT (MBH)	FLUID TYPE	FLOW (gpm)	TYPE	(lbs)	LXWXH(in)	(V/φ/Hz)	AMPS	NOTES
B-1	BASEMENT	PRECISION BOILERS	PCW1-020	20	68	WATER	230	ELECTRIC	600	30X20X52	208/3/60	56	
B-2	BASEMENT	PRECISION BOILERS	PCW1-030	30	102	WATER	230	ELECTRIC	600	30X20X52	208/3/60	84	
	EFERENCE NOTES: . ELECTRIC BOILER, TO BE C/W CONTROL PANEL												

SPLIT SYSTEM SCHEDULE

										-11 3131L	1 JCHLD							
					FA	AN	E	LECTRICAL			COOLING			HEATING		DIMENSIONS		
TAG	MANUFACTURER	MODEL	LOCATION	REFRIGERANT	AIR FLOW (CFM)	ESP (in.W.C.)	V/φ/Hz	MCA (A)	MOP (A)	TOTAL CAPACITY (MBH)	INDOOR DB/WB (°F)	OUTDOOR DB/WB (°F)	TOTAL CAPACITY (MBH)	INDOOR DB/WB (°F)	OUTDOOR DB/WB (°F)	(WXHXD) (in)	WEIGHT (lbs)	NOTES
CU-1	DAIKIN AC	RXTQ60TAVJUA	OUTSIDE	R410A	-	-	208-230/1/60	29.1	35	64	80 / 67	95 / 75	-	-	-	35X53X12	225	
CU-2	DAIKIN AC	RXL12QMVJU9A	OUTSIDE	R410A	-	-	208-230/1/60	13	-		80 / 67	95 / 75	-	-	-	27x22x11	70	- CONNECTS TO FC-7
FC-1	DAIKIN AC	FXSQ36TAVJU	ELEVATOR LOBBY	R410A	1130	0.6	208-230/1/60	2.5	15	36	80 / 67	95 / 75	-	-	-	10X55X32	101	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25.
FC-2	DAIKIN AC	FXAQ07PVJU	KITCHEN	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	-	-	-	12X32X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.
FC-3	DAIKIN AC	FXAQ07PVJU	BOARD ROOM	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	-	-	-	12X32X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.
FC-4	DAIKIN AC	FXAQ07PVJU	GARAGE	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	-	-	-	12X32X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.
FC-5	DAIKIN AC	FXAQ07PVJU	GARAGE	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	-	-	-	12X32X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.
FC-6	DAIKIN AC	FXAQ07PVJU	OFFICE	R410A	260	-	208-230/1/60	0.4	-	7.5	80 / 67	95 / 75	-	-	-	12X32X10	26	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT.
FC-7	DAIKIN AC	FTX12NMVJUA	ELEVATOR MACHINE ROOM	R410A	434	-	208-230/1/60	-	-	10.6	80 / 67	95 / 75	13.4	70 / 60	47 / 43	30X11X9	18	- INCLUDE PROGRAMMABLE THERMOSTAT TO BE INSTALLED BY DIV.25. WALL MOUNTED UNIT. CONNECTS TO CU-2

SPECIFICATION FOR REFERENCE ONLY, SUITABLE (APPROVED) UNIT WILL BE ACCEPTED, ACCEPTABLE ALTERNATE MANUFACTURERS MITSUBISH, LG.

SYSTEM TO BE C/W REFRIGERANT LINE SET, INSULATION AND ALL ACCESSORIES REQUIRED FOR DISTRIBUTION. REFRIGERANT PIPES SHALL BE SIZED BY CERTIFIED REFRIGERANT TECHNICIAN IN ACCORDANCE WITH MANUFACTURER GUIDELINES;

CONDENSING UNIT (CU-1 & CU-2) TO BE PAD MOUNTED. MAINTAIN ALL REQUIRED CLEARANCES.

SPLIT SYSTEM SHALL BE C/W R-410A REFRIGERANT, ADJUSTABLE ESP, BUILT-IN HIGH PERFORMANCE DRAIN PUMP, REFRIGERANT PRE-CHARGE. INDOOR UNITS SHALL BE SUPPLIED WITH FACTORY BUILT IN FILTER SECTION, CONDENSATE PUMP, AND WIRELESS REMOTE.

CONDENSATE PUMP TO BE POWERED BY INDOOR UNITS.

					PUMP SCH	EDULE							
											МОТО	२	
TAG	SYSTEM	MANUFACTURER	MODEL	VFD	FLUID TYPE	WEIGHT (LBS)	FLOW (GPM)	HEAD (FT)	FLANGE (IN)	RPM	НР	VOLTAGE (V/φ/Hz)	NOTE
P-1	DHWR RECIRCULATION PUMP	BELL & GOSSETT	ECOCIRC 20-18	N	WATER	-	4	10	-	1725		208/3/60	- 1
P-2	HYDRONIC HEATING PUMP	BELL & GOSSETT	ECOCIRC 20-18	N	WATER	-	16	26	-	1725	1/4	115/1/60	
S-2	SUMP PIT PUMP	LIBERTY PUMPS	280 SERIES	N	WATER	30	-	-	-	3600	1/2	115/1/60	- 2

1. C/W ALL REQUIRED VALVES AND FITTINGS. PUMP SHALL BE APPROVED FOR POTABLE WATER.

2. SUMP PUMP TO BE EQUIPPED WITH FLOAT ALARM.

_														
	DOMESTIC HOT WATER TANK SCHEDULE													
	TAG	LOCATION	MANUFACTURER	MODEL	QUANTITY	DRY WEIGHT (lbs)	CAPACITY (gal)	INPUT (kW)	RECOVERY	ELECTRICAL	FLA (AMP)	HEIGHT (in)	DIAMETER (in)	NOTES
	HWT-1	BASEMENT	RHEEM	ELD66	1	170	65	12	32 GPH @ 100°F	208/1/60	19.2	59	23	ELECTRIC HOT WATER TANK

V	/ALVES & ACCESSORIES LEGEND
SYMBOL	DESCRIPTION
\bowtie	GATE VALVE
-151-	BALL VALVE
\bowtie	BALANCING VALVE
%	BUTTERFLY VALVE
ightharpoonup	CHECK VALVE
	BACK WATER PREVENTION VALVE ASSEMBLY
<u> </u>	Y-STRAINER
	GLOBE VALVE
\$	SOLENOID VALVE
FD	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
Y	P-TRAP
II	CLEANOUT
Ol	CLEANOUT - UPRIGHT
M	WATER METER
G	GAS METER
IŢI	PLUG VALVE COCK
•	BACKWATER VALVE
δ	HOSE BIB
	FLEX CONNECTION
	EXPANSION JOINT
Y	FUNNEL FLOOR DRAIN
₽ [™]	TEMPERATURE GAUGE
	PRESSURE REDUCING VALVE
×	PRESSURE RELIEF VALVE
	2-WAY CONTROL VALVE - DDC
	3-WAY CONTROL VALVE - DDC
M	3-WAY MIXING VALVE
T ₋	THERMOSTATIC MIXING VALVE
AAV X	AUTOMATIC AIR VENT
AV X	MANUAL AIR VENT
P	PRESSURE GAUGE

\	/ALVES & ACCESSORIES LEGEND			HVAC LEGEND		
	DESCRIPTION	SYM	BOL	DESCRIPTION		
	GATE VALVE					
	BALL VALVE			FLEX DUCT		
	BALANCING VALVE		$\overline{}$			
	BUTTERFLY VALVE			CONTROL WIRE		
	CHECK VALVE		<u> </u>	PIPE BREAK		
\triangleleft	BACK WATER PREVENTION VALVE ASSEMBLY			CAP		
	Y-STRAINER	-	◀	FLOW ARROW		
	GLOBE VALVE			THERMOSTAT		
	SOLENOID VALVE			AIR FLOW ARROW		
	FLOOR DRAIN			SUPPLY DUCT - UP		
	FUNNEL FLOOR DRAIN			SUPPLY DUCT - DOWN		
	P-TRAP			RETURN DUCT - UP		
	CLEANOUT	/	7	RETURN DUCT - DOWN		
	CLEANOUT - UPRIGHT			EVIJALICT DUCT. LID		
	WATER METER			EXHAUST DUCT - UP		
	GAS METER			EXHAUST DUCT - DOWN		
	PLUG VALVE COCK			FLEX DUCT CONNECTION		
	BACKWATER VALVE		>	DUCT REDUCER		
	HOSE BIB			BALANCING DAMPER		
_	FLEX CONNECTION		BDD	BACK DRAFT DAMPER		
		•		FIRE DAMPER		
	EXPANSION JOINT					
	FUNNEL FLOOR DRAIN			ABBREVIATIONS		
	TEMPERATURE GAUGE	ABB.		DESCRIPTION		
	PRESSURE REDUCING VALVE	ABV	AUTOMATIO	C BALANCING VALVE		
	PRESSURE RELIEF VALVE	AFF	ABOVE FIN	ISHED FLOOR		
		BAS		AUTOMATION SYSTEM		
	2-WAY CONTROL VALVE - DDC	BDD		AFT DAMPER		
	3-WAY CONTROL VALVE - DDC	BFP		DW PREVENTOR		
		CBV	ALANCING VALVE			
	3-WAY MIXING VALVE	CTE	CONNECT T	TO EXISTING		

CO CLEANOUT

DCW DOMESTIC COLD WATER DHW DOMESTIC HOT WATER

	PLUMBING LEGEND						
SYMBOL DESCRIPTION							
	DOMESTIC COLD WATER						
— – – — DOMESTIC HOT WATER							
	DOMESTIC HOT WATER RETURN						
—— SAN ——	SANITARY						
SAN	SANITARY - BELOW						
ST	STORM						
— – ST – —	STORM - BELOW						
	VENT						
FD	FLOOR DRAIN						
- Cr	P-TRAP						

G	SENERAL & ANNOTATION LEGEND
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
—	PIPE RISE
—G—	PIPE DROP
	PIPE TEE
<u> </u>	PIPE BREAK
<u> </u>	CAP
$-$ \vdash	UNION
$\dashv\vdash$	FLANGE CONNECTION
	PUMP
4	FLOW ARROW
\bowtie	GATE VALVE
XX-Y	EQUIPMENT TAG
X Y ZØ	AIR TERMINAL TAG X = TYPE: A, B, C, ETC. (REFER TO SPECIFICATIONS FOR MORE DETAIL) Y = AIR FLOW (CFM) Z = FLEX DUCT SIZE (in)
X@Y% SLOPE	PIPE SLOPE ARROW X = PIPE DIAMETER (in) Y = SLOPE %

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

DHW	DOMESTIC	HOT WATER			
DHWR	DOMESTIC	HOT WATER RETURN			
FD	FLOOR DRA	IN			
FF	FINISHED F	LOOR			
FFD	FUNNEL FLO	OOR DRAIN			
HUM	HUMIDIFIEF	R			
NO / NC	NORMALLY	OPEN / NORMALLY CLOSED			
SD	SCUPPER D	RAIN	4	2023/07/12	ISSUED FOR 95% REVIEW
SFI	SIGHT FLOV	V INDICATOR	 	0007/00/00	
TDV	TRIPLE DUT	Y VALVE	3	2023/06/02	ISSUED FOR 50% CD REVIEW
TYP	TYPICAL		2	2023/04/26	ISSUED FOR 100% DD REVIEW
VFD	VARIABLE F	REQUENCY DRIVE	1	2027/04/10	ICCUIED FOR FOW DEVIEW
				2023/04/10	ISSUED FOR 50% REVIEW
		PLUMBING LEGEND	No.	Date	Action
SYM	1BOL	DESCRIPTION			
		DOMESTIC COLD WATER			MAT 4SITE ENGINEERS LTD.
		DOMESTIC HOT WATER		V/ SHE	620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 123 PHONE: 416-229-6574 FAX: 416-229-4105
		DOMESTIC HOT WATER RETURN			PRIONE: 410-229-05/4 FAX: 410-229-4105
SA	AN —	SANITARY			

Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

Stamp

Drawing title GENERAL NOTES, LEGENDS AND SCHEDULES

)rientation

Scale: N.T.S.	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.
0	M-100

	EXHAUST FAN SCHEDULE											
					WEIGHT	FAN PERFORMANCE		DIMENSION	MOTOR			
TAG LOCA	LOCATION	MANUFACTURER	NUFACTURER MODEL Q	QTY	QTY (lbs)	FLOW (CFM)	ESP (in.W.C.)	WXHXD (in)	RPM	WATTS	VOLTAGE (V/φ/Hz)	REMARKS
DB-1	BASEMENT	CONTINENTAL FAN	DVK100B	1	8	140	0.2	9.5"Ø"x8.3"	2620	83.4	115/1/60	TO BE C/W CURRENT SENSOR (120 VAC AND LINT TRAP UPSTREAM OF THE BOOSTER FAN.

	DIFFUSER, GRILLE, REGISTER AND LOUVRE SCHEDULE								
TAG	MANUFACTURER	MODEL	SERVICE	MOUNTING	COLOUR	NOTES			
S-1	E.H. PRICE	520	S/A	SEE LAYOUT	WHITE	LOUVERED S/A GRILLE, DOUBLE DEFLECTION, 0° DEFLECTION, STEEL CONST. CORE BARS PARALLEL TO LONG DIM. POWDER COAT FIN.			
S-2	E.H. PRICE	SPD	S/A	DRYWALL	WHITE	12"x12" SQUARE PLAQUE DIFFUSER.			
S-3	E.H. PRICE	LBMH	S/A	SEE LAYOUT	WHITE	LINEAR BAR S/A GRILLE, 6" SIZE, 15A CORE, STEEL CONST. CORE BARS PARALLEL TO LONG DIM. POWDER COAT FIN.			
R-1	E.H. PRICE	530	R/A	DRYWALL	WHITE	LOUVERED R/A GRILLE, DOUBLE DEFLECTION, 45° DEFLECTION, 3/4" SPACING, STEEL CONST. CORE BARS PARALLEL TO LONG DIM. POWDER COAT FIN.			

			BASEBO	ARD HEATER SCHEDULE			
TAG	LOCATION	MODEL	CAPACITY (kW)	DIMENSION L X W X H (in)	VOLTAGE (V)	WEIGHT (lbs)	NOTES
BBH-1	SEE LAYOUT	ALUX112061	0.6	47-1/4 X 2-1/32 X 4-17/32	120	13.6	-1,2,3,4
BBH-2	SEE LAYOUT	ALUX109041	0.45	35-7/16 X 2-1/32 X 4-17/32	120	9.1	-1,2,3,4
BBH-3	SEE LAYOUT	ALUX115071	1.2	59-1/16 X 2-1/32 X 4-17/32	120	16.8	-1,2,3,4
BBH-3 SEE LAYOUT ALUX115071 1.2 59-1/16 X 2-1/32 X 4-17/32 120 16.8 -1,2,3,4 REFERENCE NOTES: 1. SELECTION BASED ON MANUFACTURER; 2. COMPLETE WITH WALL-MOUNT THERMOSTAT; 3. POWER REQUIREMENTS TO BE CONFIRMED WITH ELECTRICAL TRADE; 4. REFER TO ARCHITECTURAL DRAWINGS FOR COLOUR.							

FORCED FLOW HEATER SCHEDULE							
TAG	LOCATION	MODEL	CAPACITY (kW)	DIMENSION L X W X H (in)	VOLTAGE (V)	WEIGHT (lbs)	NOTES
FFH-1	SEE LAYOUT	CF1501C24	1.5	47-1/4 X 2-1/32 X 4-17/32	120	20	-1,2,3,4

2. COMPLETE WITH WALL-MOUNT THERMOSTAT FED BY 24V CONTROL WIRE;
3. POWER REQUIREMENTS TO BE CONFIRMED WITH ELECTRICAL TRADE;
4. REFER TO ARCHITECTURAL DRAWINGS FOR COLOUR.

	ELECTRIC DUCT HEATER SCHEDULE								
TAG	LOCATION	MODEL	CAPACITY (kW)	DIMENSION W X H X D (in)	ELECTRICAL (V/φ/Hz)	NOTES			
EDH-1	ATTIC SPACE	IDHC	0.8	-	208/1/60	- 1,2,3			
EDH-2	ATTIC SPACE	IDHC	19.5	-	208-240/1/60	- 1,2,4			
DEEEDENCE N	NOTES:					-			

REFERENCE NOTES:

1· COMPLETE WITH CONTROL WIRING AND INTERLOCK WITH THERMOSTAT.

2. SLIP IN HEATER C/W AIRFLOW SWITCH WIRED TO DISABLE ON NO AIR FLOW.

3. PRE-HEAT COIL, TO HAVE SEPARATE ELECTRICAL CONNECTION

	PLUMBING FIXTURE PIPE SIZES									
SERVICE	SK-1, SK-2, KS-1, KS-2	LAV-1, LAV-2, LAV-3	DW-1	WC-1, WC-2, WC-3	EW-1, EW-2, EW-3	WSH-1				
DCW (in)	Ø3/4	Ø3/4	-	Ø3/4	Ø3/4	Ø3/4				
DHW (in)	Ø3/4	Ø3/4	Ø3/4	-	-	Ø3/4				
SAN (in)	Ø1-1/2	Ø1-1/2	Ø1-1/2	Ø3	Ø2	Ø2				
VENT (in)	Ø1-1/4	Ø1-1/4	-	Ø1-1/2	Ø1-1/2	Ø1-1/2				

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4 2023/07/12 ISSUED FOR 95% REVIEW
3 2023/06/02 ISSUED FOR 50% CD REVIEW

2 2023/04/26 ISSUED FOR 100% DD REVIEW
1 2023/04/10 ISSUED FOR 50% REVIEW

No. Date Action

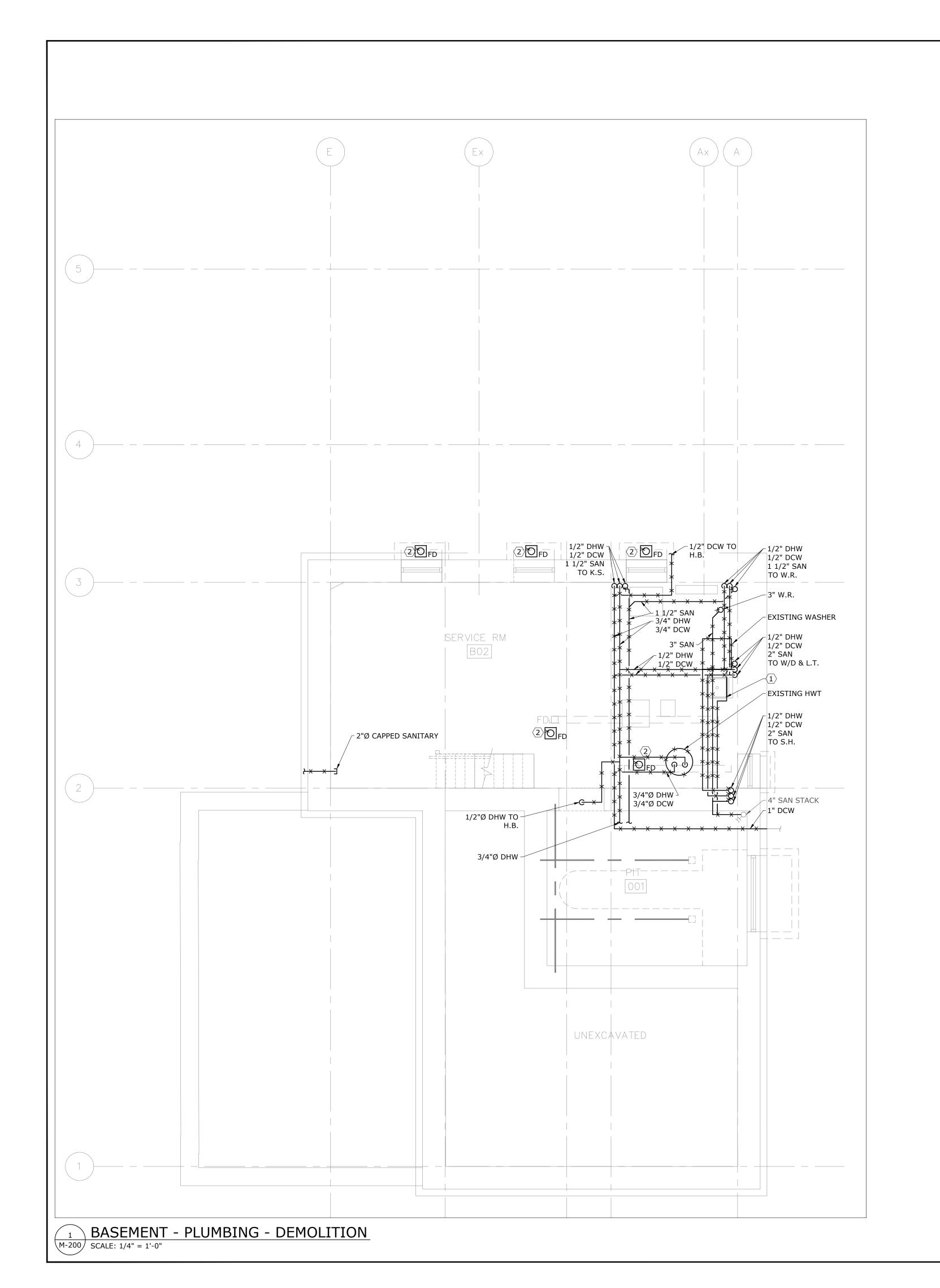
MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

Orientation Stamp
Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
SCHEDULES

Scale: N.T.S.	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626—M	Client Approval
Revision No.	Drawing No.
0	M - 101



DEMOLITION GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.
- 2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
- 3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
- 4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
- 5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
- 6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
- 7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH EXISTING.
- 8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.
- 9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
- 10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

REFERENCE NOTES:

- $\overline{\langle 1 \rangle}$ EXISTING LAUNDRY SINK TO BE REUSED, FAUCET TO BE DEMOLISHED AND REMOVED. DCW,
- DHW AND SANITARY PIPING TO BE DEMOLISHED AND REMOVED BACK TO SOURCE AND CAPPED. $\langle \overline{2} \rangle$ EXISTING FLOOR DRAINS (TYP. OF ALL) AND P-TRAPS BELOW GRADE TO BE DEMOLISHED AND
- EXISTING FLOOR DRAINS (TYP. OF ALL) AND P-TRAPS BELOW GRADE TO BE DEMOLISHED AND REMOVED. EXISTING SANITARY PIPING TO BE CAPPED AND SEALED WATERTIGHT.

DO NOT SCALE DRAWINGS.
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OF ANY ERRORS OR OMISSIONS.
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4 2023/07/12 ISSUED FOR 95% REVIEW

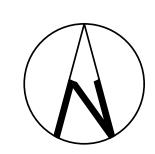
3 2023/06/02 ISSUED FOR 50% CD REVIEW

2 2023/04/26 ISSUED FOR 100% DD REVIEW

1 2023/04/10 ISSUED FOR 50% REVIEW

No. Date Action





Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title

BASEMENT— PLUMBING —

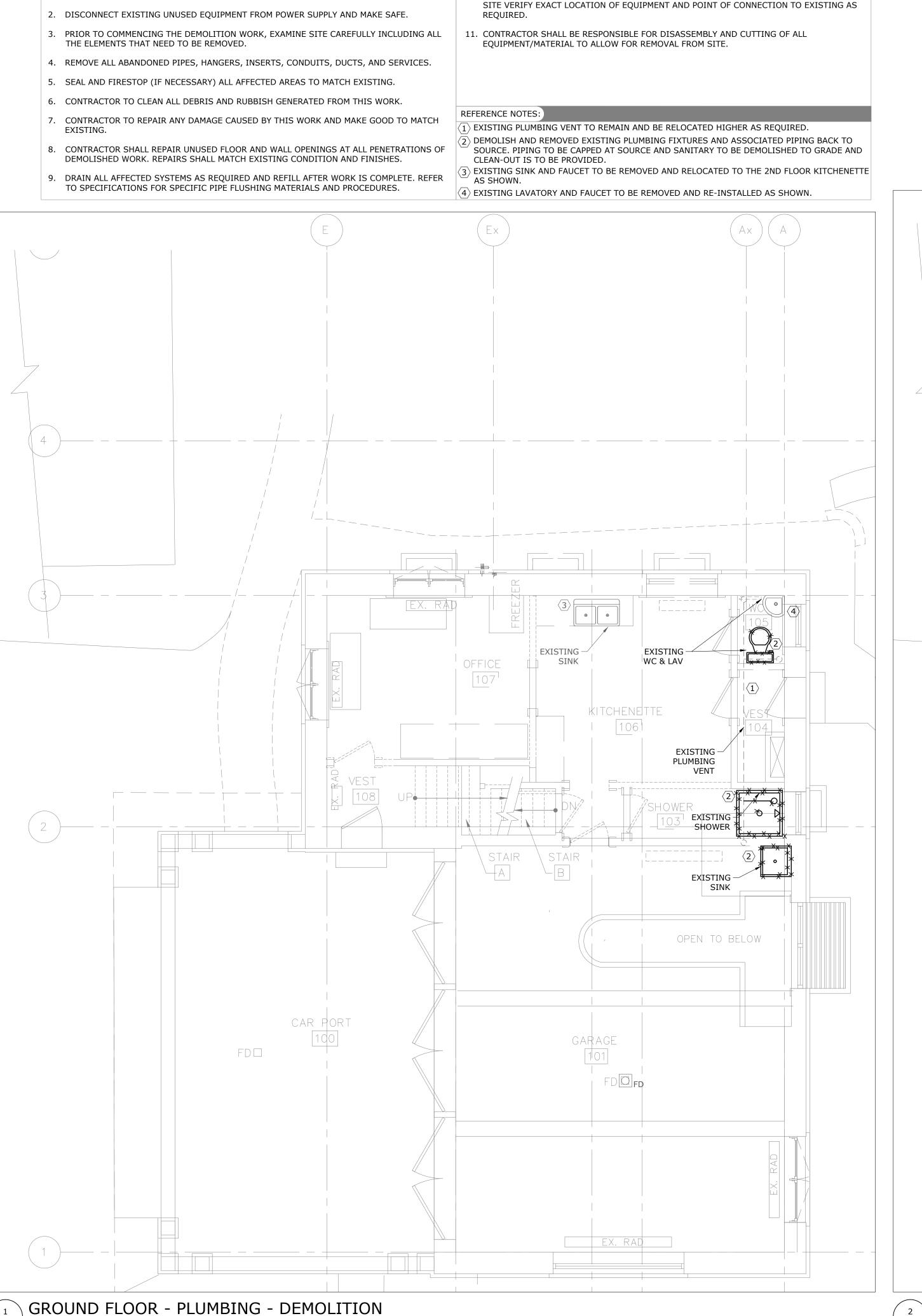
DEMOLITION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626—M	Client Approval
Revision No.	Drawing No.
0	M-200

PLUMBING GENERAL NOTES: DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. 1. THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS. OF ANY EKKURS OR UMISSIONS.

NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. 2. CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD. 3. COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION. 4. PROVIDE ALL NEW FIXTURES AS INDICATED. 5. PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE. SIZE TO MATCH REFERENCE NOTES: $\langle 1
angle$ existing Laundry sink relocated as shown. Provide New Faucet for existing 6. ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION. LAUNDRY SINK. 7. ALL PLUMBING VENT PIPING SHALL BE INSIDE WALLS AND INSTALLED IN ACCORDANCE WITH THE OBC PART 7. CONTRACTOR TO VERIFY VENT PIPING ON SITE. PROVIDE ALL MODIFICATION TO EXISTING TO MEET OBC 8. CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH EXISTING. 9. ALL BELOW GRADE SANITARY PIPING TO BE 4"Ø @ 1% SLOPE, UNLESS INDICATED OTHERWISE. -1/2" DCW TO HOSE BIB FROM ELEVATOR ANGLE STRAINER UP 14R (ANGLE STRAINER) |INV. |= -129.75" |-STAIR STAIR ELEV. LC ELEV. LOBBY NEW ADDITION NEW ADDITION - SANITARY ABOVE FOR LAV-2 ⊢INV. = -16.75" WC-1 - SAN - - - SAN - - O - SANITARY ABOVE 3"Ø SAN — FOR WC-2 - INV, = -16.75" INV. = -17.5" ͺͺINV. = -130.05" |-INV. \(\delta\) -131.85" 3/4"Ø DHW — -1"Ø DCW DOWN INV. = -17.24" EXISTING 3"Ø SAN — TO DHWT-1 EXISTING BALANCE TO 0.5 GPM 1"Ø DCW -4 2023/07/12 ISSUED FOR 95% REVIEW - FUNNEL FLOOR DRAIN 3/4"Ø DCW -SK-1 & EW-3 HWT-1 SK-1 & EW-3 TO CAPTURE HWT-1 AND FROM B-1 & B-2 DRAIN LINE 3 2023/06/02 ISSUED FOR 50% CD REVIEW 2 2023/04/26 ISSUED FOR 100% DD REVIEW - SANITARY ABOVE 1 2023/04/10 ISSUED FOR 50% REVIEW FOR SK-2 - EXPANSION INV. = -132.79" INV. = -15.25" Action No. Date 3"Ø FROM — SEE BASEMENT -- 1-1/2"Ø SAN WASHER ABOVE GROUND INV. = -18.65" INV. = -16.07" INV. = -131.45" PIPING FOR ∠ 2"Ø CAPPED SANITARY INV. = -20.36" OH - SAN - - - SAN -SUMP PUMP - 4"Ø SAN ■ MAT 4SITE ENGINEERS LTD. DISCHARGE 1"Ø DCW INV. = -22.07" SP-1 - SAN - - SAN - --1"Ø DCW & 1"Ø DHW ___ 2"Ø SAN RISERS UP TO INV. = -130.67" CLEAN-OUT -FIXTURES ┌4"Ø SAN ─ SUMP PUMP CONTROLLER ELECTRIC TRAP -PRIMER - 4" SAN STACK BACK FLOW IN — - CTE INCOMING DCW VERTICAL POSITION WATER AND INSTALLED 30" TO INV. = -21.95" 60" FROM FFE AND IN -INV. = -22.63" ACCORDANCE WITH −1"Ø|DCW CSA B64. Orientation Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5 Drawing title BASEMENT - PLUMBING BELOW & ABOVE GRADE -MODIFICATION roject No. 22626 1/4" = 1'-0" 2023/01/25 A.Y. Drawn by:
A.Y. Checked by: R.B. Drawing file: Client Approval 22626-M Drawing No. Revision No. M - 201BASEMENT - PLUMBING ABOVE GRADE - MODIFICATION BASEMENT - PLUMBING BELOW GRADE - MODIFICATION M-201 SCALE: 1/4" = 1'-0" M-201 SCALE: 1/4" = 1'-0"



DEMOLITION GENERAL NOTES: (CONTINUED)

10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO

DEMOLITION GENERAL NOTES:

M-202 SCALE: 1/4" = 1'-0"

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.

PLUMBING GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- 2. CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE.
- 3. COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION.
- 4. PROVIDE ALL NEW FIXTURES AS INDICATED.
- 5. PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE. SIZE TO MATCH FIXTURE.
- 6. ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION.
- 7. ALL PLUMBING VENT PIPING SHALL BE INSIDE WALLS AND INSTALLED IN ACCORDANCE WITH THE OBC PART 7. CONTRACTOR TO VERIFY VENT PIPING ON SITE. PROVIDE ALL MODIFICATION TO EXISTING TO MEET OBC REQUIREMENTS.
- 8. CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH EXISTING.

GROUND FLOOR - PLUMBING - MODIFICATION

M-202 SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES (CONTINUED):

- 9. ALL BELOW GRADE SANITARY PIPING TO BE 4"Ø @ 1% SLOPE, UNLESS INDICATED OTHERWISE.
- 10. ALL PIPES TO BE ENCLOSED IN WALLS OR CEILINGS UNLESS OTHERWISE NOTED.

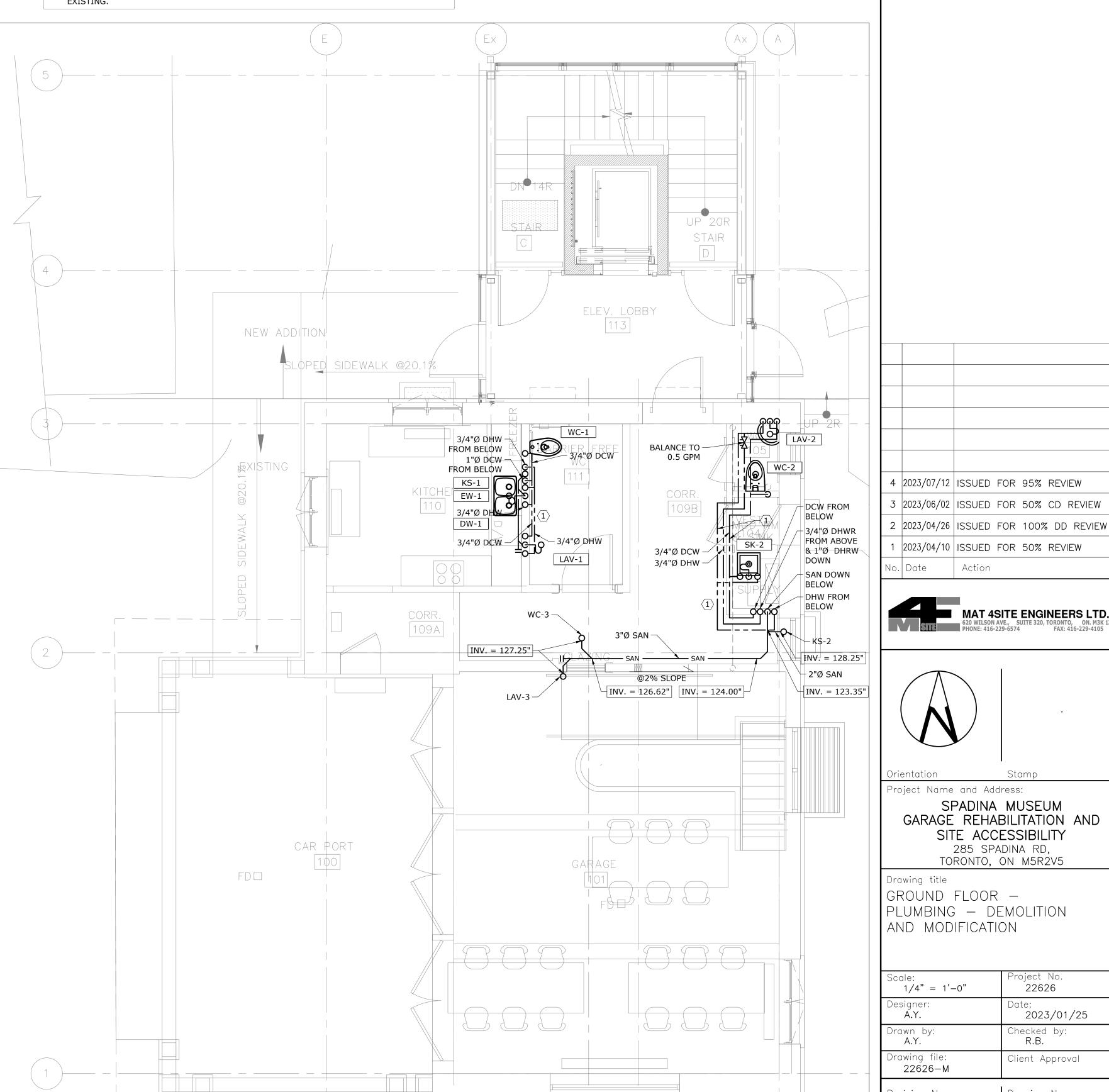
REFERENCE NOTES:

 $\overline{1}
angle$ RUN ALL PLUMBING PIPING VERTICALLY STACKED WITHIN WALL CAVITY. PIPING SHOWN OUTSIDE FOR CLARITY PURPOSES.

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF

MAT 4SITE ENGINEERS LTD.



Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 12
PHONE: 416-229-6574 FAX: 416-229-4105

Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title GROUND FLOOR -PLUMBING - DEMOLITION AND MODIFICATION

Scale: 1/4" = 1'-0"	22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.

M - 202

DEMOLITION GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMOLITION DRAWINGS.

SECOND FLOOR - PLUMBING - DEMOLITION

SCALE: 1/4" = 1'-0"

- 2. DISCONNECT EXISTING UNUSED EQUIPMENT FROM POWER SUPPLY AND MAKE SAFE.
- 3. PRIOR TO COMMENCING THE DEMOLITION WORK, EXAMINE SITE CAREFULLY INCLUDING ALL THE ELEMENTS THAT NEED TO BE REMOVED.
- 4. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS, AND SERVICES.
- 5. SEAL AND FIRESTOP (IF NECESSARY) ALL AFFECTED AREAS TO MATCH EXISTING.
- 6. CONTRACTOR TO CLEAN ALL DEBRIS AND RUBBISH GENERATED FROM THIS WORK.
- 7. CONTRACTOR TO REPAIR ANY DAMAGE CAUSED BY THIS WORK AND MAKE GOOD TO MATCH
- DEMOLISHED WORK. REPAIRS SHALL MATCH EXISTING CONDITION AND FINISHES.

DEMOLITION GENERAL NOTES: (CONTINUED)

- 9. DRAIN ALL AFFECTED SYSTEMS AS REQUIRED AND REFILL AFTER WORK IS COMPLETE. REFER TO SPECIFICATIONS FOR SPECIFIC PIPE FLUSHING MATERIALS AND PROCEDURES.
- 10. ALL EXISTING SYSTEM ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO SITE VERIFY EXACT LOCATION OF EQUIPMENT AND POINT OF CONNECTION TO EXISTING AS REQUIRED.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISASSEMBLY AND CUTTING OF ALL EQUIPMENT/MATERIAL TO ALLOW FOR REMOVAL FROM SITE.

REFERENCE NOTES:

- $\overline{1}$ EXISTING KITCHEN SINK TO BE DEMOLISHED AND REMOVED. DCW AND DHW PIPING TO BE DEMOLISHED BACK TO SOURCE AND CAPPED. SANITARY PIPING TO BE DEMOLISHED BACK TO STACK, CLEAN-OUT TO BE PROVIDED.
- 8. CONTRACTOR SHALL REPAIR UNUSED FLOOR AND WALL OPENINGS AT ALL PENETRATIONS OF (2) EXISTING BATHROOM GROUP TO BE DEMOLISHED AND REMOVED. DCW AND DHW PIPING TO BE DEMOLISHED BACK TO SOURCE AND CAPPED. SANITARY PIPING TO BE DEMOLISHED BACK TO STACK, CLEAN-OUT TO BE PROVIDED.

PLUMBING GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL PLUMBING DRAWINGS.
- 2. CONTRACTOR TO VERIFY ALL LOCATIONS AND PIPE SLOPES ON SITE.
- 3. COORDINATE WITH ALL TRADES FOR NEW PLUMBING FIXTURE AND PIPING INSTALLATION.
- 4. PROVIDE ALL NEW FIXTURES AS INDICATED.

6. ALL DCW, DHW & DRAINAGE PIPING SHALL BE INSULATED AS PER SPECIFICATION.

- 5. PROVIDE NEW ISOLATION VALVE AND FLEXIBLE HOSE CONNECTIONS FOR EACH FIXTURE.
- SIZE TO MATCH FIXTURE.

PLUMBING GENERAL NOTES (CONTINUED):

8. CONTRACTOR SHALL SEAL UNUSED OPENINGS AND REPAIR FLOOR/CEILING TO MATCH

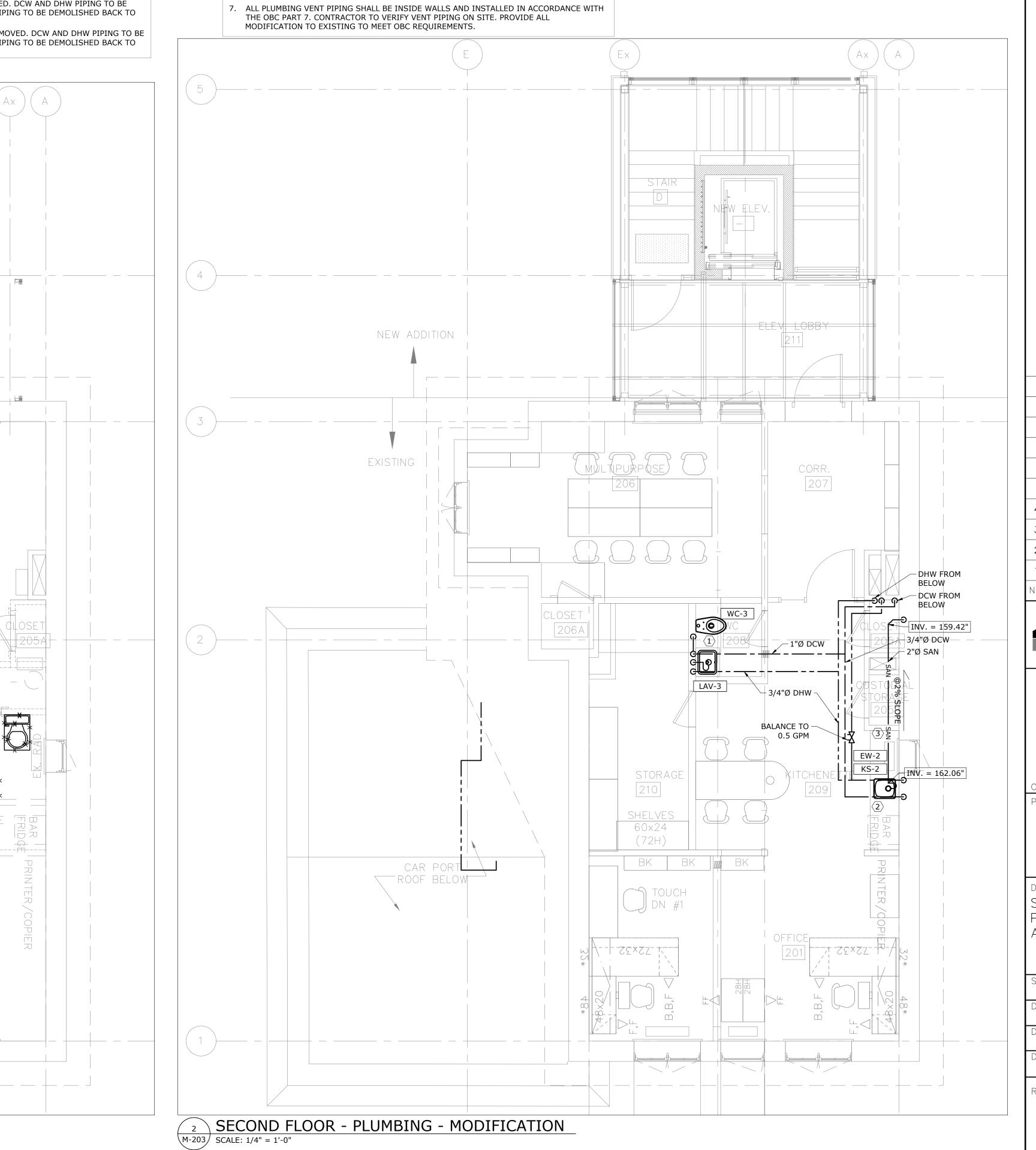
REFERENCE NOTES:

- $\ket{1}$ PROVIDE NEW PLUMBING FIXTURES AND ASSOCIATED PIPING AS SHOWN.
- 2 EXISTING KITCHEN SINK AND FAUCET FROM GROUND FLOOR RELOCATED AS SHOWN. $|\overline{3}
 angle$ run sanitary within horizontal shaft within the Millwork. Refer to architectural DRAWINGS FOR DETAILS.

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS. OF ANY EMPORES OR OMISSIONS.

NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.



Γ----| OFFICE CORRIDOR KITCHEN 200 204A EX. RAD

4 2023/07/12 ISSUED FOR 95% REVIEW

3 2023/06/02 ISSUED FOR 50% CD REVIEW 2 2023/04/26 ISSUED FOR 100% DD REVIEW

2023/04/10 ISSUED FOR 50% REVIEW Action



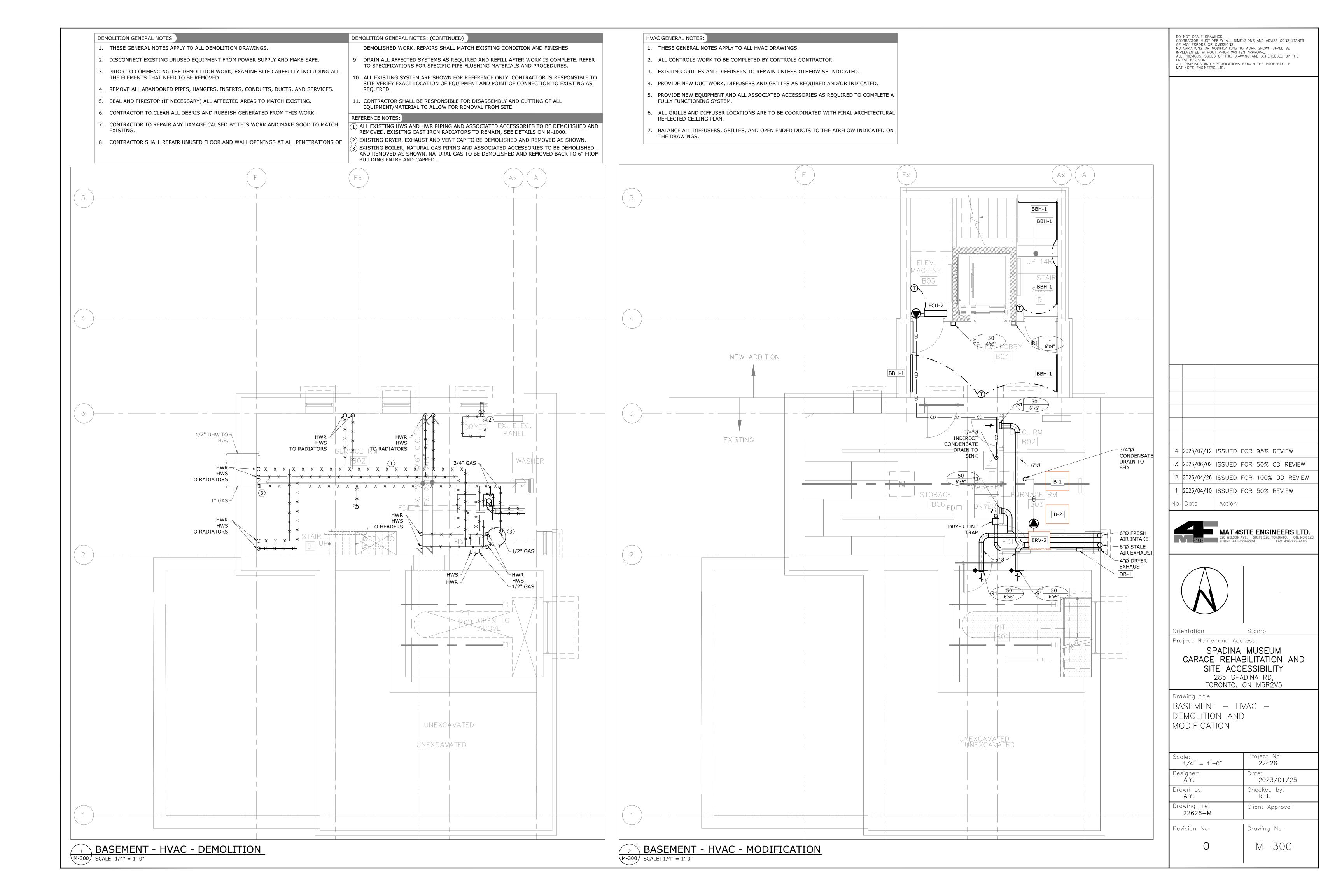
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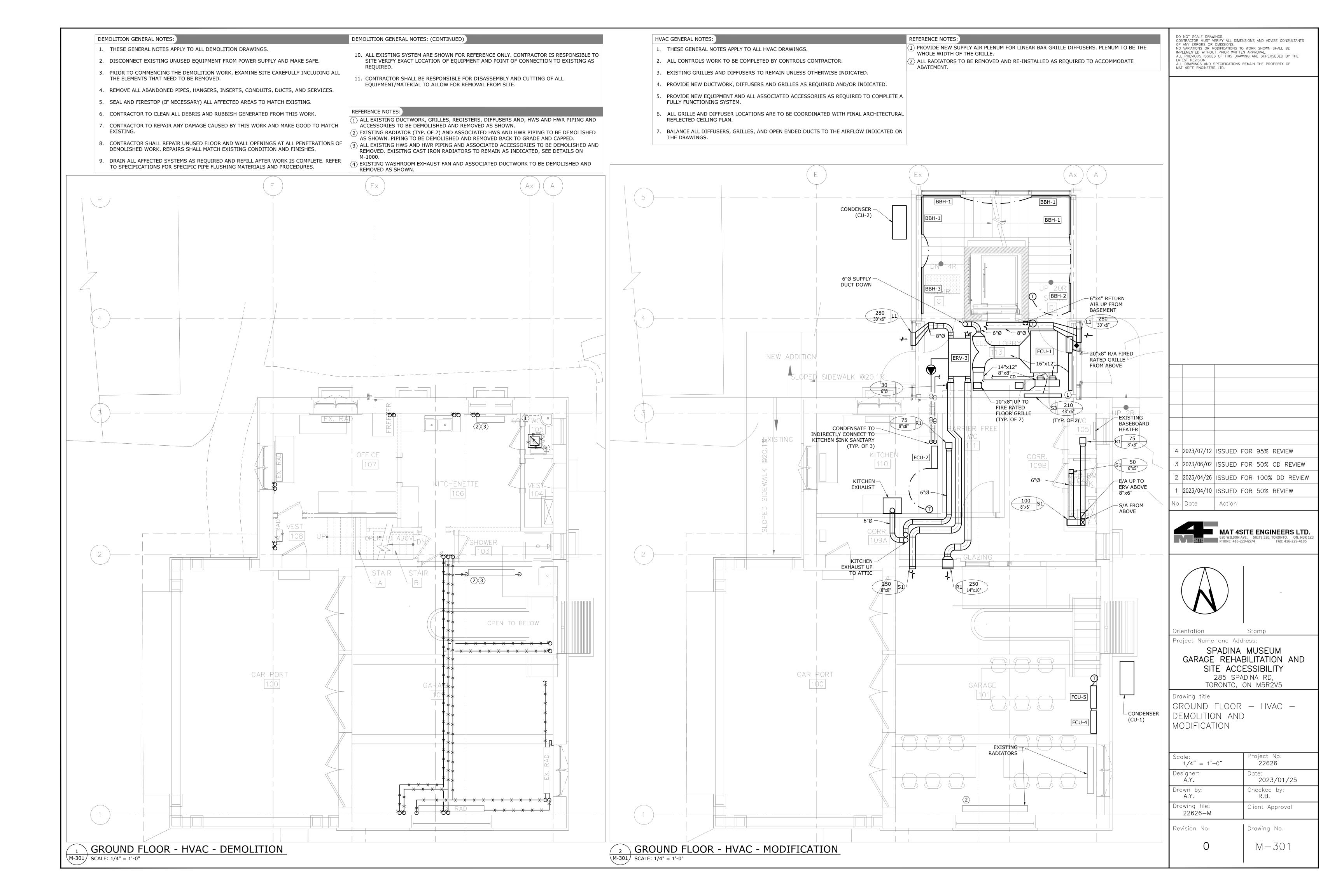
SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

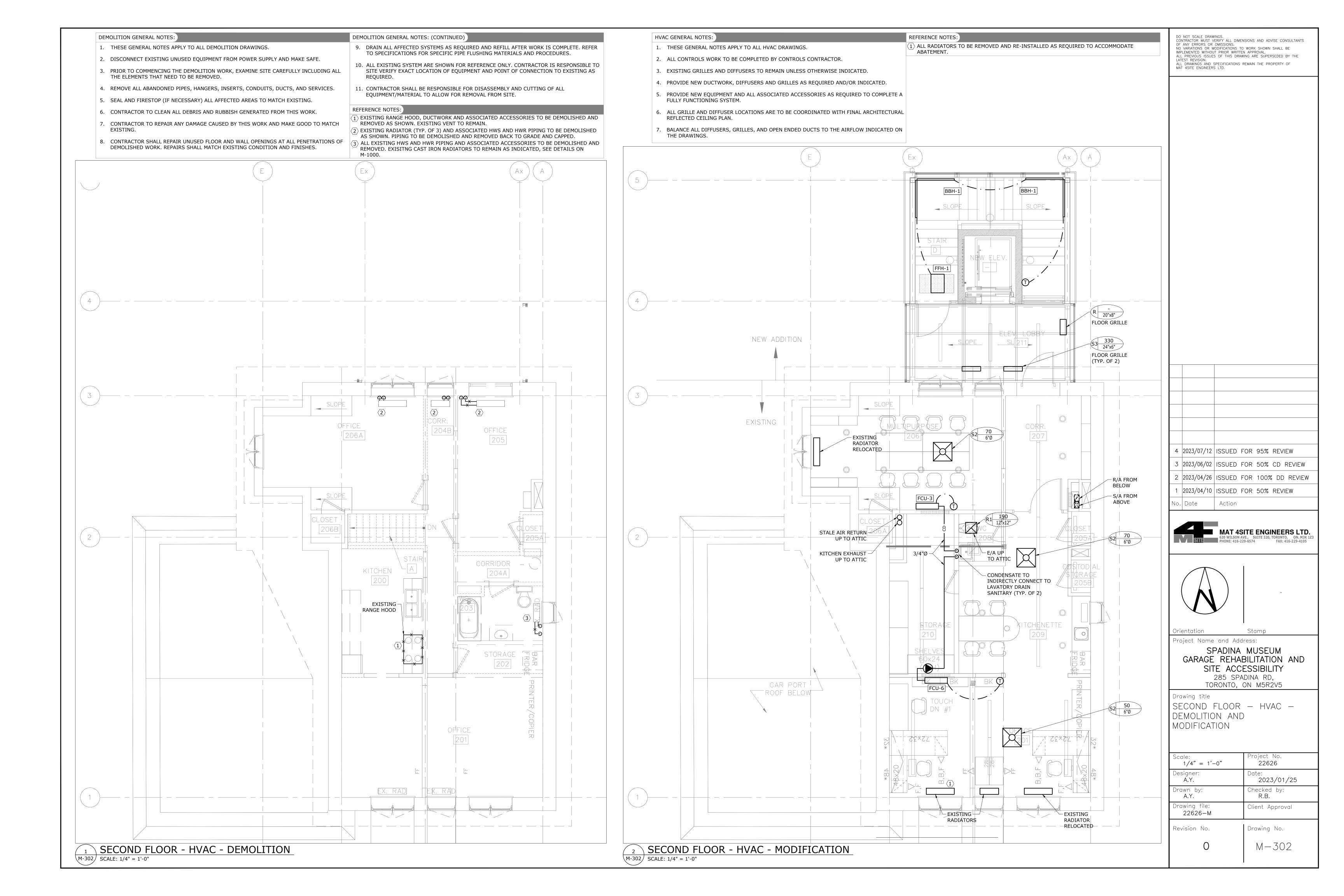
Drawing title SECOND FLOOR -PLUMBING - DEMOLITION AND MODIFICATION

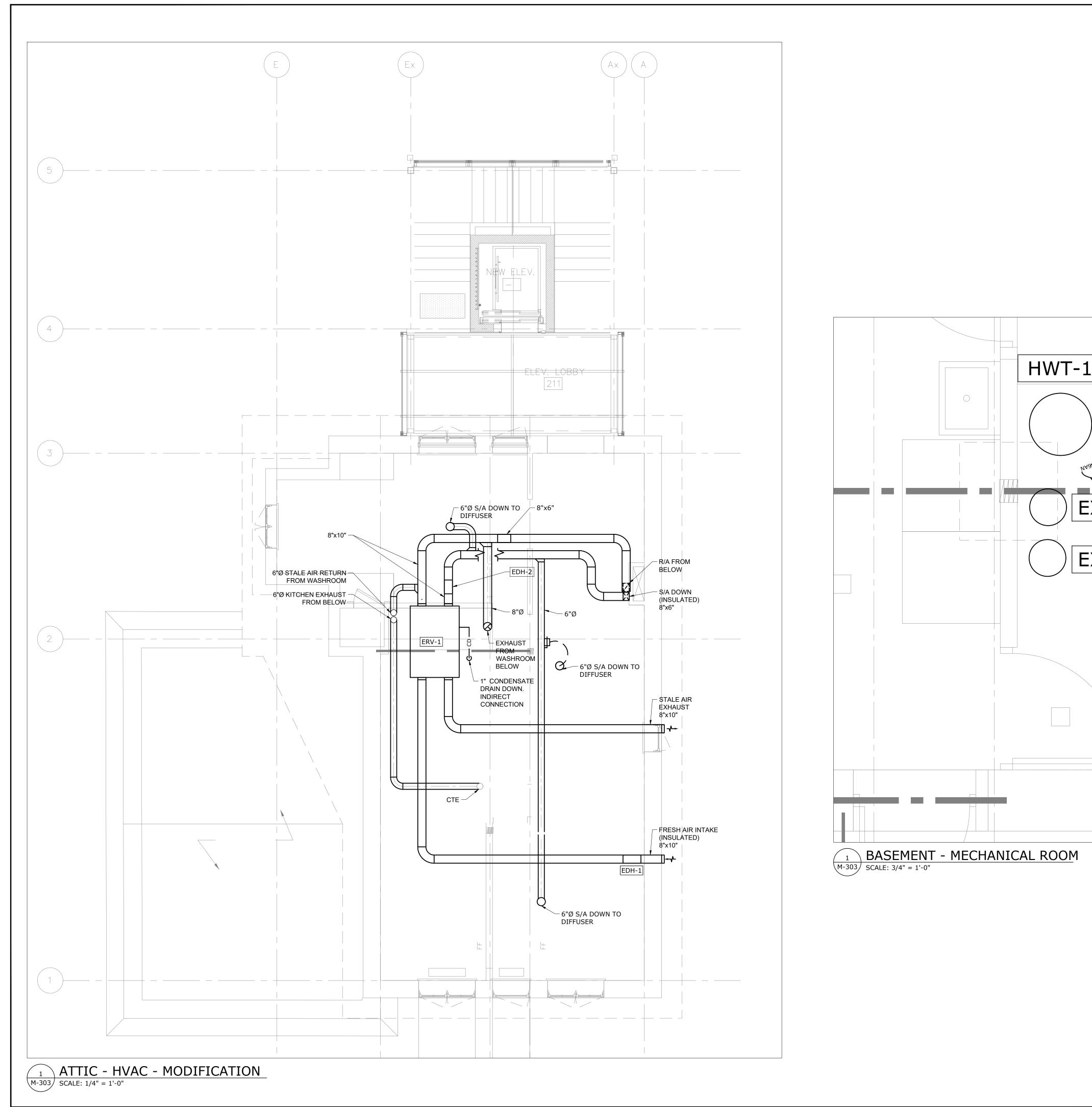
Scale:	Project No.
1/4" = 1'-0"	22626
Designer:	Date:
A.Y.	2023/01/25
Drawn by:	Checked by:
A.Y.	R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.

M - 203







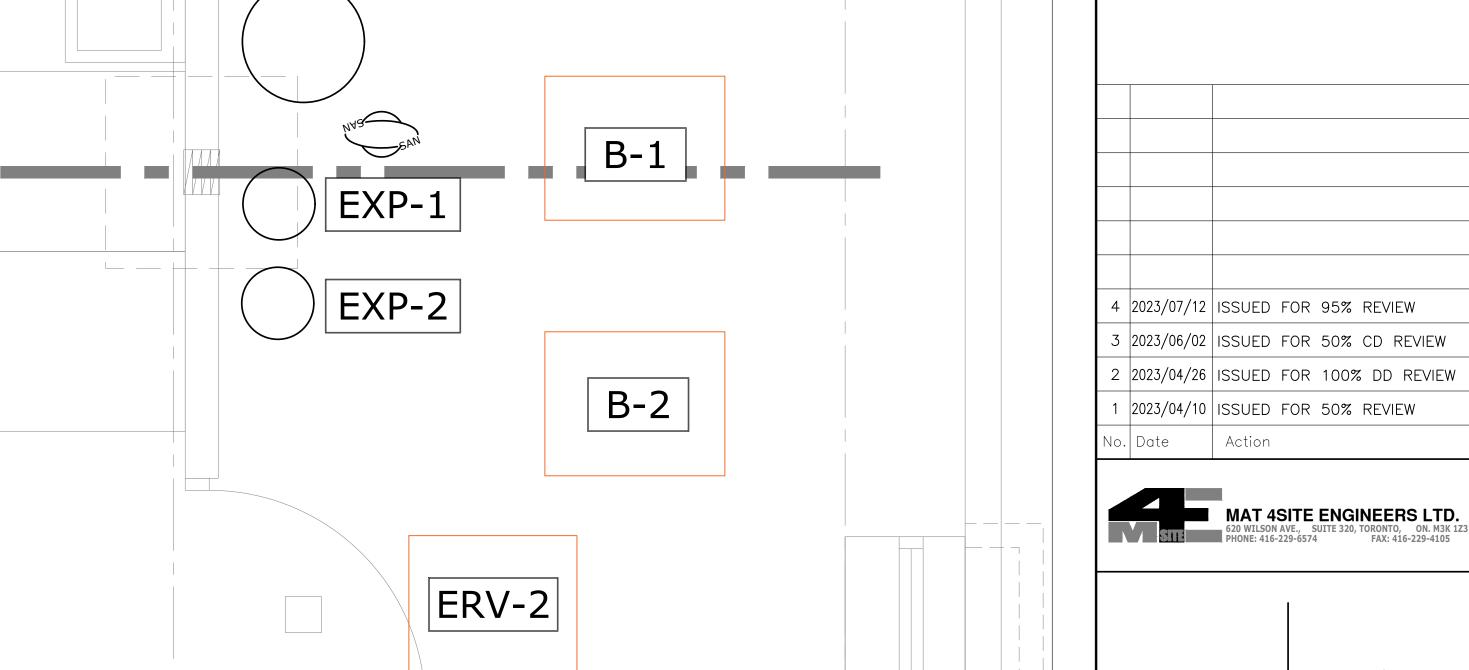


HVAC GENERAL NOTES:

REFLECTED CEILING PLAN.

- 1. THESE GENERAL NOTES APPLY TO ALL HVAC DRAWINGS.
- 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
- EXISTING GRILLES AND DIFFUSERS TO REMAIN UNLESS OTHERWISE INDICATED.
 PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES AS REQUIRED AND/OR INDICATED.
- 5. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A
- FULLY FUNCTIONING SYSTEM.6. ALL GRILLE AND DIFFUSER LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL
- 7. BALANCE ALL DIFFUSERS, GRILLES, AND OPEN ENDED DUCTS TO THE AIRFLOW INDICATED ON THE DRAWINGS.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
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Orientation Stamp
Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

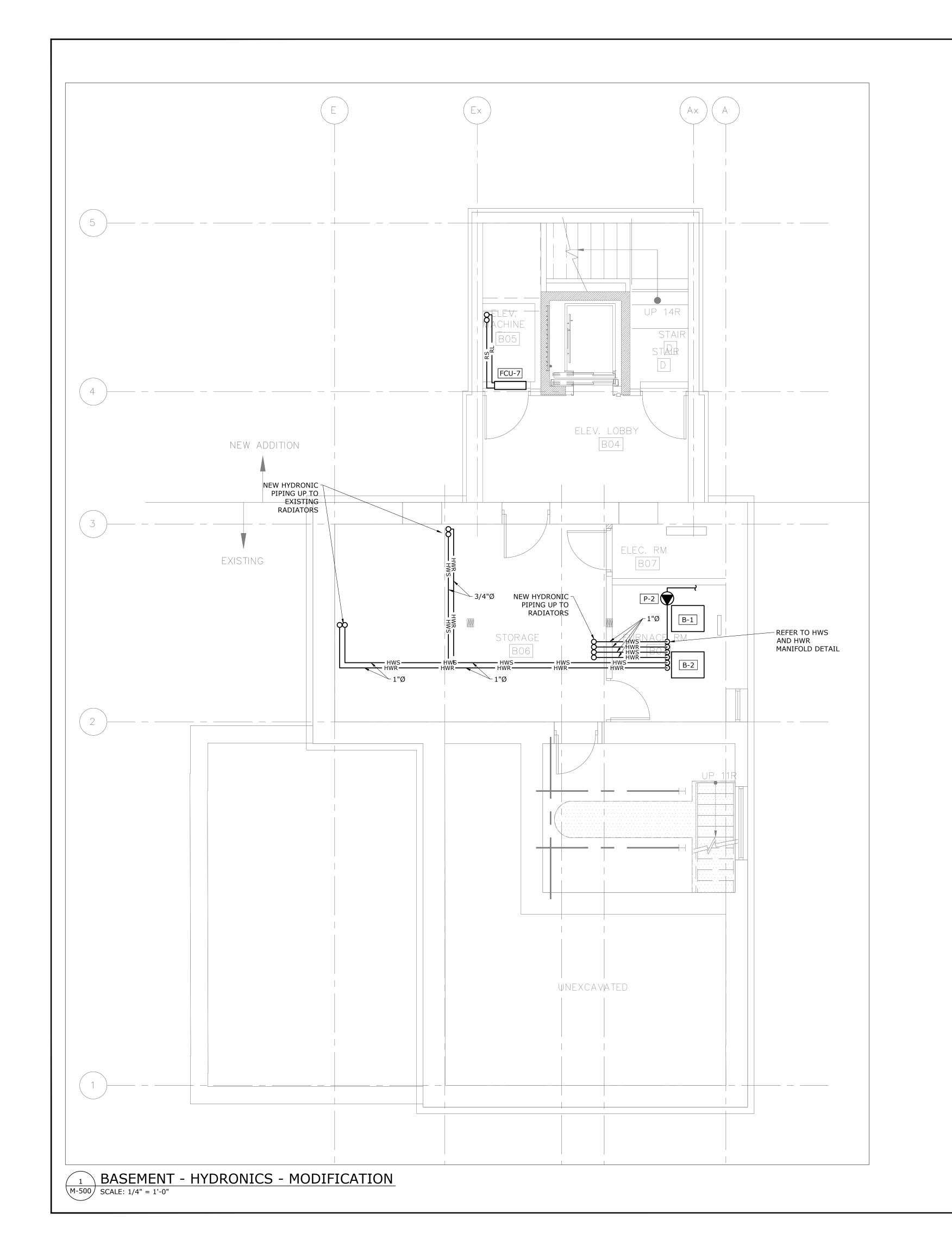
Drawing title

ATTIC — HVAC —

MODIFICATION & BASEMENT

MECHANICAL ROOM

Scale: N.T.S.	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.
Ο	M - 303



HYDRONICS GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL HYDRONICS DRAWINGS.
- 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
- 3. PROVIDE NEW RADIATORS, PIPING, VALVES, AND INSULATION AS REQUIRED AND/OR INDICATED.
- 4. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
- 5. ALL RADIATOR LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL DRAWING PACKAGE.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE
LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.

4 2023/07/12 ISSUED FOR 95% REVIEW

3 2023/06/02 ISSUED FOR 50% CD REVIEW

2 2023/04/26 ISSUED FOR 100% DD REVIEW
1 2023/04/10 ISSUED FOR 50% REVIEW

No. Date Action





Project Name and Address:

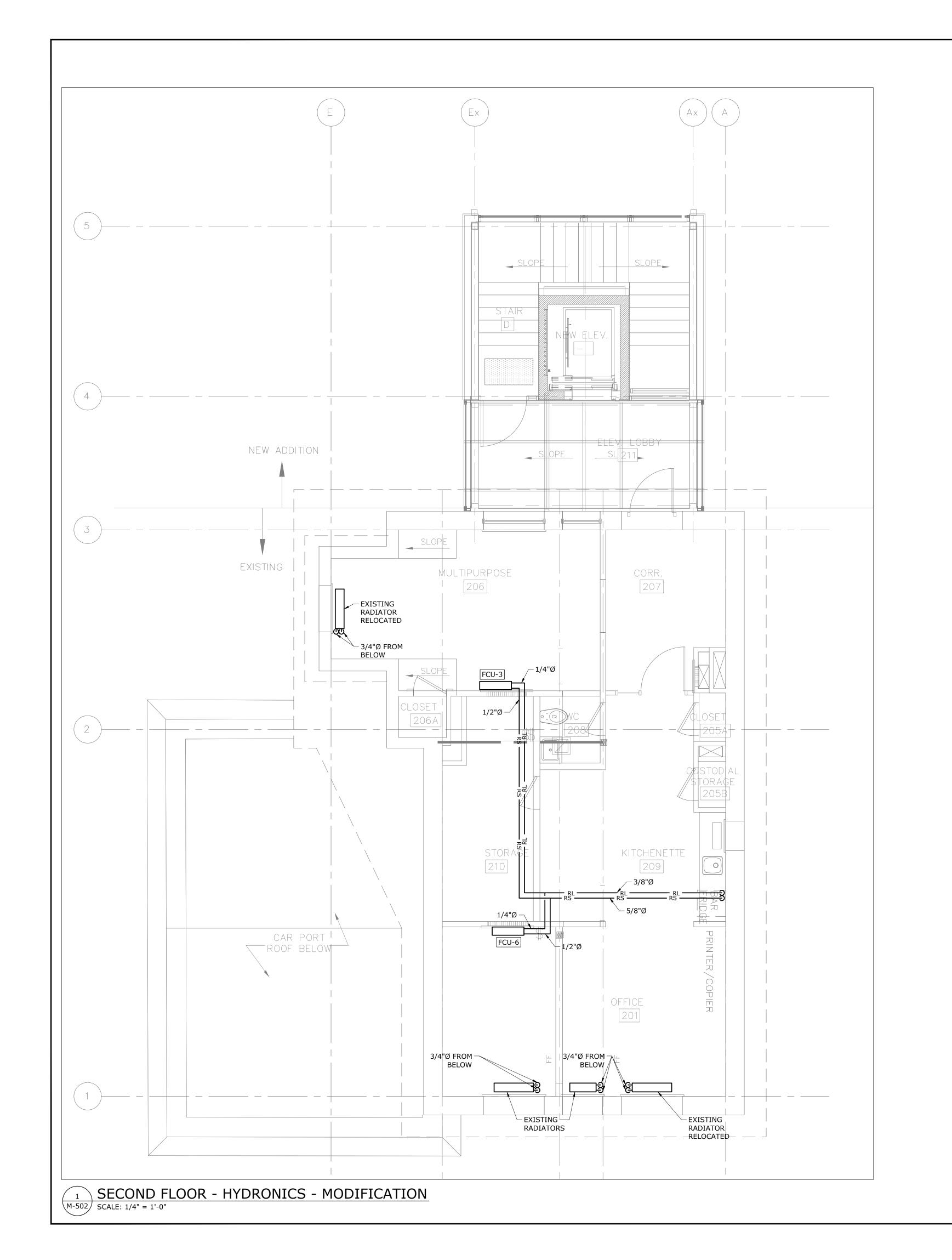
SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title

BASEMENT — HYDRONICS

— MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.
0	M-500



HYDRONICS GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL HYDRONICS DRAWINGS.
- 2. ALL CONTROLS WORK TO BE COMPLETED BY CONTROLS CONTRACTOR.
- 3. PROVIDE NEW RADIATORS, PIPING, VALVES, AND INSULATION AS REQUIRED AND/OR INDICATED.
- 4. PROVIDE NEW EQUIPMENT AND ALL ASSOCIATED ACCESSORIES AS REQUIRED TO COMPLETE A FULLY FUNCTIONING SYSTEM.
- 5. ALL RADIATOR LOCATIONS ARE TO BE COORDINATED WITH FINAL ARCHITECTURAL DRAWING PACKAGE.

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4 2023/07/12 ISSUED FOR 95% REVIEW

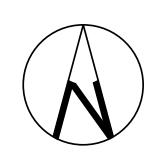
3 2023/06/02 ISSUED FOR 50% CD REVIEW

2 2023/04/26 ISSUED FOR 100% DD REVIEW

1 2023/04/10 ISSUED FOR 50% REVIEW

No. Date Action



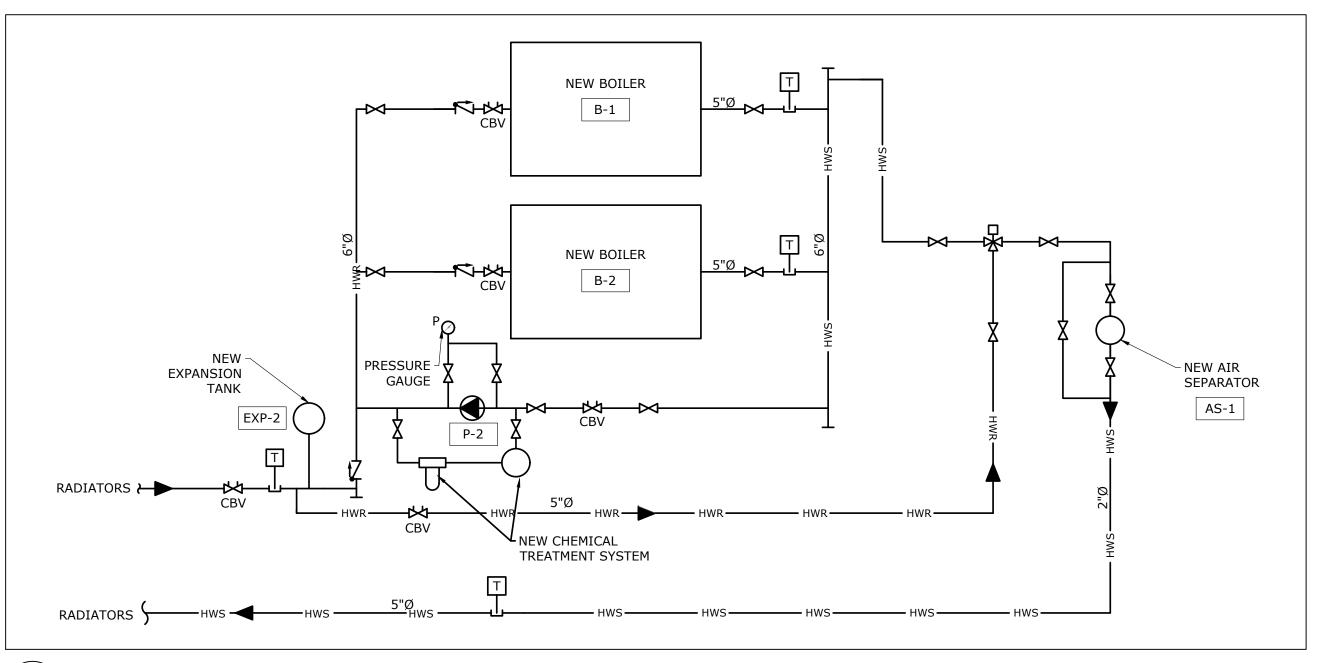


Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
SECOND FLOOR —
HYDRONICS —
MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626—M	Client Approval
Revision No.	Drawing No.
0	M-502



BOILER SCHEMATIC

M-800 SCALE: N.T.S.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.
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4 2023/07/12 ISSUED FOR 95% REVIEW

3 2023/06/02 ISSUED FOR 50% CD REVIEW
2 2023/04/26 ISSUED FOR 100% DD REVIEW

1 2023/04/10 ISSUED FOR 50% REVIEW

No. Date Action

MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

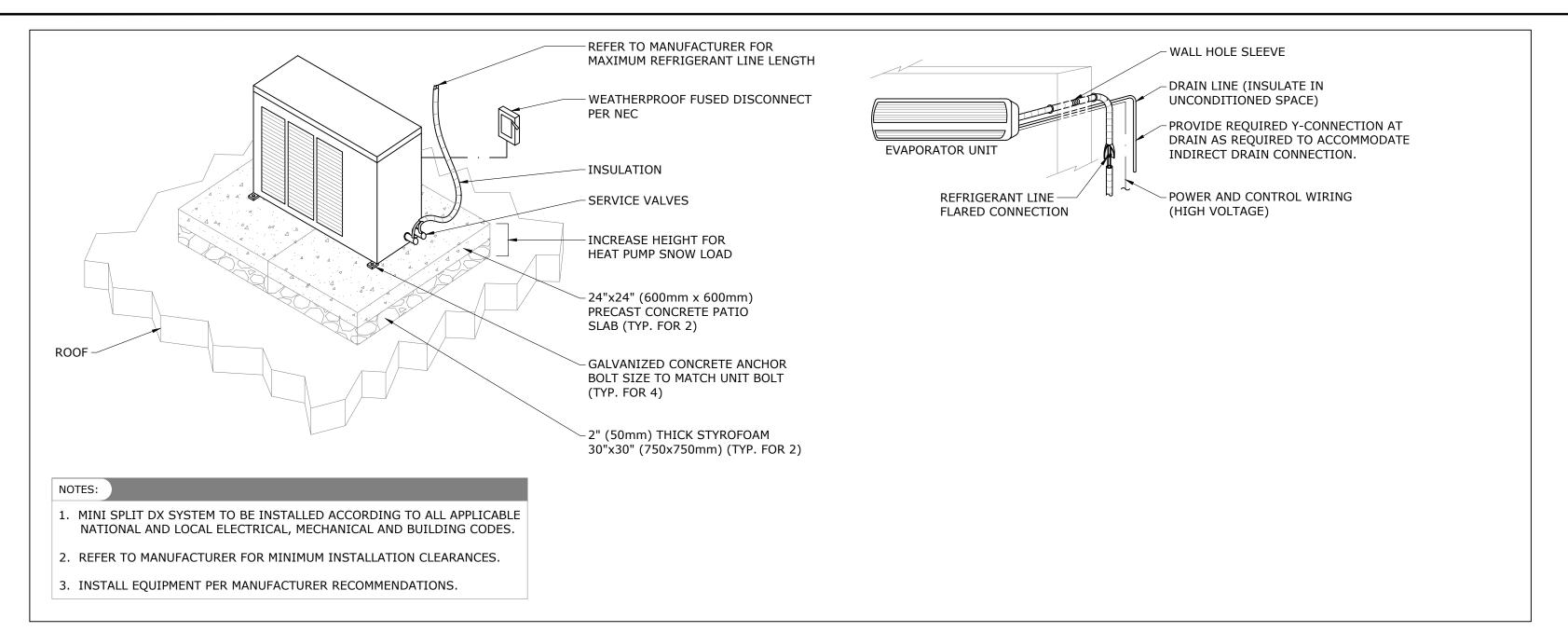
Orientation Stamp

Project Name and Address:

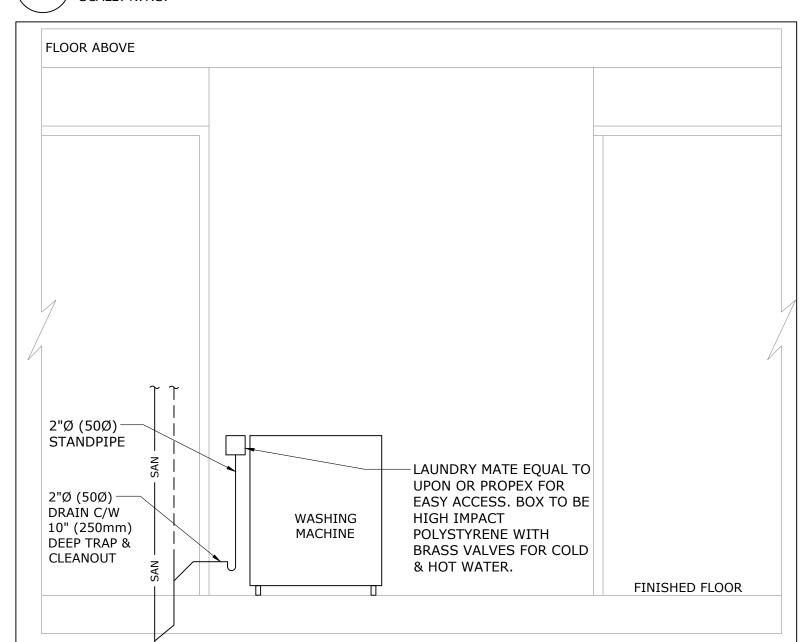
SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
SCHEMATICS

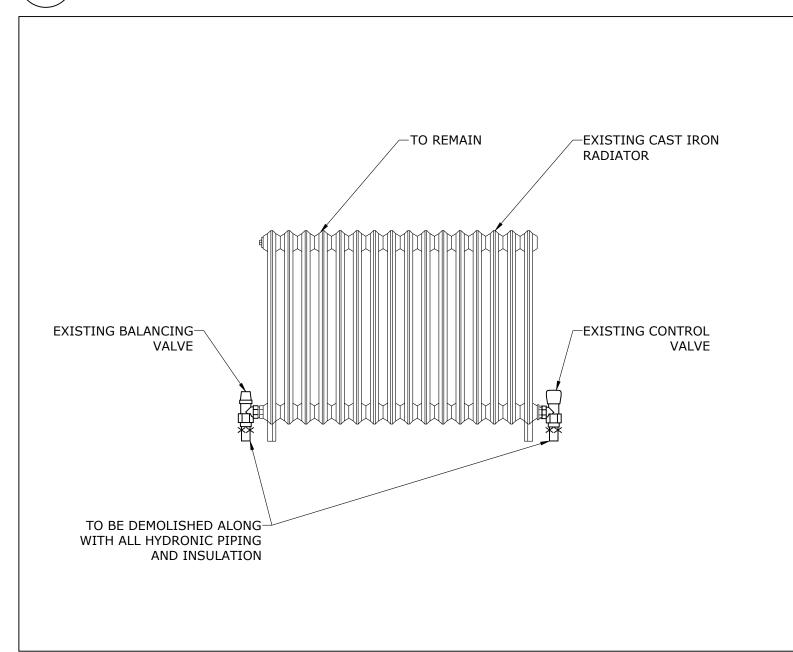
Scale: N.T.S.	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.
0	M-800



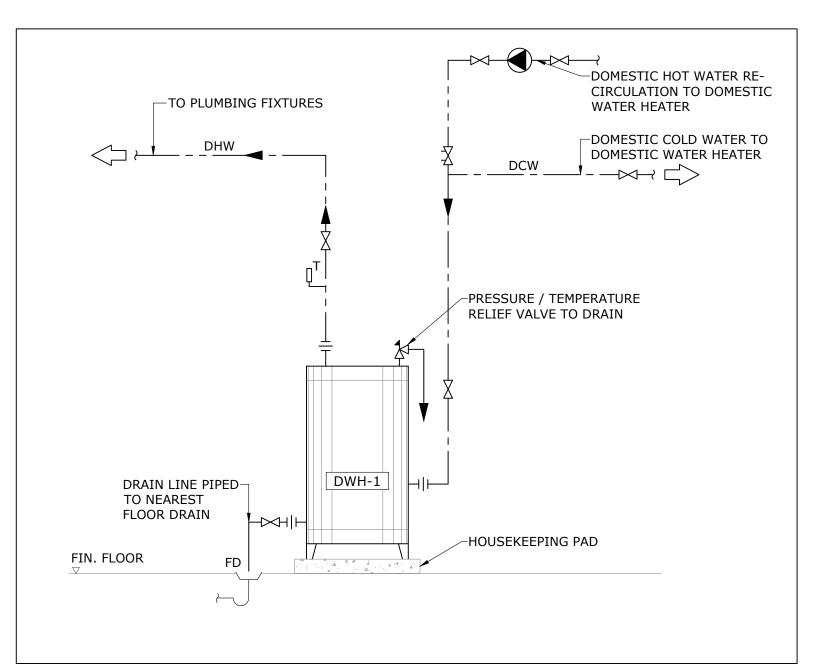
WALL MOUNT SPLIT DX SYSTEM INSTALLATION DETAIL M-1000 SCALE: N.T.S.



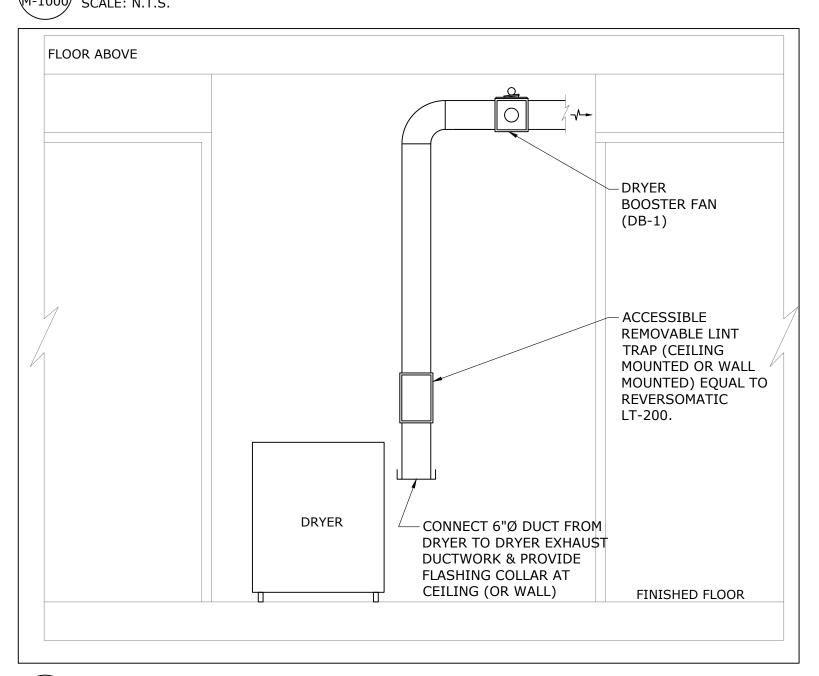
WASHER & DRYER CLOSET DETAIL M-1000 SCALE: N.T.S.



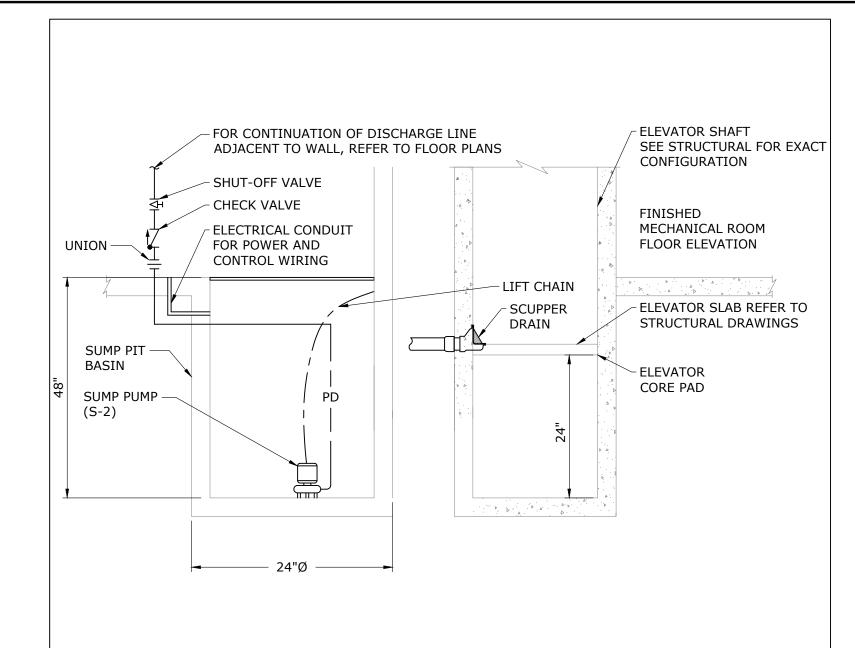
6 CAST IRON RADIATOR DETAIL
M-1000 SCALE: N.T.S.



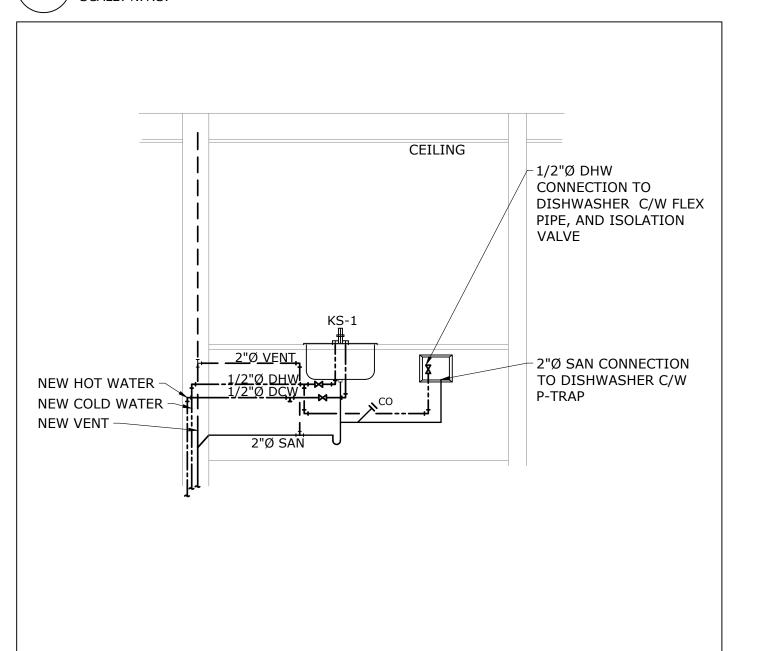
4 ELECTRIC DOMESTIC WATER HEATER DETAIL
M-1000 SCALE: N.T.S.



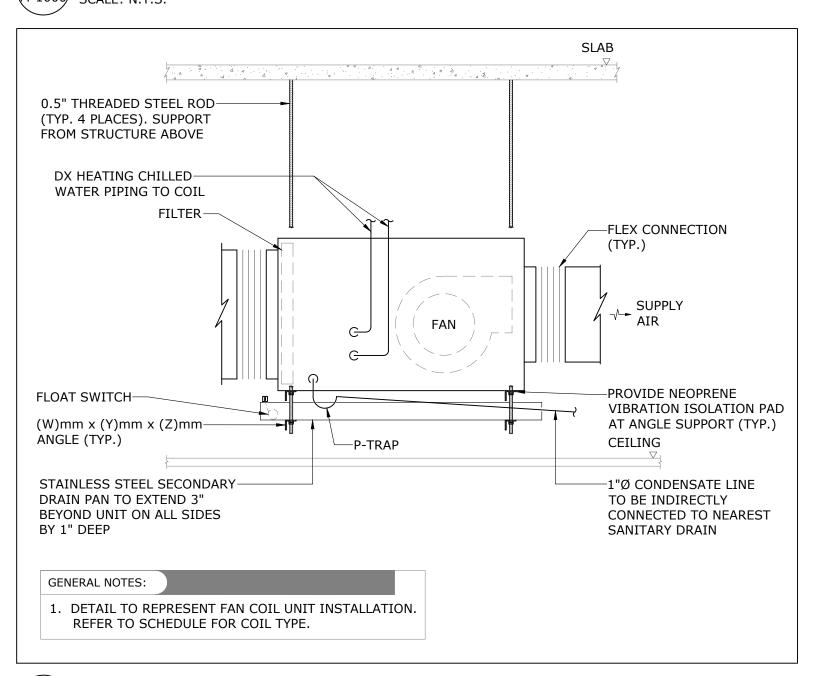
7 DRYER CLOSET DETAIL
M-1000 SCALE: N.T.S.



2 ELEVATOR SUMP PIT DETAIL
M-1000 SCALE: N.T.S.

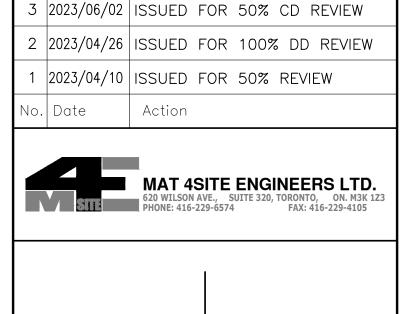


5 SINK INSTALLATION DETIAL SCALE: N.T.S.



8 SUSPENDED FAN COIL UNIT INSTALLATION DETAIL
W-1000 SCALE: N.T.S.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
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LATEST REVISION.
ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF
MAT 4SITE ENGINEERS LTD.



4 2023/07/12 ISSUED FOR 95% REVIEW

Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,

TORONTO, ON M5R2V5

Stamp

Drawing title
DETAILS

Orientation

Scale: N.T.S.	Project No. 22626
Designer: A.Y.	Date: 2023/01/25
Drawn by: A.Y.	Checked by: R.B.
Drawing file: 22626-M	Client Approval
Revision No.	Drawing No.
0	M - 1000

GENERAL NOTES:

- THESE GENERAL NOTES APPLY TO ALL DRAWINGS.
- 2. CONTRACTOR SHALL CONDUCT A SITE REVIEW PRIOR TO PRICING TO BECOME FAMILIAR WITH THE SITE CONDITIONS. VERIFY ALL LOCATIONS, SIZES, AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE CONSULTANT WITH PROPOSED RESOLUTION AND OBTAIN CONSULTANT'S APPROVAL.
- ALL EXISTING SERVICES THAT ARE NOT SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS.
- ALL BASE BUILDING SERVICES NOT IN SCOPE ARE TO REMAIN ON AND INTACT DURING THE DURATION OF WORK. WIRING, CONDUIT, AND EQUIPMENT REQUIRED TO MAINTAIN SERVICE SHALL BE TEMPORARILY SUPPORTED, RE-ROUTED, SERVICED, OR RELOCATED AS REQUIRED. ANY LOSS OF SERVICES TO EXISTING BASE BUILDING OUTSIDE OF SCOPE OF WORK SHALL BE COORDINATED WITH LANDLORD, FACILITY MANAGEMENT.
- ALL EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE LOCATIONS. EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE COORDINATED ON SITE WITH OTHER TRADES AND CONSULTANT.
- 6. SEAL AND FIRESTOP ALL WALL, FLOOR, AND ROOF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- 7. COORDINATE ALL ELECTRICAL WORK AND SHUTDOWNS WITH LANDLORD, FACILITY MANAGEMENT AND OTHER TRADES.
- 8. MAKE GOOD ALL SURFACES, INCLUDING CORE HOLES FROM DEMOLISHED OR RELOCATED EQUIPMENT/DEVICES, AFTER COMPLETION OF WORK.
- 9. ALL MATERIALS SHALL BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- 10. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGNER/GC'S DRAWINGS.

SECURITY NOTES:

- 1. THESE SECURITY NOTES APPLY TO ALL DRAWINGS.
- 2. ALL SECURITY DEVICES SHOWN ON DRAWINGS ARE BY CITY SECURITY CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.

FIRE ALARM NOTES:

- 1. THESE FIRE ALARM NOTES APPLY TO ALL DRAWINGS.
- 2. ALL FIRE ALARM DEVICES SHOWN ON DRAWINGS ARE BY OTHERS. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-IN ONLY.
- 3. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE CITY FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
- 4. ALL FIRE ALARM DEVICES/EQUIPMENT TO BE CONNECTED TO FIRE ALARM PANEL

RESPONSIBILITY MATRIX

SYSTEM				
WORK	SECURITY	COMMUNICATIONS	FIRE ALARM	ELECTRICAL
ROUGH-IN & CONDUIT	ELEC	ELEC	ELEC	ELEC
CABLING & TERMINATION	SEC	ELEC	FA	ELEC
FIELD DEVICE INSTALLATION & TERMINATION	SEC	ELEC	FA	ELEC
PROGRAMMING	SEC	ELEC	FA	N/A
COMMISSIONING & TESTING	SEC	ELEC	FA	ELEC

ELEC = ELECTRICAL CONTRACTOR SEC = SECURITY CONTRACTOR FA = FIRE ALARM CONTRACTOR N/A = NOT APPLICABLE

POWER AND SYSTEMS LEGEND SYMBOL DESCRIPTION			
	NEW WORK		
	EXISTING TO REMAIN		
— X —X—	EXISTING TO BE DEMOLISHED		
\triangle	DATA OUTLET		
R	COMMUNICATIONS RACK		
	TELEPHONE OUTLET		
Δ	COMBINATION TELEPHONE & DATA OUTLET		
	COMBINATION TELEPHONE & DATA OUTLET - FLOOR MOUNTED		
•	COMBINATION TELEPHONE & DATA OUTLET - CEILING MOUNTED		
	COMBINATION POWER & COMMUNICATION FLOOR OUTLET BOX - SURFACE MOUNTED		
	COMBINATION POWER & COMMUNICATION FLOOR OUTLET BOX - FLUSH MOUNTED		
	COMBINATION POWER & COMMUNICATION POKE-THRU TYPE FLOOR OUTLET BOX - FLUSH MOUNTED		
+	TELEVISION OUTLET		
lacksquare	DISHWASHER OUTLET		
DW	DISTIWASTIER GOTEET		
WH	WATER HEATER OUTLET		
\bigcirc_{X}	GENERAL OUTLET X = TYPE		
	GENERAL OUTLET - FLOOR MOUNTED		
	X = TYPE GENERAL OUTLET - CEILING MOUNTED		
x	X = TYPE		
Φ	SINGLE RECEPTACLE		
	SINGLE RECEPTACLE - FLOOR MOUNTED		
\bigcirc	SINGLE RECEPTACLE - CEILING MOUNTED		
\bigoplus	DUPLEX RECEPTACLE		
	DUPLEX RECEPTACLE - FLOOR MOUNTED		
\bigcirc	DUPLEX RECEPTACLE - CEILING MOUNTED		
•	DUPLEX RECEPTACLE - C/W ISOLATED GROUND		
	DUPLEX RECEPTACLE - 5-20R (T-SLOT)		
	SPLIT WIRED DUPLEX RECEPTACLE		
	GFI DUPLEX RECEPTACLE		
	GFI DUPLEX RECEPTACLE - 5-20R (T-SLOT)		
	QUADRUPLEX RECEPTACLE		
	QUADRUPLEX RECEPTACLE - FLOOR MOUNTED		
———	QUADRUPLEX RECEPTACLE - CEILING MOUNTED		
	QUADRUPLEX RECEPTACLE - C/W ISOLATED GROUND		
F	SYSTEMS FURNITURE BASE FEED - FLOOR		
\square_{W}	SYSTEMS FURNITURE BASE FEED - WALL		
$oxedsymbol{oxtime}_{\sf SP}$	SYSTEMS FURNITURE BASE FEED - SERVICE POLE		
	SYSTEMS FURNITURE BASE FEED - WIREMOLD		
Z _{CT}	CONNECTRAC RACEWAY		
	WIREMOLD RACEWAY C/W POWER RECEPTACLE & COMBINATION OUTLET		
Ó	MOTOR CONNECTION		
	DISCONNECT SWITCH - FUSED		
	DISCONNECT SWITCH - NON-FUSED		
	DIRECT CONNECTION TO EQUIPMENT AS NOTED		
	ELECTRIC BASEBOARD HEATER		
	PANEL - SURFACE MOUNTED		
	PANEL - FLUSH MOUNTED		
•	PUSH BUTTON SWITCH		
J)H	JUNCTION BOX - WALL MOUNTED		
	JUNCTION BOX - CEILING MOUNTED		
J	JUNCTION BOX - FLOOR MOUNTED		

SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
SD	SMOKE DETECTOR - CEILING MOUNTED
HD	HEAT DETECTOR
	FIRE ALARM BELL
X	FIRE ALARM HORN
	FIRE ALARM HORN AND STROBE DEVICE
	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM EVACUATION SPEAKER - CEILING MOUNTED
\bigcirc	FIRE ALARM EVACUATION SPEAKER - WALL MOUNTED
S	FIRE ALARM SPEAKER/STROBE COMBINATION - CEILING MOUNTED
-(S)+	FIRE ALARM SPEAKER/STROBE COMBINATION - WALL MOUNTED
ST	FIRE ALARM STROBE - CEILING MOUNTED
STH	FIRE ALARM STROBE - WALL MOUNTED
SA	SMOKE ALARM/STROBE COMBINATION - CEILING MOUNTED
SAH	SMOKE ALARM/STROBE COMBINATION - WALL MOUNTED
SD	DUCT MOUNTED SMOKE DETECTOR
FS	FLOW SWITCH
SV	SUPERVISED VALVE
Н	FIREMAN'S HANDSET
	SINGLE LINE DIAGRAM LEGEND
SYMBOL	DESCRIPTION
	NEW WORK EXISTING TO REMAIN
	EXISTING TO REMAIN EXISTING TO BE DEMOLISHED
	START SWITCH
	START SWITCH STOP SWITCH
-• •- I.	CIRCUIT BREAKER
→ • ·	LIGHTING ARRESTOR
-	SWITCH AND FUSE UNIT
-•*** <u>•</u>	FUSIBLE HIGH VOLTAGE ISOLATION SWITCH

TRANSFORMER - ELECTROSTATIC SHIELD			
	ABBREVIATIONS		
ABB.	DESCRIPTION		
BAS	BUILDING AUTOMATION SYSTEM		
CTE	CONNECT TO EXISTING		
ER	EXISTING TO BE REMOVED		
Е	EXISTING TO REMAIN		
GFI	GROUND FAULT CIRCUIT INTERRUPTER		
GND	BONDING CONDUCTOR CONNECTED TO BUILDING GROUND		
N	NEW TO BE PROVIDED		
RL	EXISTING DEVICE/EQUIPMENT IN RELOCATED POSITION		
RR	REMOVE AND REINSTALL		
TYP	TYPICAL		
VFD	VARIABLE FREQUENCY DRIVE		
WP	WEATHERPROOF		
SLD	SINGLE LINE DIAGRAM		
P.F.C.	POWER FACTOR CAPACITOR		

TRANSFORMER

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR

	LIGHTING LEGEND
SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED OR RELOCATED
	LUMINAIRE FIXTURE
	LUMINAIRE FIXTURE TO BE REMOVED OR RELOCATED
	EMERGENCY LUMINAIRE FIXTURE
	TRACK LIGHTING (NUMBER OF FIXTURES SHOWN ON SYMBOL)
- _{ΔΔΔ} - ₁	TRACK LIGHTING TO BE REMOVED OR RELOCATED
	POT LIGHT
	RECESSED POT LIGHT CONNECTED TO NIGHT LIGHT CIRCUIT
<u></u>	SUSPENDED LUMINAIRE
	WALL MOUNTED LUMINAIRE
\$	SWITCH - SINGLE POLE
\$2	SWITCH - DOUBLE POLE
\$3	SWITCH - THREE WAY
\$4	SWITCH - FOUR WAY
\$ _{LM}	SWITCH - LOW VOLTAGE MASTER
\$ _{DM}	SWITCH - DIMMER
(DL)	DAY LIGHT PHOTO SENSOR
(OS)	OCCUPANCY SENSOR - CEILING MOUNTED
<u>OS</u>	OCCUPANCY SENSOR C/W SWITCH - WALL MOUNTED
\$	EXIT SIGN - PENDANT/CEILING MOUNTED (SHADING INDICATES LIGHTED FACES, ARROWS INDICATE DIRECTION OF EXIT)
₹	EXIT SIGN - WALL MOUNTED (SHADING INDICATES LIGHTED FACES, ARROWS INDICATE DIRECTION OF EXIT)
•	OUTDOOR POLE ARM FIXTURE - ONE LIGHT
	OUTDOOR POLE ARM FIXTURE - TWO LIGHT
	OUTDOOR POLE ARM FIXTURE - THREE LIGHT
H	WALL PACK
H	EMERGENCY WALL PACK
\otimes	OUTDOOR FLOOD LIGHT
	RECESSED POT LIGHT
-	RECESSED POT LIGHT C/W EMERGENCY BATTERY BACKUP
- - -	WALL MOUNTED LUMINAIRE
+	SUSPENDED LUMINAIRE
0.0	EMERGENCY LIGHTS TWIN HEADS C/W BATTERY UNIT
B	

	SECURITY LEGEND		
SYMBOL	DESCRIPTION		
	NEW WORK		
	EXISTING TO REMAIN		
	EXISTING TO BE DEMOLISHED		
	CCTV SECURITY CAMERA DOME		
	INTRUSION PANEL		
CR	CARD READER		
ES	ELECTRIC STRIKE		
MS	INTRUSION MOTION SENSOR		
DC	DOOR CONTACT		
REX	REQUEST FOR EXIT		
DO	AUTOMATIC DOOR OPERATOR BY OTHERS		
HC	HANDICAP PUSH PLATE BY OTHERS		
KP	INTRUSION KEYPAD		

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. OF ANY EKKOKS OR OMISSIONS.

NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

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LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD.

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MAT 4SITE ENGINEERS LTD.

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY

N.T.S.

Drawn by: R.A.

Drawing file:

Revision No.

22626-E

roject No. 22626

Checked by: R.M.

Client Approval

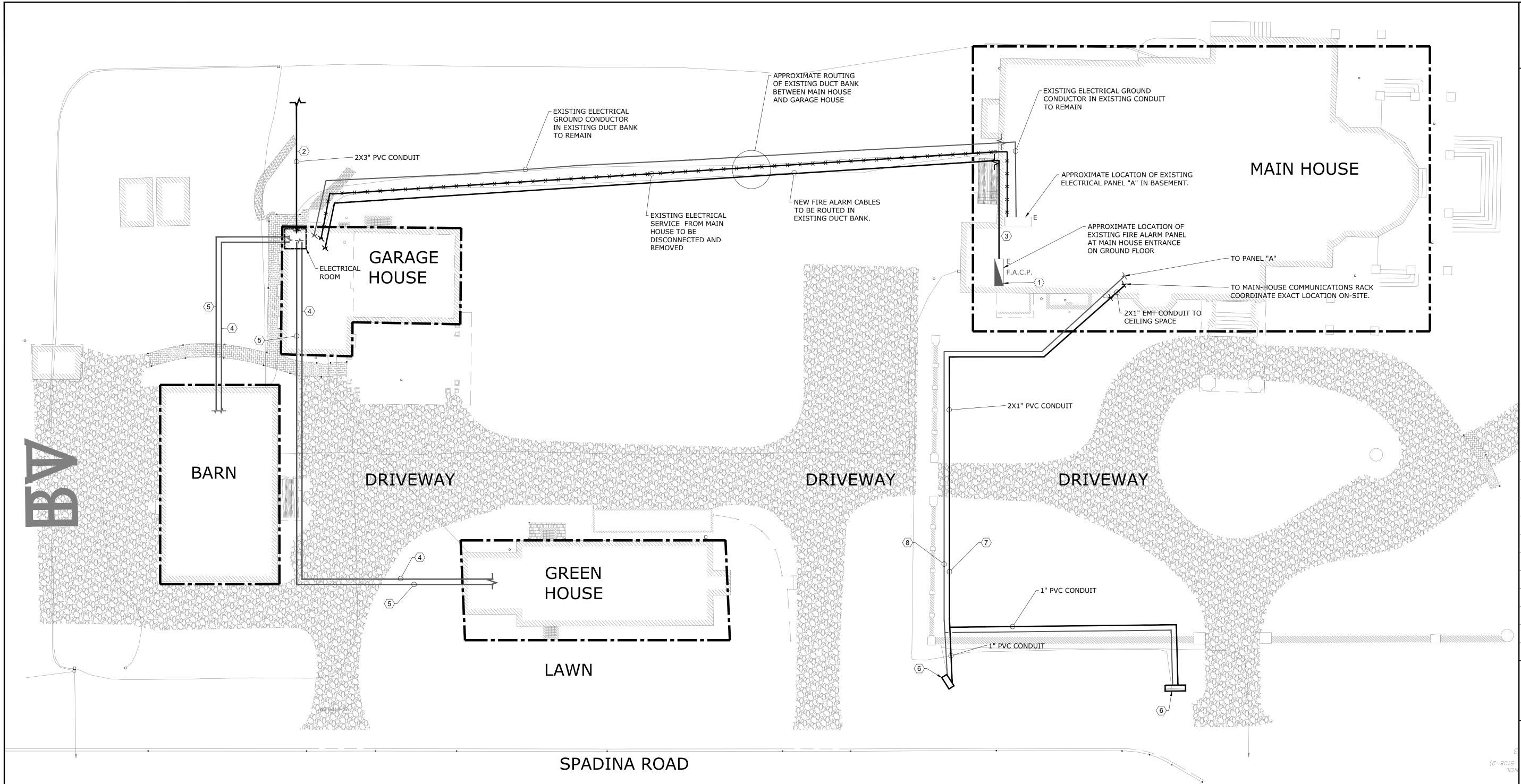
E - 100

Drawing No.

2023/01/25

No. Date Action

+	SUSPENDED LUMINAIRE			
B	EMERGENCY LIGHTS TWIN HEADS C/W BATTERY UNIT		MAT 4SITE ENGIN	EERS
QD	EMERGENCY LIGHTS TWIN HEADS, WALL MOUNTED		620 WILSON AVE., SUITE 320, TOR PHONE: 416-229-6574	AX: 416-22
	SECURITY LEGEND		1	
SYMBOL	DESCRIPTION			
	NEW WORK			
	EXISTING TO REMAIN			•
	EXISTING TO BE DEMOLISHED			
	CCTV SECURITY CAMERA DOME			
	INTRUSION PANEL	Orientation	' Stamp	
CR	CARD READER		and Address:	
ES	ELECTRIC STRIKE	SI	PADINA MUSEUN	J
MS	INTRUSION MOTION SENSOR	GARAGE REHABILITATION		
DC	DOOR CONTACT		TE ACCESSIBILIT 285 SPADINA RD,	Y
REX	REQUEST FOR EXIT		RONTO, ON M5R2V	′5
DO	AUTOMATIC DOOR OPERATOR BY OTHERS	Drawing title		
HC	HANDICAP PUSH PLATE BY OTHERS	GENERAL NOTES, LEGENDS		1DS
KP	INTRUSION KEYPAD	AND SCH	EDULES	



SITE PLAN - POWER & SYSTEMS - MODIFICATION

POWER - GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
- 2. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
- 3. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
- 4. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.
- 5. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
- 6. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
- 7. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
- 8. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- 9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.
- 10. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
- 11. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.

REFERENCE NOTES:

- 1) EXISTING FIRE ALARM PANEL " MIRCOM FX-2000". CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL NECESSARY MODULES TO ACCOMMODATE NEW FIRE ALARM COMING FROM GARAGE HOUSE.
- 2) NEW 120/208V INCOMING SERVICE FROM OVERHEAD HYDRO LINE TO NEW DISTRIBUTION PANEL DP-G IN BASEMENT.
- $|\mathfrak{F}|$ NEW FIRE ALARM CABLING IN EXISTING CONDUITS IN CEILING SPACE TO MAIN
- HOUSE FIRE ALARM PANEL. (4) EXISTING SECURITY CABLING/CONDUITS FROM GARAGE HOUSE INTRUSION PANEL
- TO GREEN HOUSE AND BARN, ARE TO REMAIN. (5) EXISTING POWER CABLING/CONDUITS FROM GARAGE HOUSE MAIN ELECTRICAL
- PANEL TO GREEN HOUSE AND BARN, ARE TO REMAIN. $\langle 6 \rangle$ NEW DIGITAL SGNAGE PROVIDED BY OTHERS. KEEP EXISTING POWER CABLES AND CONDUITS, CONNECT NEW SIGNAGE TO THESE EXISTING CABLES, TERMINATE AS
- $\langle \overline{\gamma} \rangle$ NEW UNDER GROUND COMMUNICATIONS CABLES AND CONDUITS FOR DIGITAL SIGNAE. COORDINATE EXACT ROUTING OUTDOOR AND INSIDE MAIN-HOUSE ON
- $\langle 8 \rangle$ EXISTING POWER CABLES AND CONDUITS FOR DIGITAL SIGNAGE TO REMAIN

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. OF ANY EXKURS OR UMISSIONS.

NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

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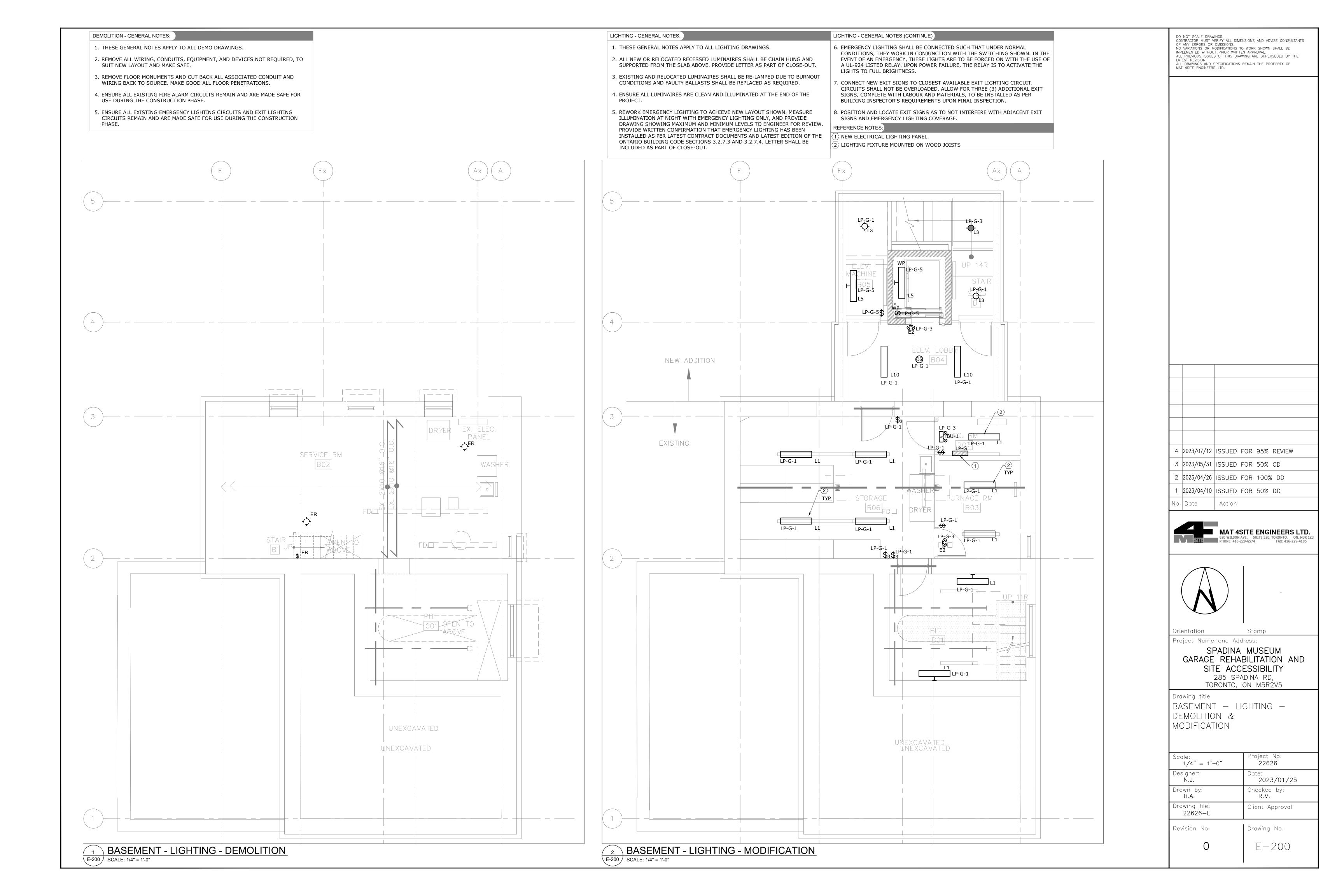
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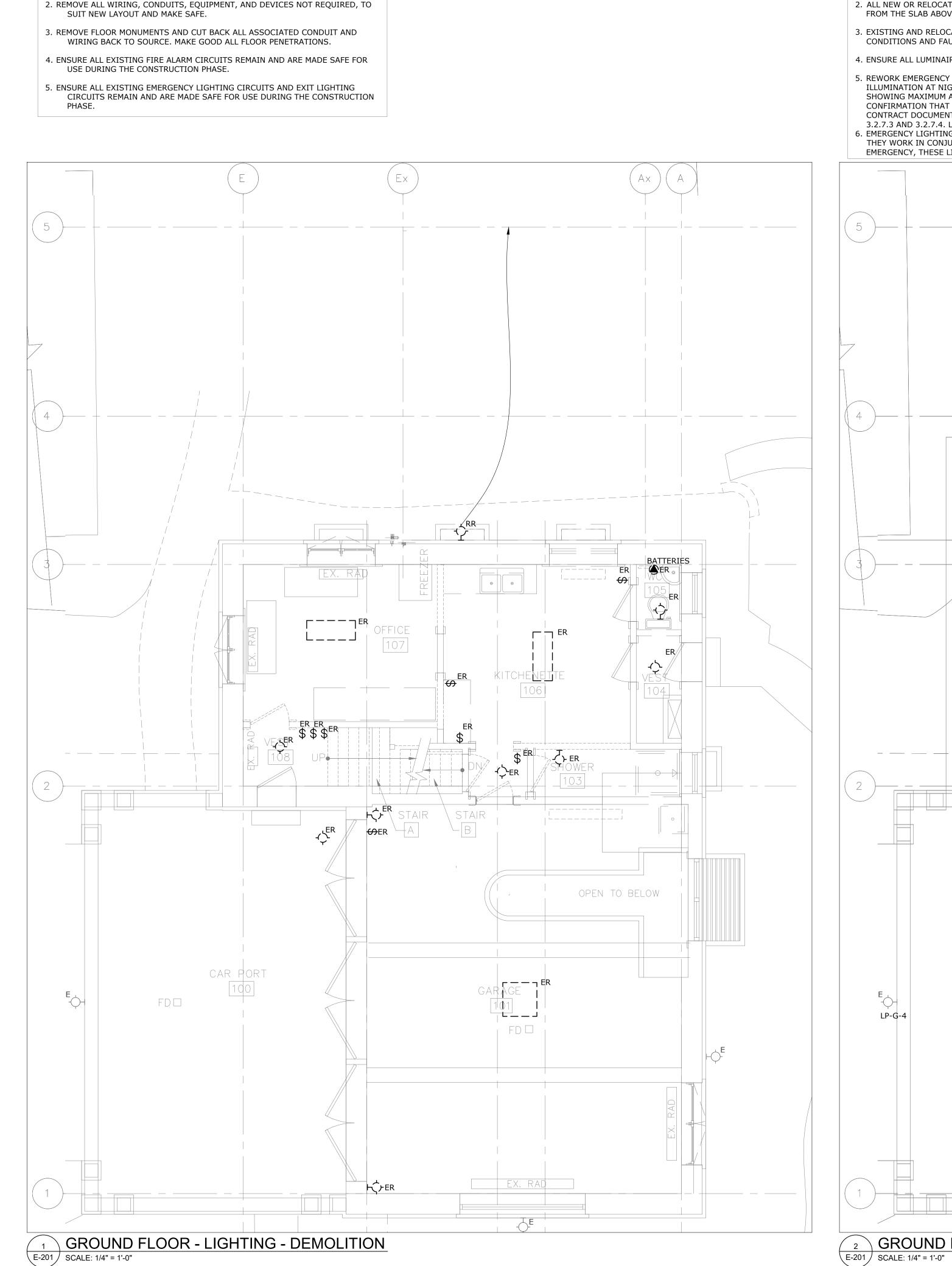
Project Name and Address:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

Drawing title SITE PLAN — ELECTRICAL

roject No. N.T.S. 22626 Designer: 2023/01/25 ırawn by: Checked by: R.A. R.M. Orawing file: Client Approval 22626-E Revision No. Drawing No. E - 101





DEMOLITION - GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.

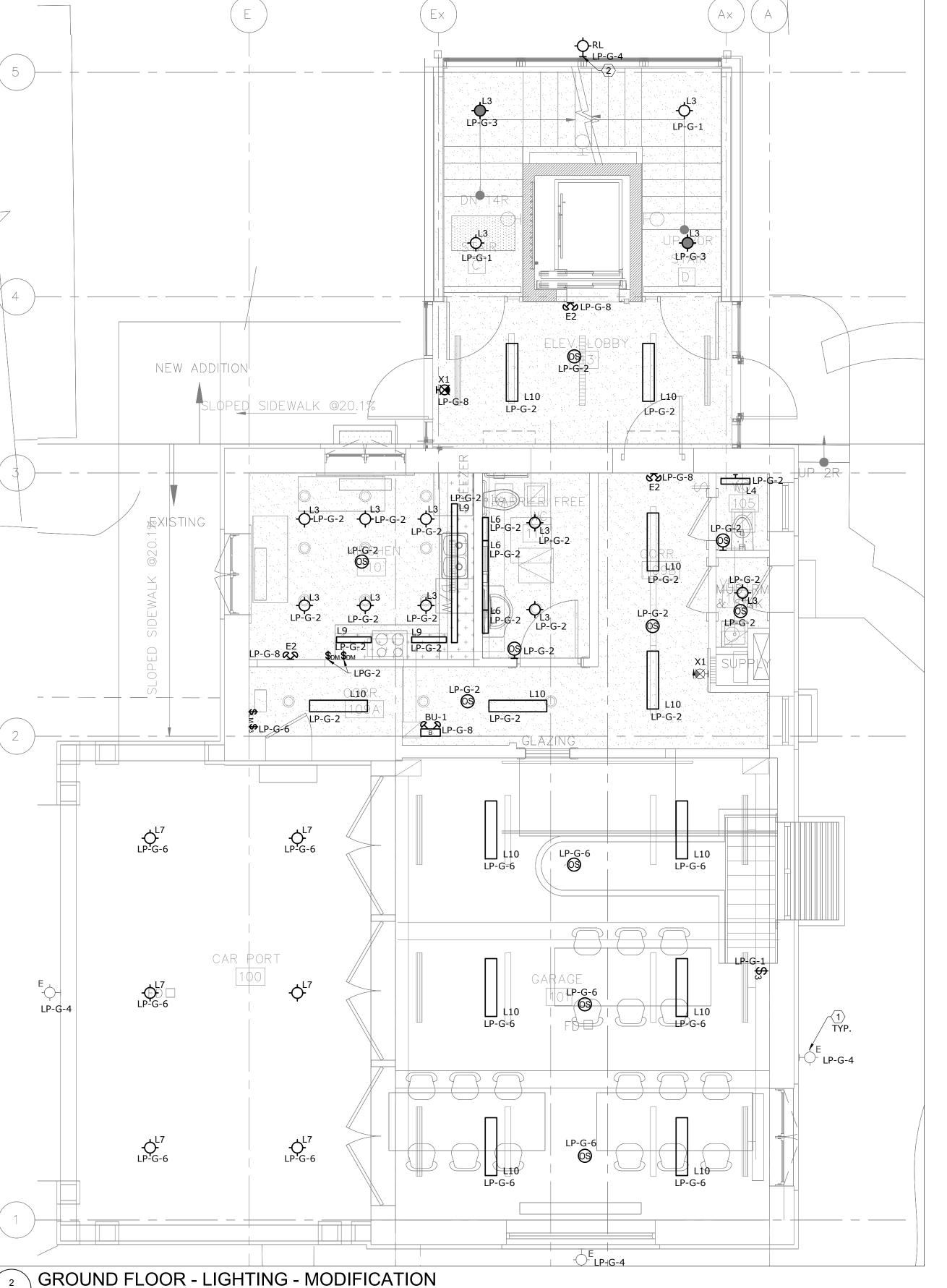
LIGHTING - GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL LIGHTING DRAWINGS.
- 2. ALL NEW OR RELOCATED RECESSED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER AS PART OF CLOSE-OUT.
- 3. EXISTING AND RELOCATED LUMINAIRES SHALL BE RE-LAMPED DUE TO BURNOUT CONDITIONS AND FAULTY BALLASTS SHALL BE REPLACED AS REQUIRED.
- 4. ENSURE ALL LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF THE PROJECT.
- 5. REWORK EMERGENCY LIGHTING TO ACHIEVE NEW LAYOUT SHOWN. MEASURE ILLUMINATION AT NIGHT WITH EMERGENCY LIGHTING ONLY, AND PROVIDE DRAWING SHOWING MAXIMUM AND MINIMUM LEVELS TO ENGINEER FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED AS PER LATEST CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS
- 3.2.7.3 AND 3.2.7.4. LETTER SHALL BE INCLUDED AS PART OF CLOSE-OUT. 6. EMERGENCY LIGHTING SHALL BE CONNECTED SUCH THAT UNDER NORMAL CONDITIONS, THEY WORK IN CONJUNCTION WITH THE SWITCHING SHOWN. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED

- LIGHTING GENERAL NOTES: (CONTINUE)
- RELAY. UPON POWER FAILURE, THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
- 7. CONNECT NEW EXIT SIGNS TO CLOSEST AVAILABLE EXIT LIGHTING CIRCUIT. CIRCUITS SHALL NOT BE OVERLOADED. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS, COMPLETE WITH LABOUR AND MATERIALS, TO BE INSTALLED AS PER BUILDING INSPECTOR'S REQUIREMENTS UPON FINAL INSPECTION.
- 8. POSITION AND LOCATE EXIT SIGNS AS TO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.

REFERENCE NOTES:

- EXISTING LIGHT FIXTURE TO REMAIN. KEEP EXISTING WIRING AND CONDUIT BACK TO PANEL, TERMINATE AS REQUIRED TO NEW LIGHTING PANEL IN BASEMENT. CONNECT TO NEW CIRCUIT AS INDICATED.
- EXISTING LIGHTING FIXTURE IN RELOCATED LOCATION, RE-ROUTE EXISTING WIRES AND CONDUITS TO MATCH NEW LOCATION. CONNECT TO NEW CIRCUIT AS INDICATED



CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. OF ANY ERRORS OR OMISSIONS.

NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL.

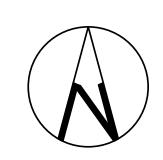
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620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 1Z
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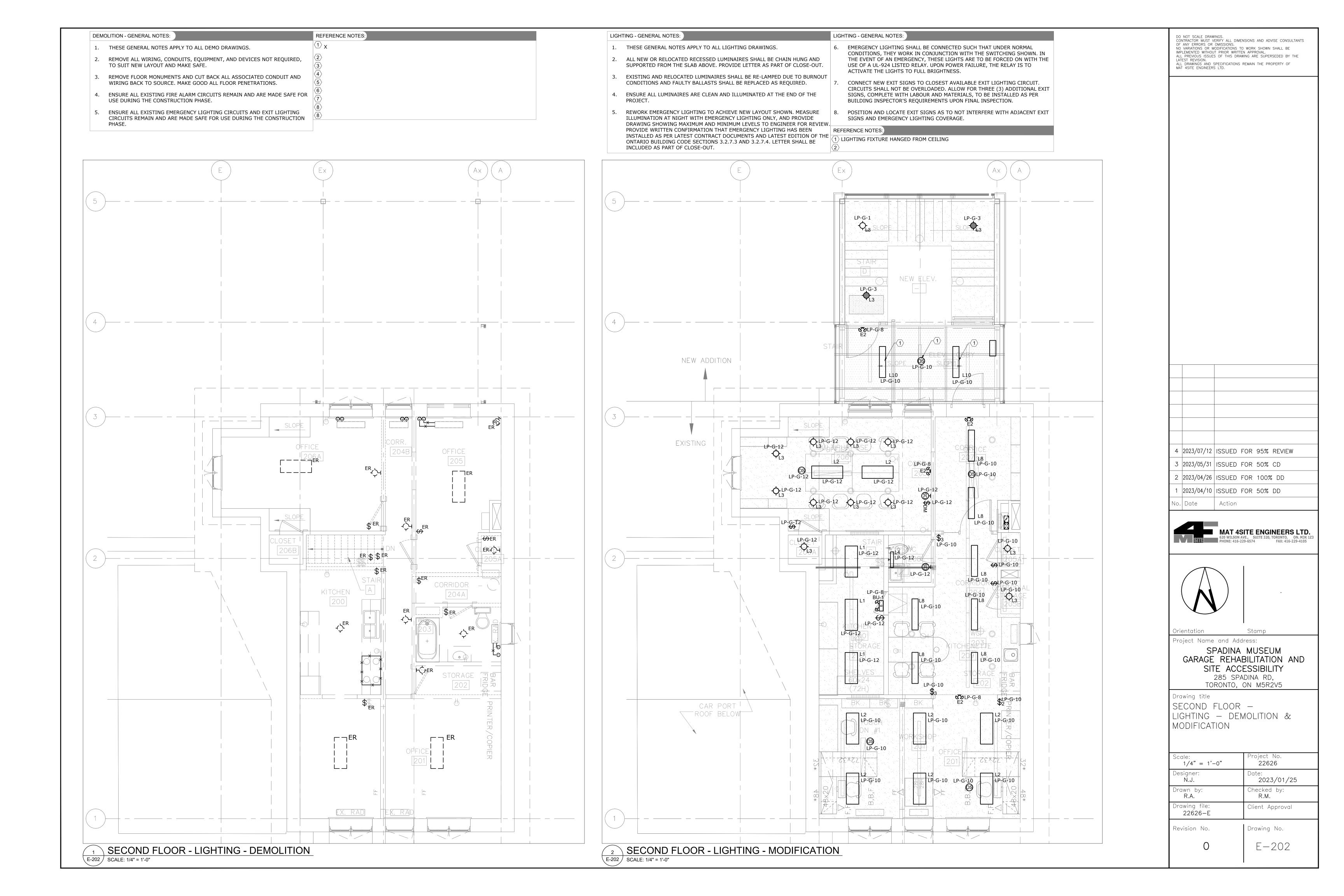


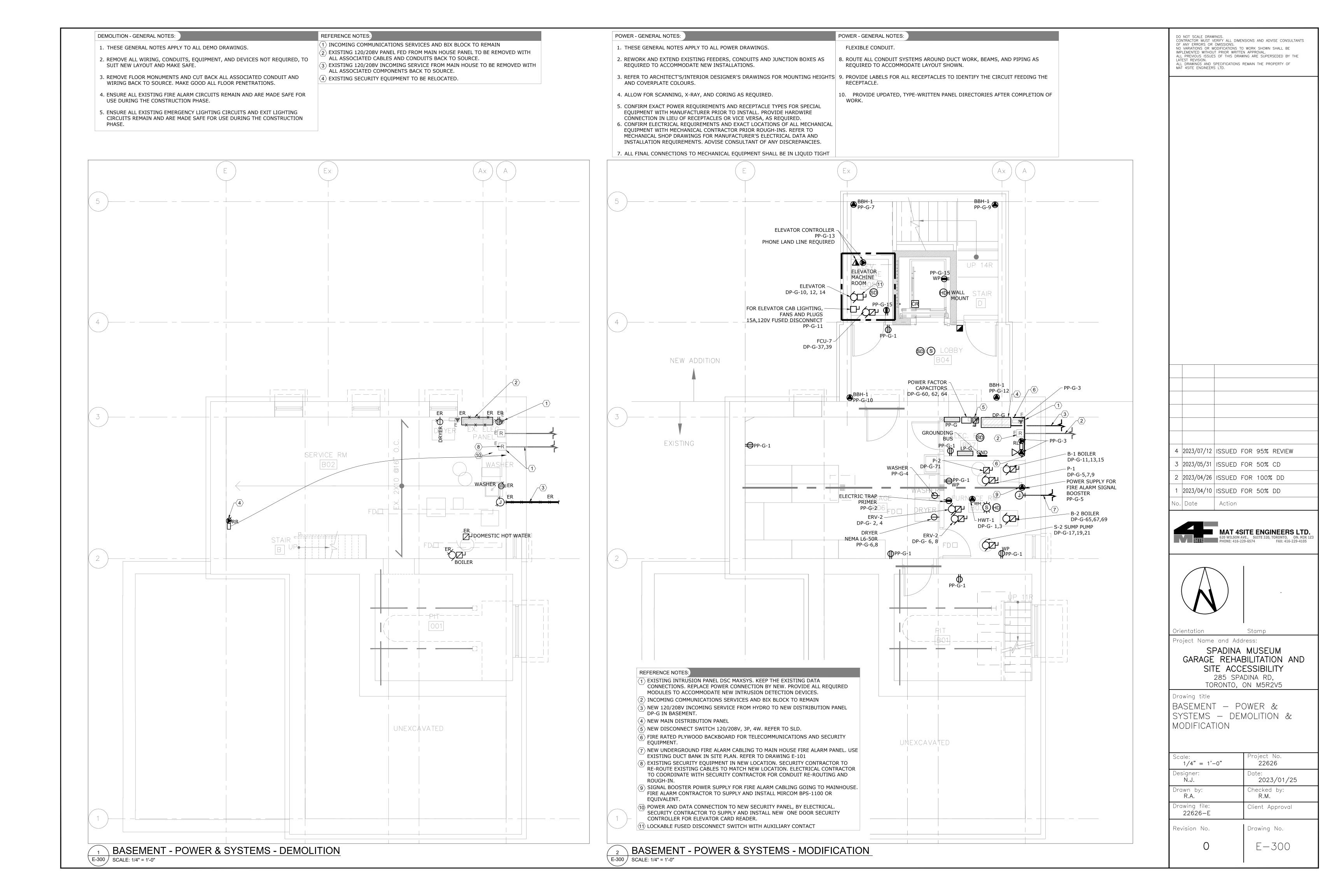
Project Name and Address:

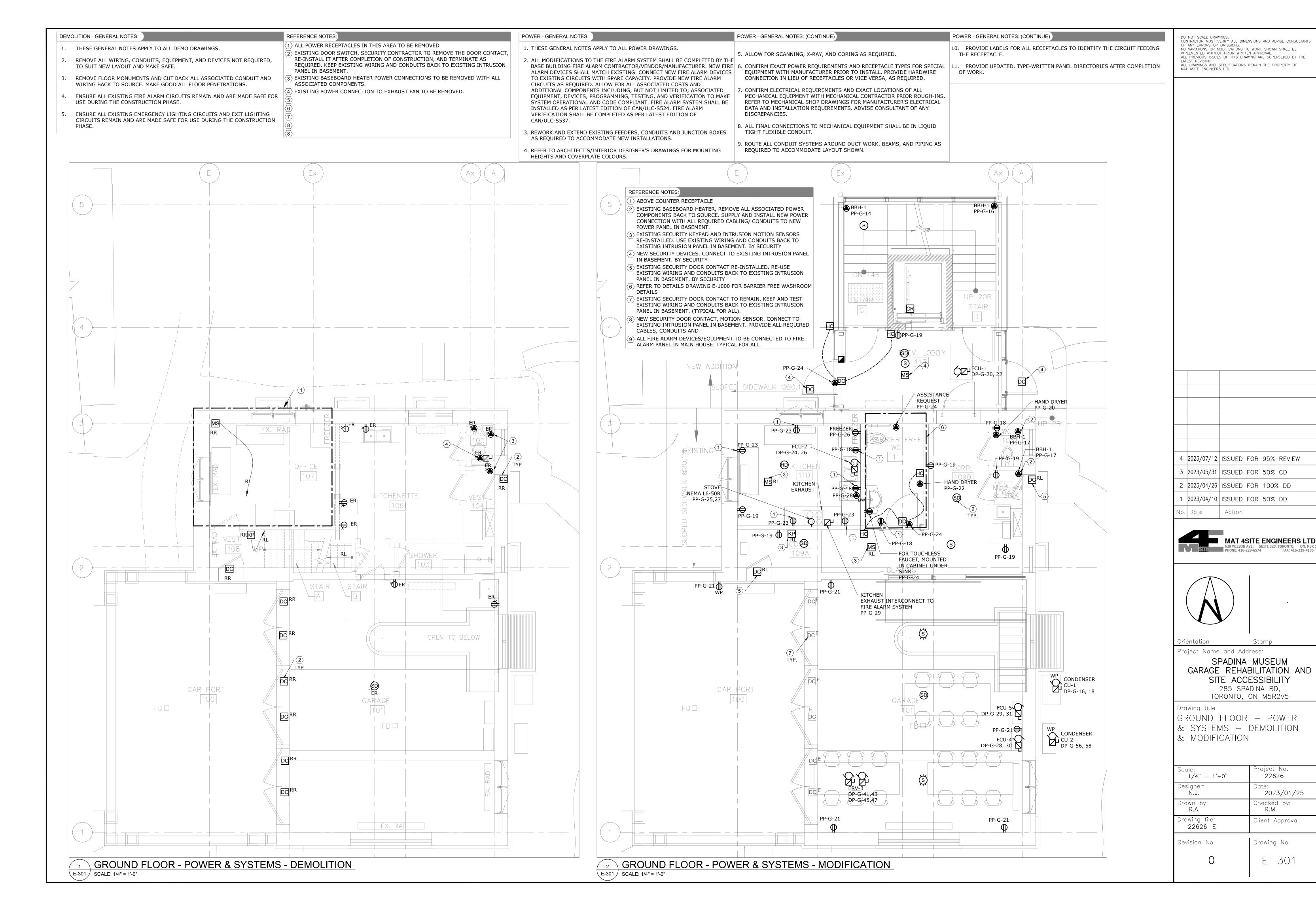
SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title GROUND FLOOR -LIGHTING — DEMOLITION & MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626—E	Client Approval
Revision No.	Drawing No.
0	E-201







DEMOLITION - GENERAL NOTES:

E-302 | SCALE: 1/4" = 1'-0"

- 1. THESE GENERAL NOTES APPLY TO ALL DEMO DRAWINGS.
- 2. REMOVE ALL WIRING, CONDUITS, EQUIPMENT, AND DEVICES NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE.
- 3. REMOVE FLOOR MONUMENTS AND CUT BACK ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS.
- 4. ENSURE ALL EXISTING FIRE ALARM CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION PHASE.
- 5. ENSURE ALL EXISTING EMERGENCY LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS REMAIN AND ARE MADE SAFE FOR USE DURING THE CONSTRUCTION

REFERENCE NOTES:

- $ec{\mathcal{S}}$ EXISTING NETWORK RACK TO REMAIN. KEEP ALL ASSOCIATED COMPONENTS. PROVIDE NEW POWER CONNECTION AS INDICATED ON DRAWING.
- $\stackrel{\langle 2 \rangle}{}$ EXISTING WIRELESS ACCESS POINT TO REMAIN. KEEP ALL ASSOCIATED COMPONENTS.
- 3 EXISTING INTRUSION MOTION SENSOR. SECURITY TO RELOCATE, RE-ROUTE EXISTING WIRING TO MATCH NEW LOCATION. ELECTRICAL TO COORDINATE WITH SECURITY FOR RE-ROUTING OF CONDUITS.
- 1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.

POWER - GENERAL NOTES:

- 2. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE 6. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL 11. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES | EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM
- 3. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.

VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF

4. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.

E-302 SCALE: 1/4" = 1'-0"

- CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.

5. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.

POWER - GENERAL NOTES: (CONTINUE)

- 7. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY
- 8. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- 9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.

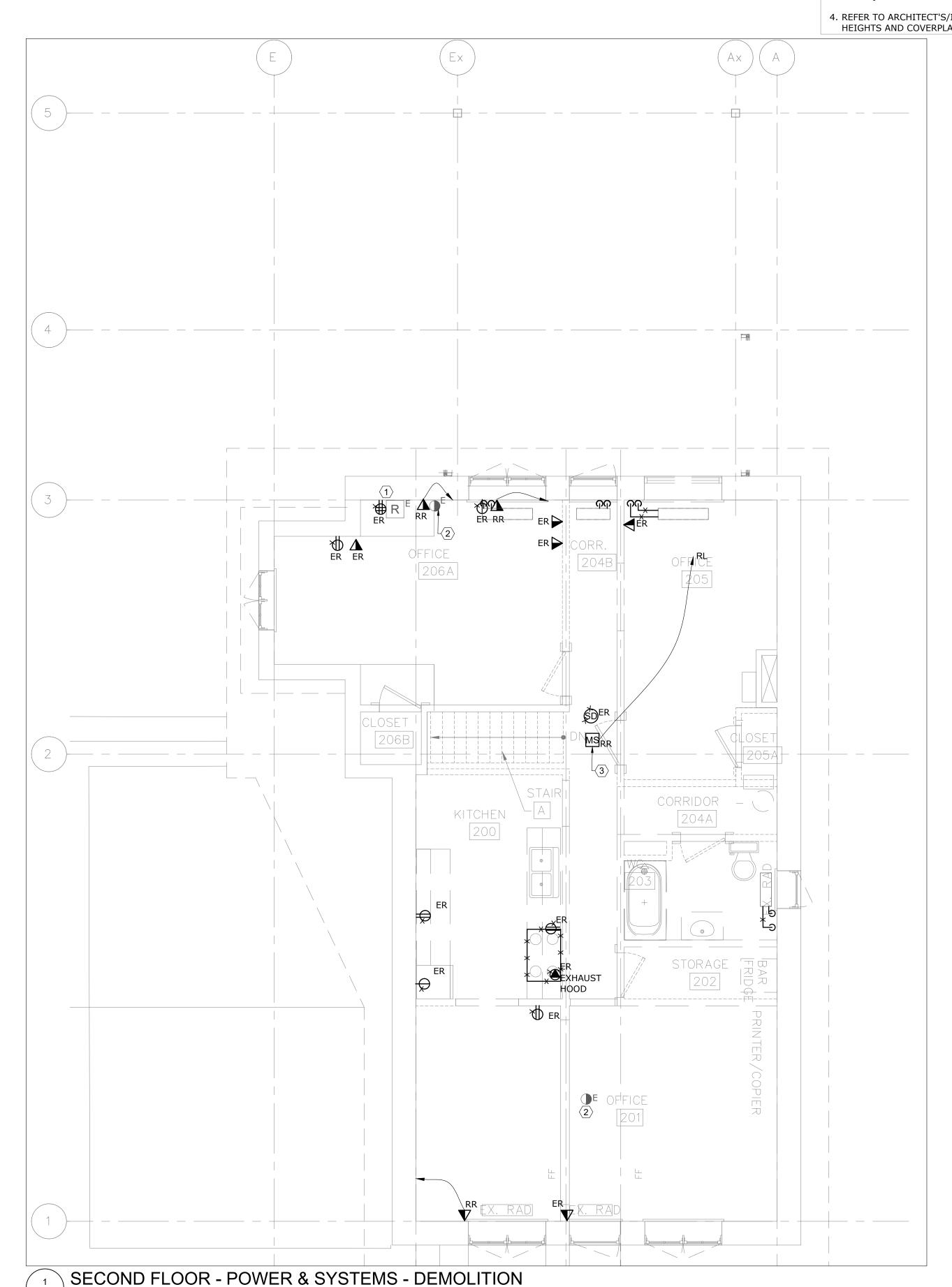
POWER - GENERAL NOTES: (CONTINUE)

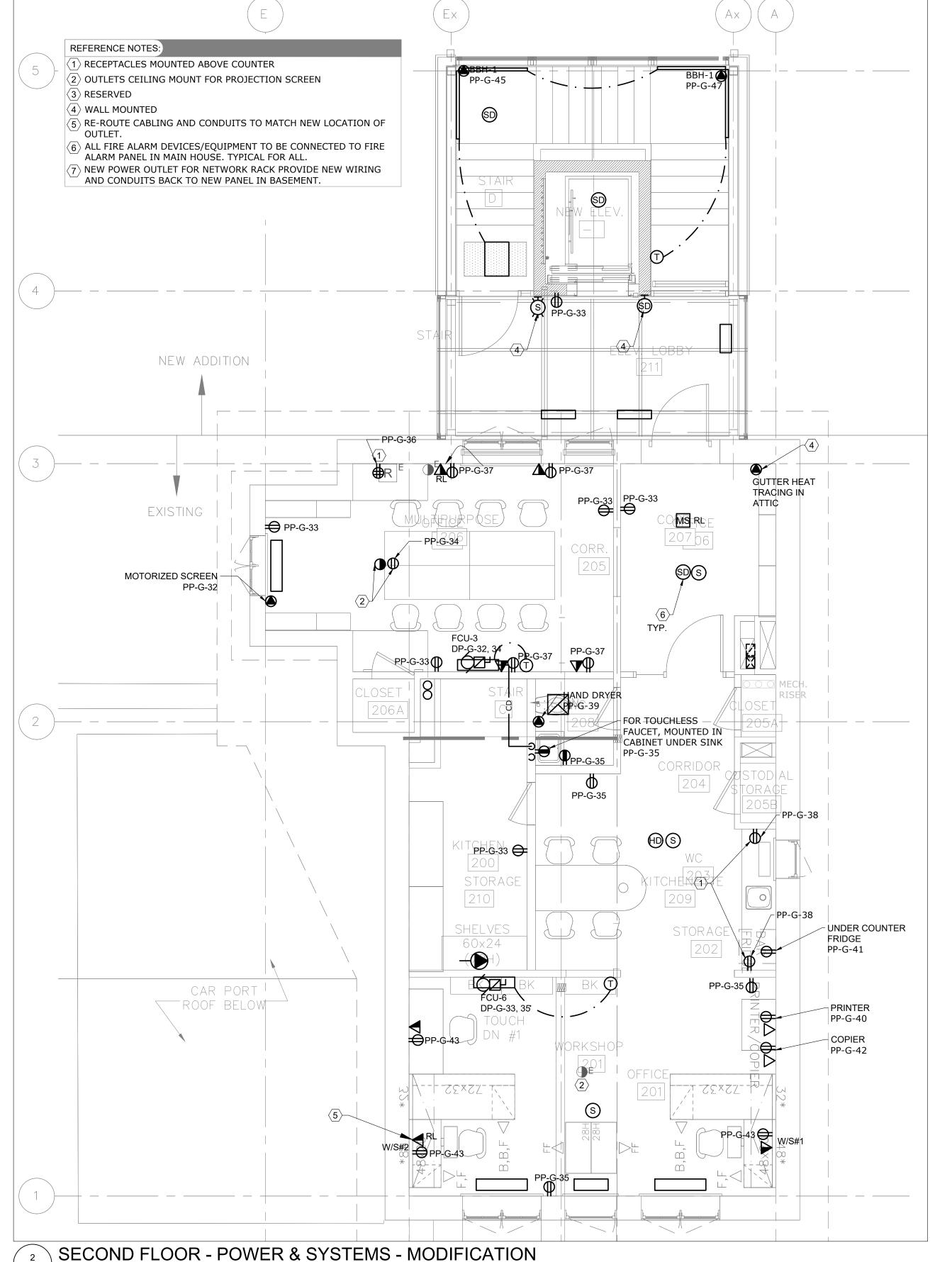
- 10. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
- OF WORK.
- 12. PROVIDE FIRE ALARM TIE-IN TO NEW MAGLOCKS SUCH THAT MAGLOCKS RELEASE UPON ACTIVATION OF ANY FIRE ALARM SIGNAL. MAGLOCKS SHALL ALSO RELEASE UPON ACTIVATION OF LOCAL MANUAL PULL STATION THROUGH HARD WIRED CONNECTION DIRECTLY FROM PULL STATION. PROVIDE TIE-IN TO EXISTING RELEASE/RESET KEYSWITCH LOCATED IN THE XXTH FLOOR ELECTRICAL ROOM BESIDE THE FIRE ALARM PANEL. CO-ORDINATE WITH SECURITY CONTRACTOR. FIRE ALARM VERIFICATION

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. OF ANY ERRORS OR OMISSIONS.

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4 2023/07/12 ISSUED FOR 95% REVIEW 3 2023/05/31 ISSUED FOR 50% CD

2 2023/04/26 ISSUED FOR 100% DD 1 2023/04/10 ISSUED FOR 50% DD



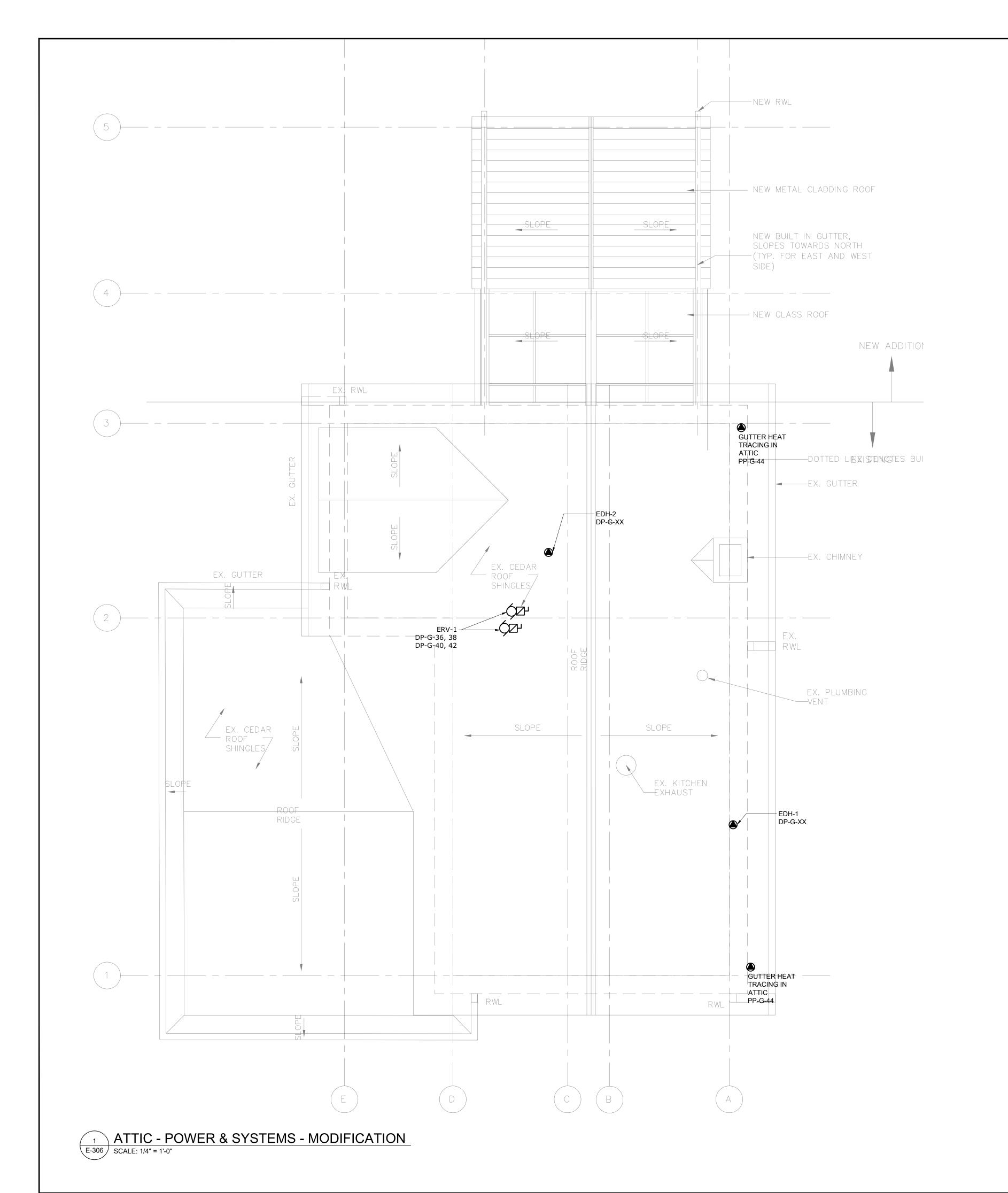


Project Name and Address:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

Drawing title SECOND FLOOR - POWER & SYSTEM - DEMOLITION & MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626—E	Client Approval
Revision No.	Drawing No.
0	E-302



POWER - GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL POWER DRAWINGS.
- 2. ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE COMPLETED BY THE BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING. CONNECT NEW FIRE ALARM DEVICES TO EXISTING CIRCUITS WITH SPARE CAPACITY. PROVIDE NEW FIRE ALARM CIRCUITS AS REQUIRED. ALLOW FOR ALL ASSOCIATED COSTS AND ADDITIONAL COMPONENTS INCLUDING, BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING, AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. FIRE ALARM SYSTEM SHALL BE INSTALLED AS PER LATEST EDITION OF CAN/ULC-S524. FIRE ALARM VERIFICATION SHALL BE COMPLETED AS PER LATEST EDITION OF CAN/ULC-S537.
- 3. REWORK AND EXTEND EXISTING FEEDERS, CONDUITS AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS.
- 4. REFER TO ARCHITECT'S/INTERIOR DESIGNER'S DRAWINGS FOR MOUNTING HEIGHTS AND COVERPLATE COLOURS.
- 5. ALLOW FOR SCANNING, X-RAY, AND CORING AS REQUIRED.
- 6. CONFIRM EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALL. PROVIDE HARDWIRE CONNECTION IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
- . CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR ROUGH-INS. REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURER'S ELECTRICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.
- 8. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- 9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS, AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN.
- 10. PROVIDE LABELS FOR ALL RECEPTACLES TO IDENTIFY THE CIRCUIT FEEDING THE RECEPTACLE.
- 11. PROVIDE UPDATED, TYPE-WRITTEN PANEL DIRECTORIES AFTER COMPLETION OF WORK.

DO NOT SCALE DRAWINGS.
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS
OF ANY ERRORS OR OMISSIONS.
NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE
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No. Date Action

4 2023/07/12 ISSUED FOR 95% REVIEW

3 2023/05/31 ISSUED FOR 50% CD





Project Name and Address:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD,

TORONTO, ON M5R2V5

Drawing title

ATTIC — POWER &

SYSTEMS — MODIFICATION

Scale: 1/4" = 1'-0"	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626—E	Client Approval
Revision No.	Drawing No.
Ο	E-306

ГҮРЕ	VOLT.	LAMP TYPE	DESCRPTION	REMARKS
L1	120 V	W: 38.8W LUMEN:4000LM CT:4000K CRI:80	METALUX NWS SELECTABLE WRAP, 4', SURFACE OR SUSPENDED, CEILING OR WALL MOUNT FIXTURE C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L2	120 V	W: 31.7W LUMEN:4500LM CT:4000K CRI:80	METALUX CGTX PANEL, 2X4' HIGH EFFICACY DRY WALL RECESSED LED, LISTED FOR DAMP LOCATION	
L3	120 V	W: 32W LUMEN:3000LM CT:4000K CRI:90	PORTFOLIO LDS6, 6" ROUND, SHALLOW DOWNLIGHT CEILING RECESSED MOUNT FIXTURE. GALVANIZED STEEL PLASTER FRAME, WITH FROSTED ACRYLIC RING. C/W 6W BATTERY PROVIDE 30 MINUTES LIGHTING FOR EMERGENCY FIXTURES ONLY. REFER TO FLOOR PLANS.	
L4	120 V	W: 20.6W LUMEN:2649LM CT:4000K CRI:82	METALUX NWS SELECTABLE WRAP, 2', CEILING OR WALL SURFACE MOUNT FIXTURE. C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L5	120 V	CT:4000K CRI:80	METALUX SNX LENSED LW, LED STRIPLIGHT 2' WALL SURFACE MOUNT, ROUND FROST LENS.	
L6	120 V	W: 3.5 / 11.5W LUMEN: CT:3000K CRI:80	iO LED CovSelect , 1'&4' LENGTH ARCHITECTURAL COVE LIGHT WITH INTEGRAL DRIVER, 6' LENGTH, LISTED FOR DAMP LOCATIONS. FIELD SELECTABLE LUMEN, 350 /700 LM/FT	
L7	120 V	W: 27.6W LUMEN:3000LM CT:3500K CRI:80	PORTFOLIO LSRS8B EC8B 8L, EXTERIOR 8" ROUND , 8" REFLECTOR, CEILING PENDANT WIDE BEAM, LISTED FOR PROTECTED WET LOCATION WITH COVERED CEILING	
L8	120 V	W: 31.7W LUMEN:4200LM CT:4000K CRI:80	METALUX CGTX PANEL, 1X4' HIGH EFFICACY DRY WALL RECESSED, SURFACE OR PENDANT LED, LISTED FOR DAMP LOCATION	
L9	24 VDC	W:19W/m LUMEN:2000LM /m CT:2700K CRI:90+	LUMICREST LED STRIP LIGHT PRO SERIES, DOTLESS WHITE , 1% DIMMING, C/W AC DIMMABLE HARDWIRED POWER SUPPLY, DRIVERS, AND CONTROLLERS AS REQUIRED	
L10	120 V	W: 35.1W LUMEN:4000LM CT:4000K CRI:80	METALUX - WSL LINEAR 1'X4'. CEILING, SURFACE OR SUSPENDED MOUNT FIXTURE C/W LED LAMPS. SUITABLE FOR DAMP AREAS.	
L11	120 V	W: 51W LUMEN:5797LM CT:4000K CRI:70	LUMARK NFLD-S-C15 NIGHT FALCON SMALL SOLID STATE LED FLOOD LIGHT	
BU-1	120V/24V	W: 144W	LUMACELL RGS SERIES CATALOGUE# RG24S144-2-LD13-AT, WALL MOUNT EMERGENCY BATTERY UNIT COMPLETE WITH MR16 LED 4W DOUBLE REMOTE HEADS AND ASSOCIATED RECEPTACLE	
E1	24V	4W	SINGLE REMOTE EMERGENCY HEAD LUMACELL MR16 LED	
		4W / HEAD		
E2	24V		DOUBLE REMOTE EMERGENCY HEADS LUMACELL MR16 LED.	
X1	24V	2.5W	EDGE-LIT RUNNING MAN PICTOGRAM EXIT SIGN. BEGHELLI: GUIDA SERIES. SINGLE FACE EXIT LIGHT C/W PICTOGRAM, AND NICKEL CADMIUM BATTERIES PROVIDE MINIMUM 30 MINUTES OF EMERGENCY. CAT # GD-RMLRC1-0LR-UDC-120347V-BA DOUBLE FACE EXIT LIGHT C/W PICTOGRAM CAT # GD-RMLRC2-0LR-UDC-120347V-BA CEILING OR WALL, SURFACE OR RECESSED MOUNT.	

	EME	RGENCY LI	GHT SCHE	DULE			
UNIT DESIGNATION	LOCATION OF BATTERY UNIT	VOLTAGE	DEVICE TYPE	QUANTITIES	WATTAGE	TOTAL LOAD (W)	MAXIMU CAPACIT (W)
	ELECTRICAL		BU-1	1	8		
BU-1	ROOM	120/24V	E1	12	4	75	144
	(BASEMENT)		X1	1	2.5		
	CORRIDOR		BU-1	1	8		
BU-1	CORRIDOR (GROUND)	120/24V	E1	12	4	75	144

120/24V

BU-1

1. PROVIDE BREAKER LOCK-ON DEVICES FOR ALL CIRCUIT(S) FEEDING BATTERY UNITS.

(GROUND)

STORAGE

(SECOND)

2. REFER TO DRAWINGS FOR LOCATIONS OF ALL DEVICES. 3. THE ELECTRICAL CONTRACTOR IS TO MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY,

AND SEND DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS [3.2.7.3 AND 3.2.7.4]. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.

X1

2.5

65

4. PROVIDE ALL MOUNTING SHELVES FOR INSTALLATION OF BATTERY UNITS. SIZE TO SUIT.

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4 2023/07/12 ISSUED FOR 95% REVIEW

Orientation Stamp

Project Name and Address:

SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

Drawing title LUMINAIRE SCHEDULE

Project No. 22626 N.T.S. Designer: 2023/01/25 Checked by: R.M. Drawn by: R.A. Drawing file: Client Approval 22626-E Revision No. Drawing No. E-800

						PAN	EL:	DP-G	G .					
120/200V 20 AVAI 15kAIC	MAINS: 600 AMPS													LOCATION: BASEMENT, ELEC ROOM
120/208V, 3Ø, 4W, 15kAIC					MOI	JNTI	NG:	SUR	RFACE				FED FROM:	
DESCRIPTION	DEMAND	LOAD	DEMAND	BKR		CII	RCU	ıTC		BKR	DEMAND	LOAD	DEMAND	DESCRIPTION
DESCRIPTION	FACTOR	(kW)	LOAD (kW)	SIZE				113		SIZE	LOAD (kW)	(kW)	FACTOR	DESCRIPTION
IWT-1	1.00	2.00	2.00	25	1	Α			2	15	0.50	0.55	0.90	ERV-2
OMESTIC HOT WATER	1.00	2.00	2.00	2P	3		В		4	2P	0.50	0.55	0.90	BASEMENT FURNACE ROOM
-1	1.00	0.38	0.38	15	5			С	6	20	1.35	1.50	0.90	ERV-2
ECIRCULATION PUMP	1.00	0.38	0.38		7	Α			8	2P	1.35	1.50	0.90	BASEMENT FURNACE ROOM
	1.00	0.38	0.38	3P	9		В		10	30	2.42	3.46	0.70	
-1	1.00	6.72	6.72	70	11			С	12		2.42	3.46	0.70	ELEVATOR
OILER	1.00	6.73	6.73		13	Α			14	3P	2.42	3.46	0.70	
	1.00	6.73	6.73	3P	15		В		16	35	3.00	3.00	1.00	CU-1
-2	1.00	0.13	0.13	15	17			С		2P	3.00	3.00	1.00	CONDENSER
UMP PUMP	1.00	0.13	0.13		19	Α			20	15	0.25	0.25	1.00	FCU-1
	1.00	0.13	0.13	3P	21		В		22	2P	0.25	0.25	1.00	GROUND FLOOR ELEVATOR LOBBY
P-G	1.00	17.00		200	23			С		15	0.05	0.05	1.00	FCU-2
ANEL	1.00	16.00			25	Α			26	2P	0.05	0.05	1.00	KITCHEN
	1.00	14.00	14.00	3P	27		В	Ш	28	15	0.05	0.05	1.00	FCU-4
CU-5	0.90	0.05	0.05	15	29			С		2P	0.05	0.05	1.00	
	0.90	0.05	0.05	2P	31	Α		Ш	32	15	0.05	0.05	1.00	FCU-3
CU-6	0.90	0.05	0.05	15	33		В	Ш	34	2P	0.05	0.05	1.00	
	0.90	0.05	0.05	2P	35			С		15	0.05	0.05	1.00	ERV-1
CU-7	0.90	0.25	0.23	15	37	Α			38	2P	0.05	0.05	1.00	IN ATTIC
N BASEMENT ELEV. MACH. RM.	0.90	0.25	0.23	2P	39		В		40	20	1.50	1.50	1.00	ERV-1
RV-3	0.80	0.50	0.40	15	41			С		2P	1.50	1.50	1.00	IN ATTIC
	0.80	0.50	0.40	2P	43	Α			44	40	2.30	2.30	1.00	LP-G PANEL
RV-3	0.80	0.50	0.40	15	45		В		46	2P	1.20	1.20	1.00	
	0.80	0.50	0.40	2P	47			С		15	0.55	0.55	1.00	ERV-2
DH-1	1.00	0.40	0.40	15	49	Α			50	2P	0.55	0.55	1.00	
TTIC DUCT HEATER	1.00	0.40	0.40	2P	51		В	╙	52	20	1.50	1.50	1.00	ERV-2
DH-2	1.00	0.40	0.40	15	53			С		2P	1.50	1.50	1.00	
TTIC DUCT HEATER	1.00	0.40	0.40	2P	55	Α			56	25	0.45	0.50	0.90	CU-2
ARN PANEL	1.00	2.50	2.50	30	57		В	╙	58	2P	0.45	0.50	0.90	CONDENSER
	1.00	2.50	2.50	2P	59			С		60		0.00	1.00	
REEN HOUSE PANEL	1.00	5.00	5.00	60		Α			62			0.00	1.00	P.F.C
	1.00	5.00	5.00	2P	63		В	_	64	3P		0.00	1.00	
3-2	1.00	10.08		60	65			С		3P		0.00	1.00	
oiler	1.00	10.08			67	Α			68			0.00	1.00	TVSS
	1.00	10.08		3P	69		В	┞	70	60		0.00	1.00	
lydronic Heating Pump P-2	0.90	0.20	0.18	15	71			С	72	15				
												•		
	DEMAND			49.7							D LOAD A (kV		51.2	
	DEMAND		, ,	52.8							D LOAD B (kW		54.1	
	DEMAND			48.7							D LOAD C (kW	•	50.2	
	TOTAL DEI	MAND	(kW)	151.3					ТОТ	AL CON	NECTED (kW		155.4	
NOTION S														
PPTIONS:							П	FEE	D TIII	B O LI G LI				
ISOLATED GROUND BUS										ROUGH	1005			
DOUBLE NEUTRAL							_		UBLE	TOR				
SPRINKLER PROOF								UII	HER:					
MAIN BREAKER: XXXA-3P														
NEMA 3X14														
V CORRED DHG														
X COPPER BUS ALUMINUM BUS														

						PAN	EL: F	PP-G						
					M	AINS	: 22	5 AN	1PS					LOCATION: BASEMENT, ELEC ROOM
120/208V, 3Ø, 4W, 15kAIC									FACE				FED FROM: DP-G	
DESCRIPTION	DEMAND FACTOR		DEMAND LOAD (kW)	BKR SIZE		CIRC			CUITS		DEMAND LOAD (kW)		DEMAND FACTOR	DESCRIPTION
ASEMENT GENERAL RECEPTACLES	0.80	1.26	1.01	15	1	Α			2	SIZE 15	0.50	0.50	1.00	BASEMENT ELECTRIC TRAP
ASEMENT SECURITY EQUIPMENT	1.00	0.50	0.50	15	3		В		4	15	1.20	1.50	0.80	BASEMENT WASHER
ASEMENT FIRE ALARM SIGNAL BOOSTER	1.00	0.50	0.50	15	5			С	6	40	2.40	3.00	0.80	BASEMENT DRYER
ASEMENT BASEBOARD HEATER BBH-1	1.00	0.60	0.60	15	7	Α			8	2P	2.40	3.00	0.80	
ASEMENT BASEBOARD HEATER BBH-1	1.00	0.60	0.60	15	9		В		10	15	0.60	0.60	1.00	BASEMENT BASEBOARD HEATER BBH-:
ASEMENT ELEV. CAB FAN, LIGHT, PLUG	1.00	0.50	0.50	15	11			С	12	15	0.60	0.60	1.00	BASEMENT BASEBOARD HEATER BBH-:
LEVATOR CONTROLLER	1.00	0.80	0.80	15	13	Α			14	15	0.60	0.60	1.00	GROUND FL. BASEBOARD HEATER BBH
LEV. MACH. RM. + ELEV. SHAFT REC.	1.00	0.40	0.40	15	15		В		16	15	1.20	1.20	1.00	GROUND FL. BASEBOARD HEATER BBH
ROUND FL BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	17			С	18	15	0.58	0.72	0.80	GROUND FL. GFI RECEPTACLES
ROUND FL GENERAL RECEPTACLES	0.80	1.08	0.86	15	19	Α			20	15	0.96	1.20	0.80	GROUND FL. HAND DRYER
ROUND FL GARAGE RECEPTACLES	0.80	0.90	0.72	15	21		В		22	15	0.96	1.20	0.80	GROUND FL. HAND DRYER
ITCHEN COUNTER RECEPTACLES	0.80	0.72	0.58	15	23			С	24	15	0.40	0.50	0.80	GROUND FL. WASHROOM + DO
ITCHEN STOVE	0.80	3.00	2.40	40	25	Α			26	15	0.96	1.20	0.80	KITCHEN FREEZER
	0.80	3.00	2.40	2P	27		В		28	15	1.20	1.50	0.80	KITCHEN DISHWASHER
ITCHEN EXHAUST HOOD	0.80	0.50	0.40	15	29			С	30	15				SPARE
PARE				15	31	Α			32	15	0.64	0.80	0.80	BOARDRM. MOTORIZED SCREEN
ND FLOOR GENERAL RECEPTACLES	0.80	1.08	0.86	15	33		В		34	15	0.64	0.80	0.80	BOARDRM. PROJECTION SCREEN
ND FLOOR GENERAL RECEPTACLES	0.80	0.72	0.58	15	35			С	36	15	1.50	1.50	1.00	BOARDRM. NETWORK RACK
OARD ROOM RECEPTACLES	0.80	1.20	0.96	15	37	Α			38	15	0.96	1.20	0.80	2ND FLOOR COUNTER REC.
ASHROOM HAND DRYER	0.80	1.20	0.96	15	39		В		40	15	0.96	1.20	0.80	2ND FLOOR PRINTER
ND FLOOR U/C FRIDGE	0.80	1.50	1.20	15	41			С	42	15	0.96	1.20	0.80	2ND FLOOR COPIER
ND FLOOR WORK STATION	0.80	0.90	0.72	15	43	Α			44	15	0.70	0.70	1.00	ATTIC HEAT TRACING
ND FL. BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	45		В		46	15				SPARE
ND FL. BASEBOARD HEATER BBH-1	1.00	1.20	1.20	15	47			С	48	15				SPARE
FH-1	1.00	1.50	1.50	20	49	Α			50	15				SPARE
DH-1	1.00	0.80	0.80	15	51		В		52	15				SPARE
DH-2	1.00	1.00	1.00	15	53			С	54	15				SPARE
PACE					55	Α			56					SPACE
PACE					57		В		58					SPACE
PACE					59			С	60					SPACE
PACE					61	Α			62					SPACE
PACE					63		В		64					SPACE
PACE					65			С	66					SPACE
PACE					67	Α			68					SPACE
PACE					69		В		70					SPACE
PACE					71			С	72					SPACE
	DEMAND	LOAD A	(kW)	16.6					CON	NECTE	D LOAD A (kV	V)	19.5	
	DEMAND I	LOAD B	(kW)	15.2					CON	NECTE	D LOAD B (kV	V)	17.7	
	DEMAND I	LOAD C	(kW)	13.6					CON	NECTE	D LOAD C (kV	V)	15.4	
	TOTAL DEI	MAND	(kW)	45.4					TOT	AL CON	NECTED (kW	<u>'</u>)	52.6	
PTIONS:														
ISOLATED GROUND BUS										ROUGH	LUGS			
DOUBLE NEUTRAL									UBLE	TUB				
SPRINKLER PROOF								OTH	HER:					
MAIN BREAKER: XXXA-3P														
NEMA 3X14														
COPPER BUS														
ALUMINUM BUS														

					P/	ANE	L: LI	P-G					
120/208V, 1Ø, 3W, 10 kAIC					MAI	NS:	60 /	AMPS					LOCATION: BASEMENT, ELEC. ROOM
120/208V, 1Ø, 3W, 10 KAIC				M	OUN	TIN	G: S	URFA	CE				FED FROM: DP-G
DESCRIPTION	DEMAND	LOAD	DEMAND	BKR		CID	CUIT	ΓC	BKR	DEMAND	LOAD	DEMAND	DESCRIPTION
DESCRIPTION	FACTOR	(kW)	LOAD (kW)	SIZE		CIR	CUII	13	SIZE	LOAD (kW)	(kW) FACTOR		DESCRIPTION
BASEMENT + STAIR LIGHTING 1.00 0.60 0.60 15 1								2	15	0.60	0.60	1.00	GROUND FLOOR LTG.
BASEMENT+ STAIR EMERGENCY LIGHTING	1.00	0.60	0.60	15	3		В	4	15	0.12	0.12	1.00	EXTERIOR LTG.
ELEVATOR SHAFT AND MACH. RM. LTG.	1.00	0.10	0.10	15	5	Α		6	15	0.40	0.40	1.00	GARAGE LTG.
SPARE				15	7		В	8	15	0.30	0.30	1.00	GROUND+2ND FL. EMERGENCY LTG.
SPARE				15	9	Α		10	15	0.60	0.60	1.00	2ND FLOOR LTG.
SPARE				15	11		В	12	15	0.50	0.50	1.00	2ND FLOOR LTG.
SPACE					13	Α		14					SPACE
SPACE					15		В	16					SPACE
SPACE					17	Α		18					SPACE
SPACE					19		В	20					SPACE
SPACE					21	Α		22					SPACE
SPACE					23		В	24					SPACE
	DEMAND L	OAD A	(kW)	2.3				CON	INECTE	D LOAD A (kV	V)	2.3	
	DEMAND L	OAD B	(kW)	1.5				CON	INECTE	D LOAD B (kW	V)	1.5	
	TOTAL DEN	MAND (kW)	3.8				TOT	AL CON	NECTED (kW)	3.8	
OPTIONS:													
☐ ISOLATED GROUND BUS] FEE	D THRO	UGH LUGS			
DOUBLE NEUTRAL] DOI	JBLE TU	В			
								OTH	IER:				
MAIN BREAKER: XXXA-3P								1. A	LL BREA	KERS FOR EN	/IERGEN	ICY AND NI	GHT LIGHTING ARE TO BE LOCKED ON.
☐ NEMA 3X14													
ALUMINUM BUS													
MAIN LUGS ONLY													

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3 2023/05/31 ISSUED FOR 50% CD

 1
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MAT 4SITE ENGINEERS LTD.
620 WILSON AVE., SUITE 320, TORONTO, ON. M3K 1Z3
PHONE: 416-229-6574 FAX: 416-229-4105

Orientation Stamp

Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title
PANEL SCHEDULES

Scale:
N.T.S.

Designer:
N.J.

Drawn by:
R.A.

Drawing file:
22626-E

Revision No.

Project No.
22626

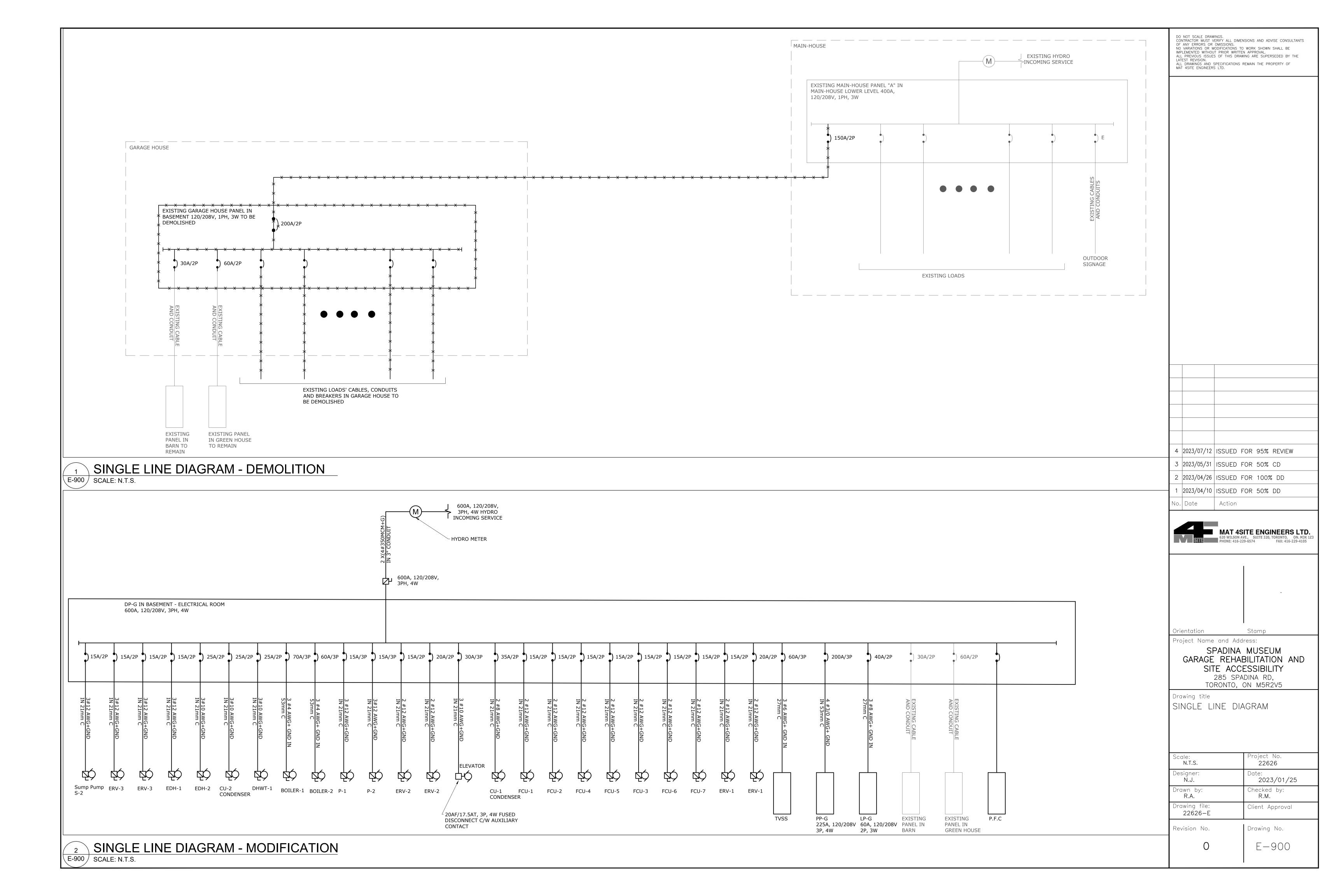
Date:
2023/01/25

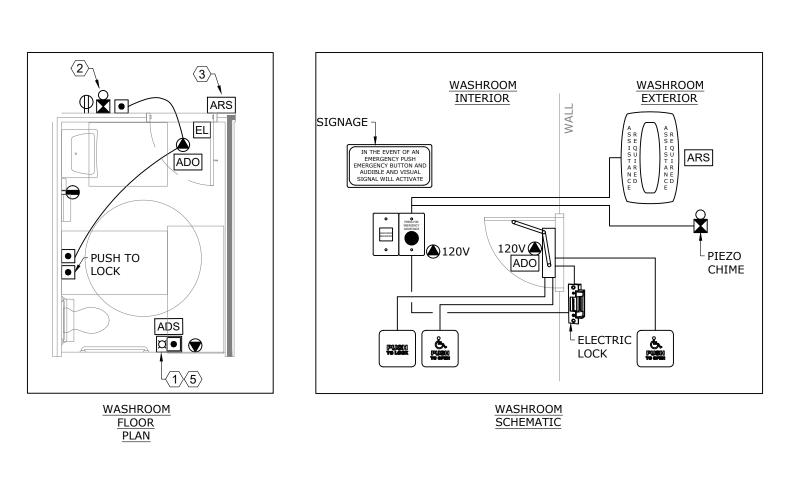
Checked by:
R.M.

Client Approval

Drawing No.

E-801





KEY NOTES: 1) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE UNIVERSAL WASHROOM. VISUAL SIGNALING DEVICE TO ACTIVATE WHEN EMERGENCY BUTTON IS PRESSED. VISUAL SIGNAL TO REMAIN ON WHILE PUSH BUTTON IS PRESSED. PUSH BUTTON TO BE MUSHROOM STYLE AND LATCHING STYLE, AND TO BE TWIST-TO-RELEASE TYPE TO ALLOW FOR RELEASE OF AUDIO AND VISUAL SIGNALS AFTER OCCUPANT HAS BEEN ASSISTED. EMERGENCY PUSH BUTTON IS TO ILLUMINATE ASSISTANCE REQUIRED SIGN AND ACTIVATE PIEZO CHIME OUTSIDE OF WASHROOM. COMBINATION PUSH BUTTON AND VISUAL SIGNAL DEVICE TO BE MOUNTED ON STAINLESS STEEL FACEPLATE.

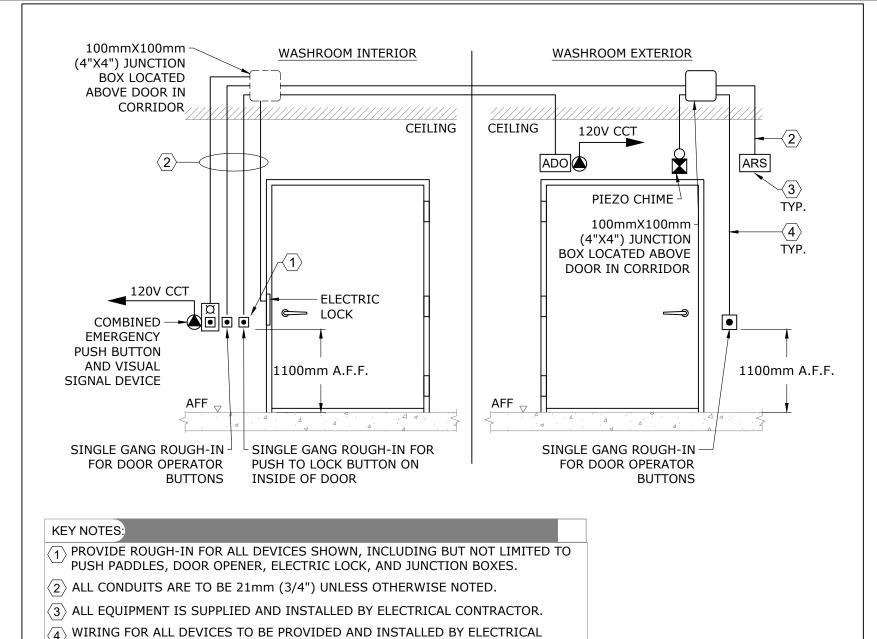
VISUAL SIGNALING DEVICE TO BE LED LIGHT. COMBINATION DEVICE TO BE 24VDC FOR EASY INTEGRATION WITH WASHROOM ELECTRIC LOCK. ELECTRONIC LOCK TO BE DISABLED UPON ACTIVATION OF EMERGENCY PUSH BUTTON. PUSH BUTTON IS TO NOT OPEN DOOR WHEN EMERGENCY PUSH BUTTON IS PRESSED. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT PRIOR TO ORDERING.

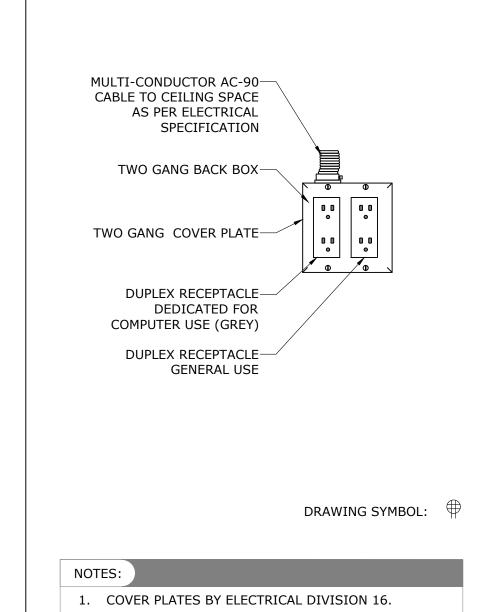
- > ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PIEZO CHIME OUTSIDE OF WASHROOM. THE SOUND PRESSURE LEVEL TO BE 82DBA AT 3 METERS OUTSIDE OF WASHROOM. CHIME TO BE 24VDC. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO ORDERING.
- $\overline{\mathfrak{Z}}$ ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL "ASSISTANCE REQUIRED SIGN". COMPLETE WITH WHEELCHAIR GRAPHIC SIGNAGE OUTSIDE OF WASHROOM. SIGN TO BE 24VDC. SHOP DRAWINGS TO BE SUBMITTED PRIOR TO ORDERING. SELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, POWER
- IN CONDUIT. EN ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A LAMICOID SIGN ABOVE THE COMBINATION EMERGENCY PUSH BUTTON. THE LAMICOID IS TO BE READ "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE". LAMICOID LETTERS TO BE 25mm HIGH WITH 5mm STROKE. SHOP DRAWING TO

BE SUBMITTING PRIOR TO ORDERING.

SUPPLIES, AND CONNECTIONS REQUIRED FOR UNIVERSAL WASHROOM. ALL WIRING TO BE

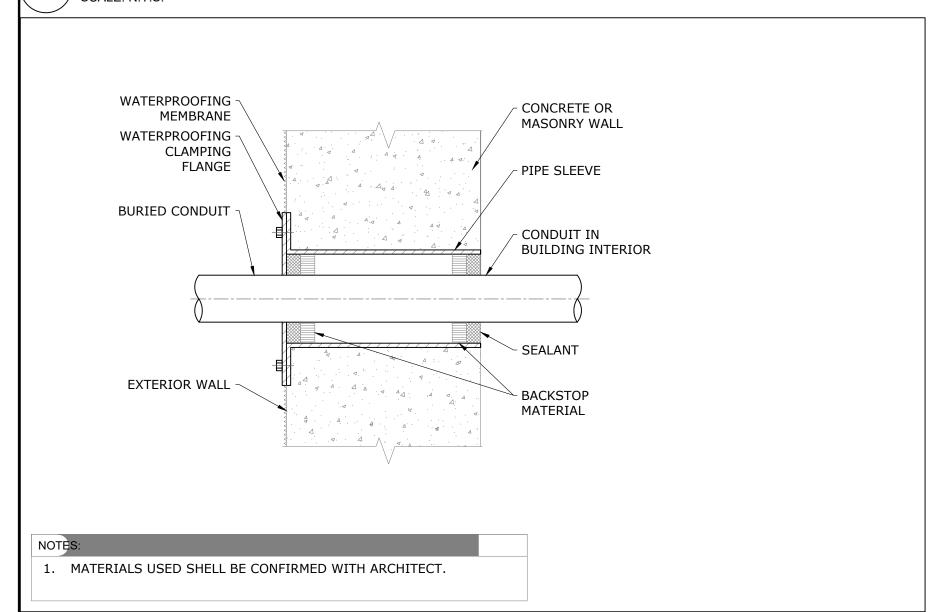
6 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL 24VDC POWER SUPPLY IN A SEPARATE JUNCTION BOX. POWER SUPPLY TO HAVE A 120V INPUT. POWER SUPPLY TO HAVE SUFFICIENT CAPACITY TO POWER ALL EMERGENCY CALL SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO, AUDIBLE SIGNALS, VISUAL SIGNALS, AND ELECTRONIC LOCK DOOR RELEASE. POWER SUPPLY TO HAVE 50% SPARE CAPACITY FOR FUTURE USE.





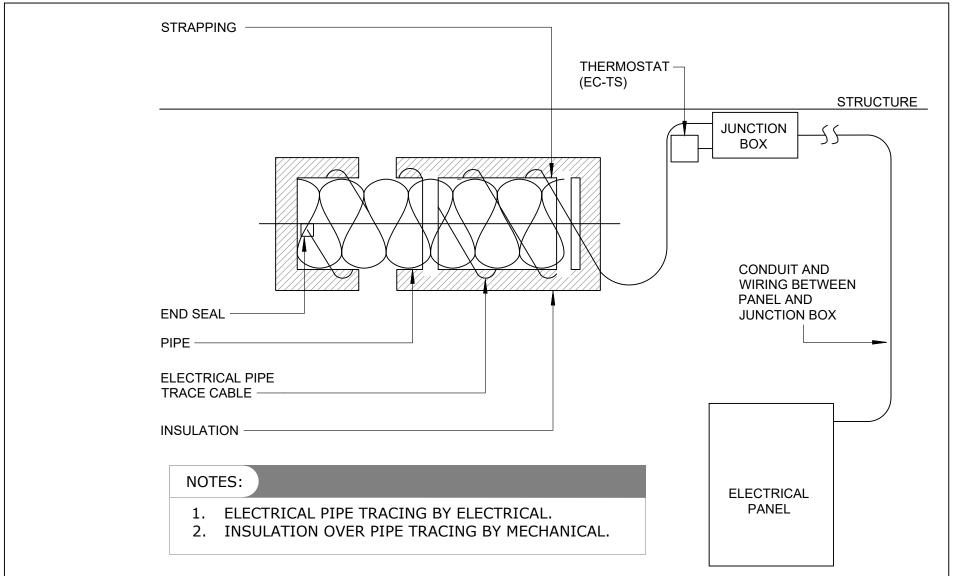
QUAD POWER OUTLET

UNIVERSAL WASHROOM SCHEMATIC AND FLOOR PLAN E-1000 / SCALE: N.T.S.



BURIED CONDUIT PENETRATION THROUGH EXTERIOR WALL DETAIL

UNIVERSAL WASHROOM DOOR DETAIL E-1000 SCALE: N.T.S.



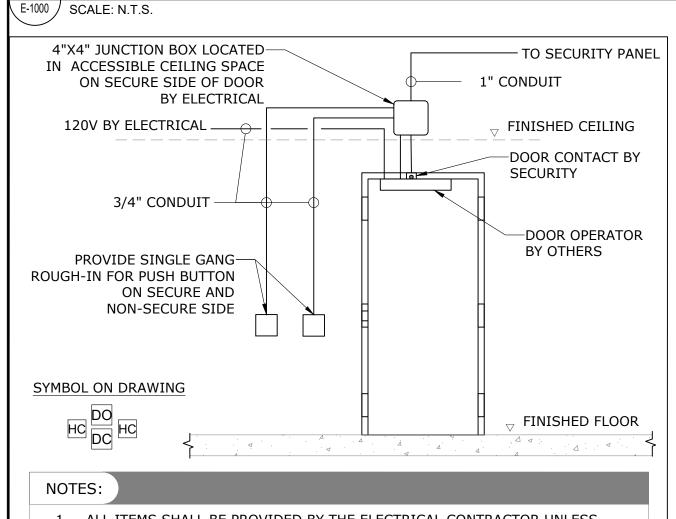
CAT6 CABLE FOR DATA BY **ELECTRICAL** CAT6 CABLE FOR VOICE BY ELECTRICAL ~ 35 mm (1-1/4") CONDUIT TO ACCESSIBLE CEILING SPACE (BY ELECTRICAL) - DECORA INSERT (COLOR TO MATCH ELECTRICAL) EIGHT POSITION DATA OUTLET EIGHT POSITION VOICE OUTLET - EIGHT POSITION DATA OUTLET DOUBLE GANG BACK BOX AND COVER PLATE (BY ELECTRICAL) **DUPLEX RECEPTACLE (BY** OUTLET COMPLETE WITH -SYMBOL ON DRAWING BARRIER (BY ELECTRICAL) NOTES:

E-1000 / SCALE: N.T.S.

1. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. 2. REQUIREMENTS SHOWN SHALL ALSO BE APPLICABLE FOR FLOOR MOUNT, FURNITURE MOUNT

AND CEILING MOUNT OUTLET LOCATIONS. 3. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS

6 TELE COMMUNICATION OUTLETS E-1000 / SCALE: N.T.S.

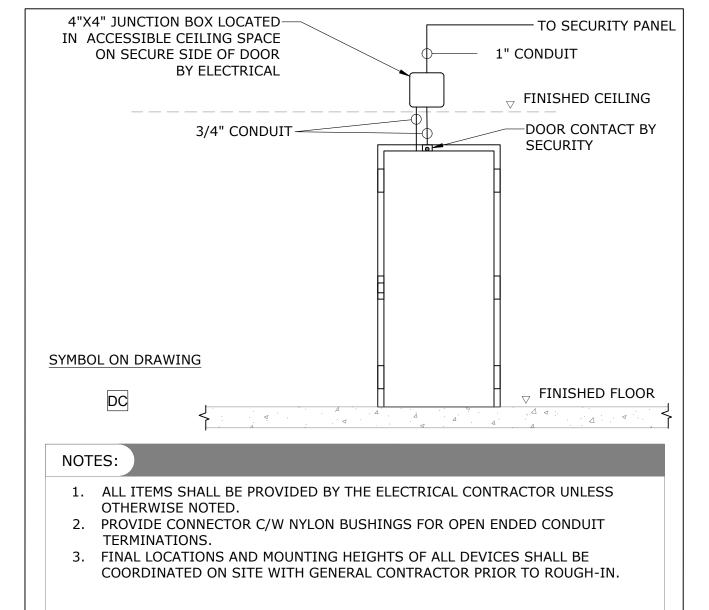


1. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. 2. PROVIDE CONNECTOR C/W NYLON BUSHINGS FOR OPEN ENDED CONDUIT TERMINATIONS. 3. FINAL LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. 4. AUTOMATIC DOOR OPERATOR PUSH PADDLES SHALL BE LOCATED A MINIMUM

OF 600mm AND MAXIMUM OF 1500mm AWAY FROM THE DOOR SWING TO THE

SINGLE DOOR ROUGH-IN - C/W ADO E-1000 / SCALE: N.T.S.

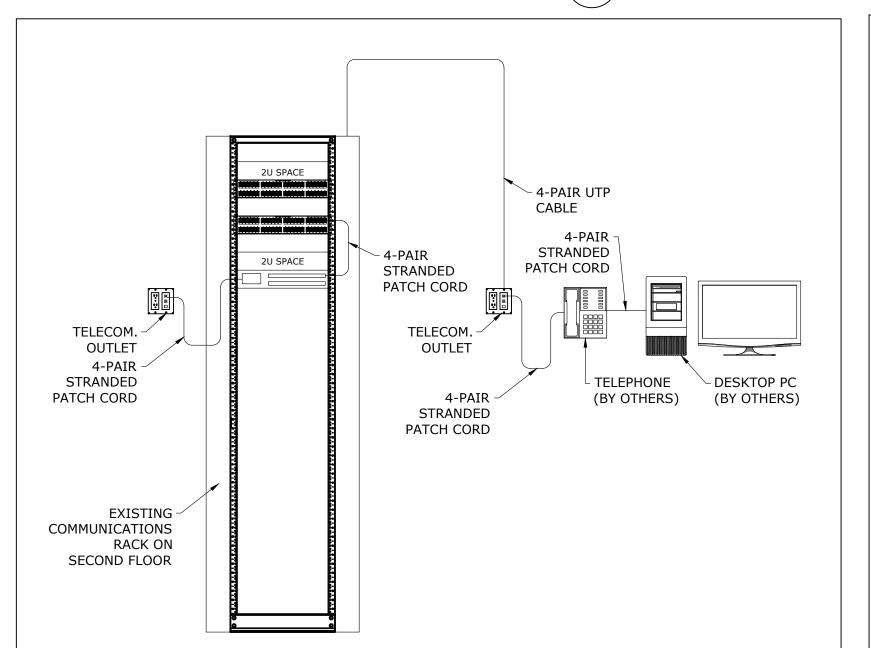
CENTER OF THE DEVICE.



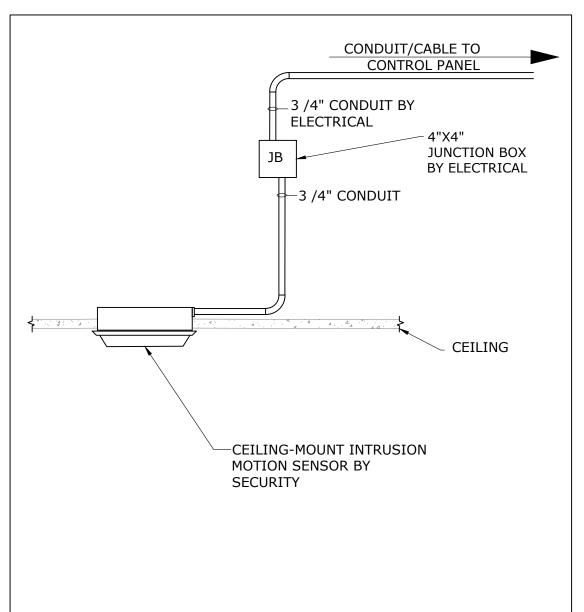
E-1000 / SCALE: N.T.S.

HEAT TRACE INSTALLATION

SINGLE DOOR ROUGH-IN - DOOR CONTACT 〔E-1000 / SCALE: N.T.S.







TYPICAL MOTION SENSOR DETAIL CEILING MOUNT APPLICATION

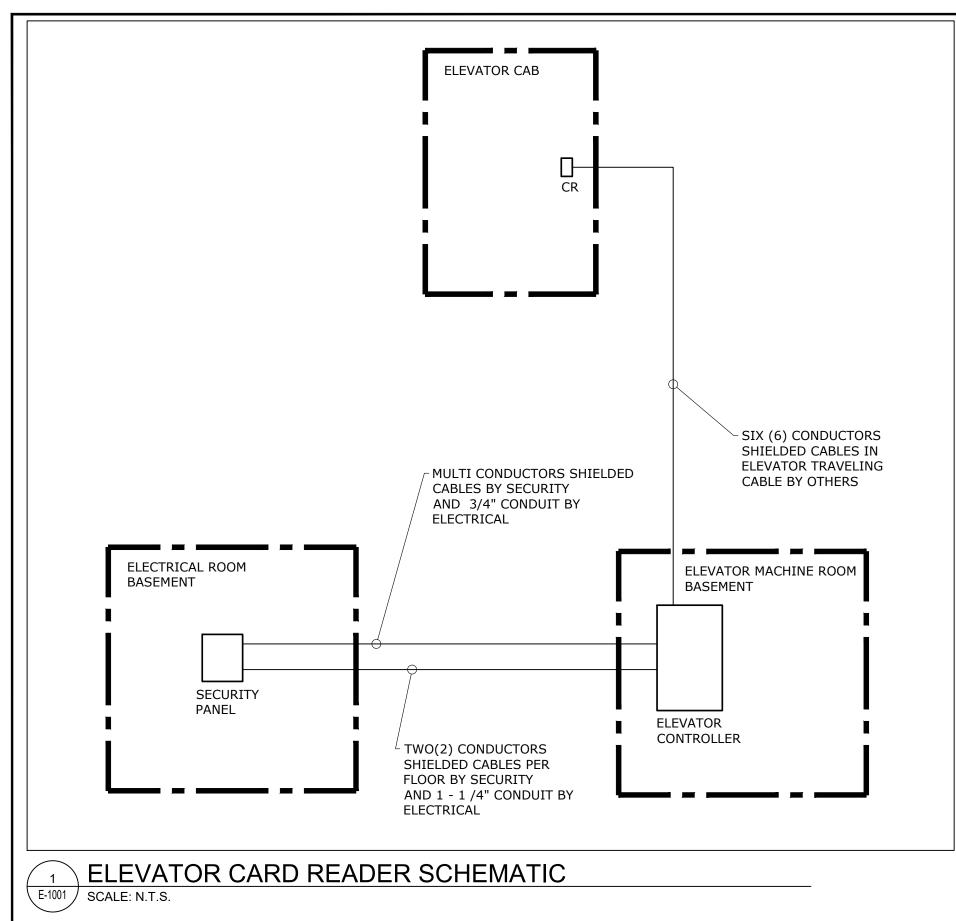
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ILL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MAT 4SITE ENGINEERS LTD

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Project Name and Address: SPADINA MUSEUM GARAGE REHABILITATION AND SITE ACCESSIBILITY 285 SPADINA RD, TORONTO, ON M5R2V5

Drawing title DETAILS

oject No. N.T.S. 22626 2023/01/25 ırawn by: Checked by: R.A. R.M. Orawing file: Client Approval 22626-E Revision No. Drawing No. E - 1000



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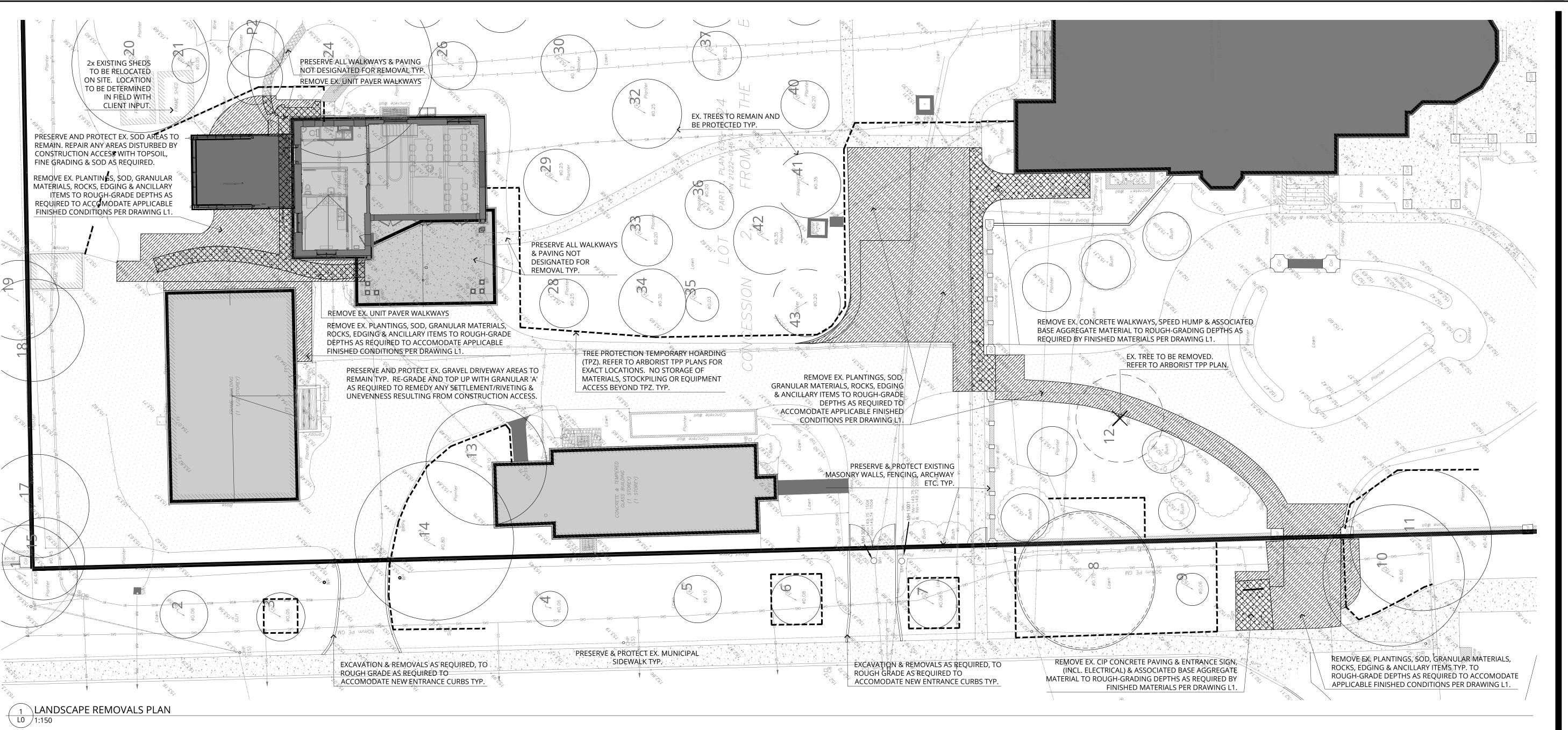
Stamp Orientation

Project Name and Address:

SPADINA MUSEUM
GARAGE REHABILITATION AND
SITE ACCESSIBILITY
285 SPADINA RD,
TORONTO, ON M5R2V5

Drawing title DETAILS

Scale: N.T.S.	Project No. 22626
Designer: N.J.	Date: 2023/01/25
Drawn by: R.A.	Checked by: R.M.
Drawing file: 22626—E	Client Approval
Revision No.	Drawing No.
0	E-1001



CONTRACTOR IS RESPONSIBLE FOR SECURING/CONFIRMING AND MAINTAINING ALL LOCATES PRIOR TO BEGINNING SITE WORKS & REMOVALS.

CONTRACTOR TO CONFORM TO ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO CITY REGULATIONS FOR ROAD OCCUPANCY & MOL. REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SITE SIGNAGE & TRAFFIC

CONTRACTOR TO CONFIRM SITE CONDITIONS PRIOR TO BIDDING & REPORT ANY DISCREPANCIES TO THE CONSULTANT.

LEGEND:

MANAGEMENT.

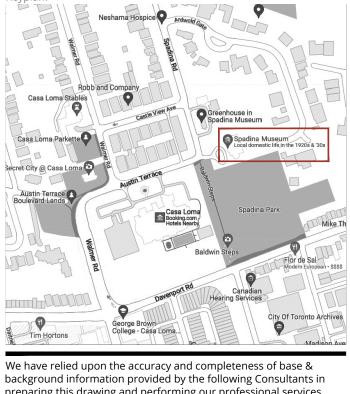
TEMPORARY SITE SAFETY FENCING (BEYOND THE REQUIREMENTS OF TPZ) _____________

TEMPORARY TREE PROTECTION FENCING (TPZ) REFER TO ARBORIST TPP PLAN FOR EXACT LOCATIONS. NOTE: DOUBLES AS CONSTRUCTION SITE SAFETY FENCING WHERE APPLICABLE.

EXISTING TREE TO BE REMOVED. REFER TO ARBORIST TPP PLAN.

EXISTING SOFTSCAPE & GRANULAR AREAS TO BE REMOVED TO DEPTHS PER ROUGH GRADING REQUIREMENTS OF L1 FINISHED CONDITIONS TYP.

EXISTING HARDSCAPE (UNIT PAVING & CIP CONCRETE) AREAS TO BE REMOVED TO DEPTHS PER ROUGH GRADING REQUIREMENTS OF L1 FINISHED CONDITIONS TYP.

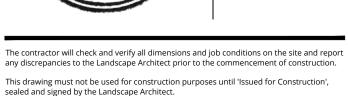


preparing this drawing and performing our professional services. Stevens Burgess Architects Speight, Van Nostrand & Gibson Ltd

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6	230712	ISSED FOR TENDER	KF
5	230707	ISSED FOR CD 100%	KF
4	230606	ISSED FOR CD 50%	KF
3	230508	ISSED FOR DD 100%	KF
2	230313	ISSUED FOR PUBLIC ENGAGEMENT/DD 50%	KF
1	230222	ISSUED FOR CLIENT REVIEW	KF
No.	Date (Y/M/D)	Issue / Revision	Ву





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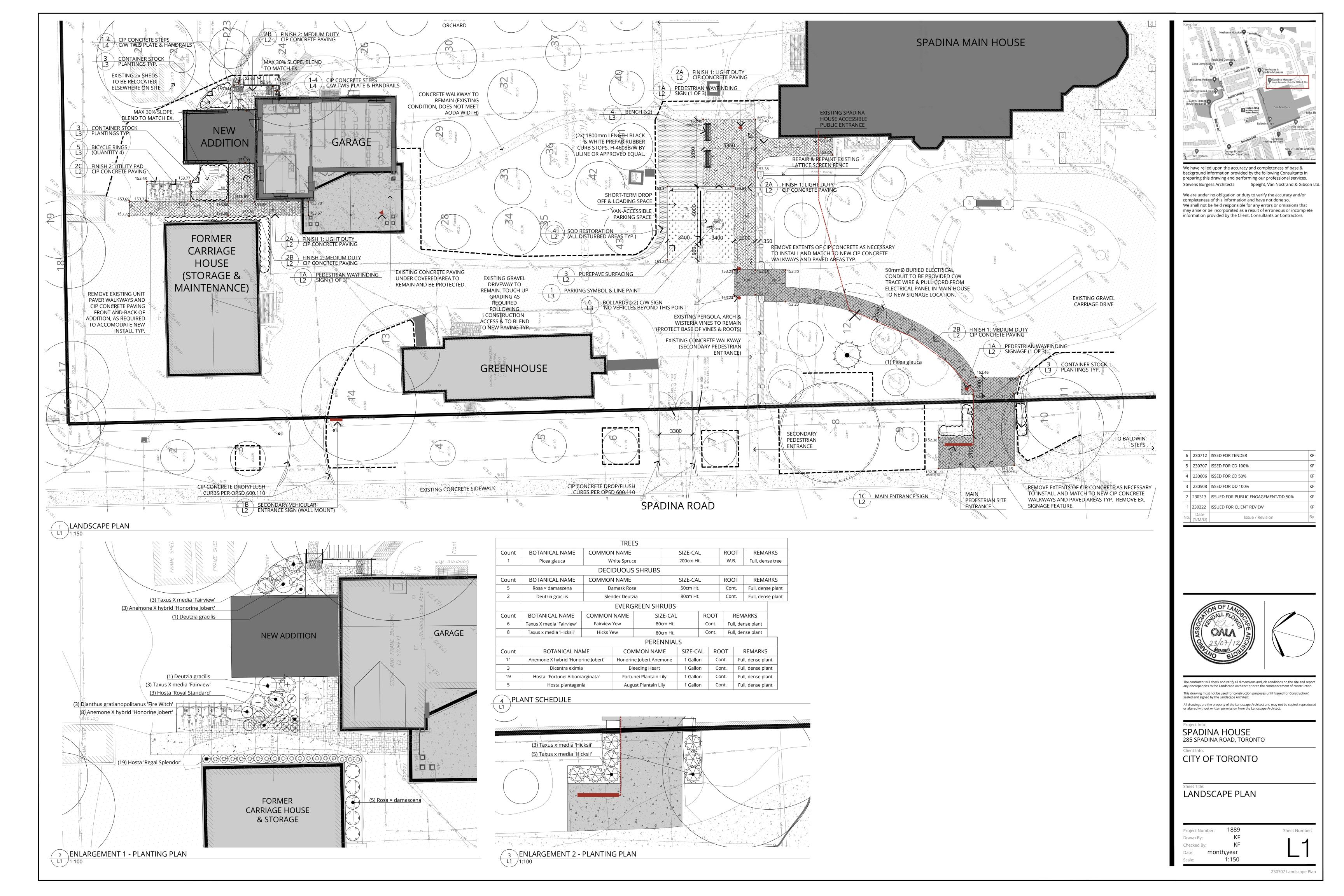
CITY OF TORONTO

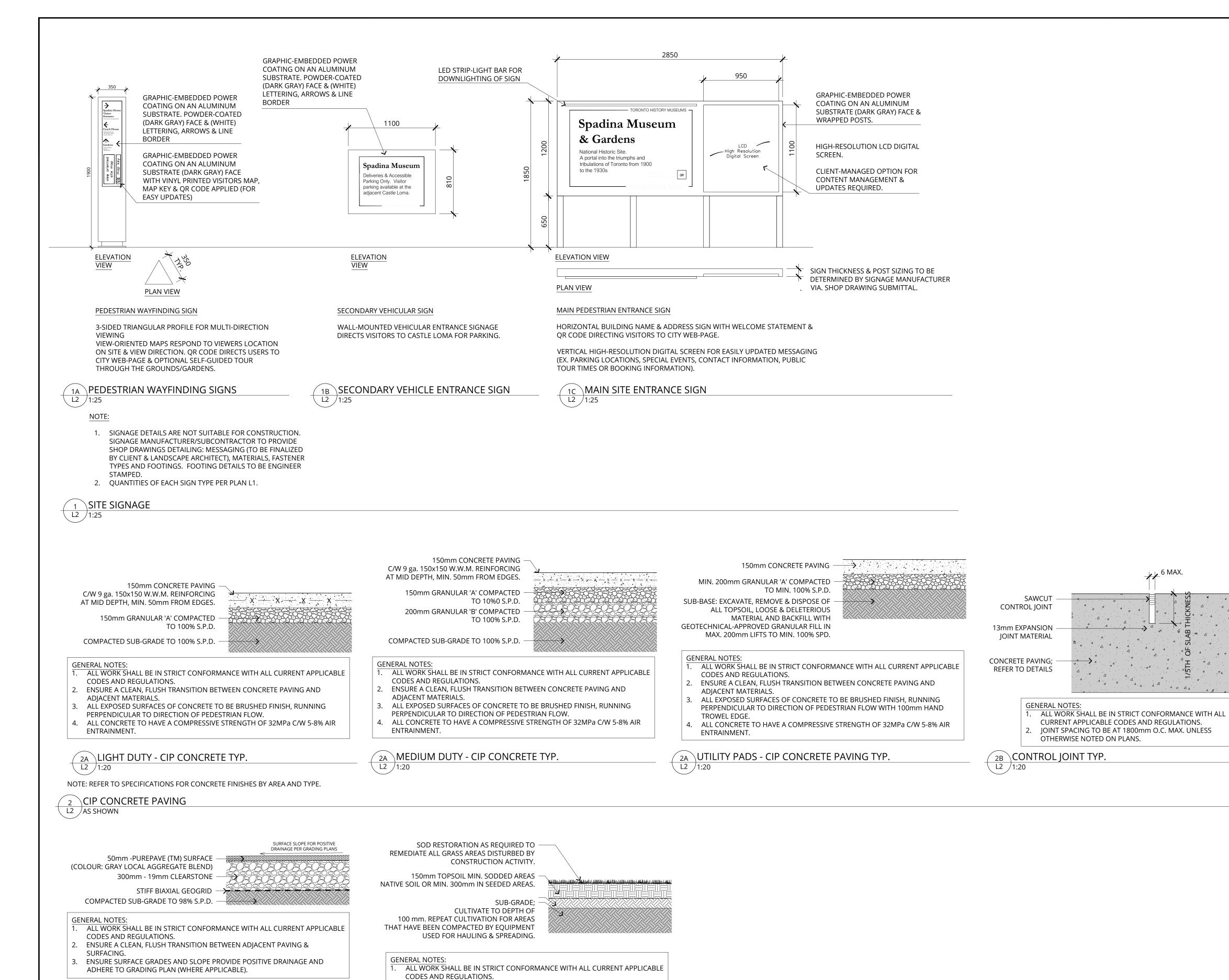
LANDSCAPE REMOVALS PLAN

Drawn By: Checked By: month,year 1:150

Sheet Number:

230707 Landscape Plan





TOPSOIL MUST BE CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH AND TO BE FREE FROM SUBSOIL, ROOTS, VEGETATION, DEBRIS, TOXIC MATERIALS

FOR AREAS TO RECEIVE SOD, SET TOPSOIL 15mm BELOW FINISHED GRADE. ALL SEEDED AREAS TO BE COMPLETED BY HYDROSEED APPLICATION. SEE SEED

ENSURE THAT GRADES AND CROSS SLOPE PROVIDE POSITIVE DRAINAGE AND

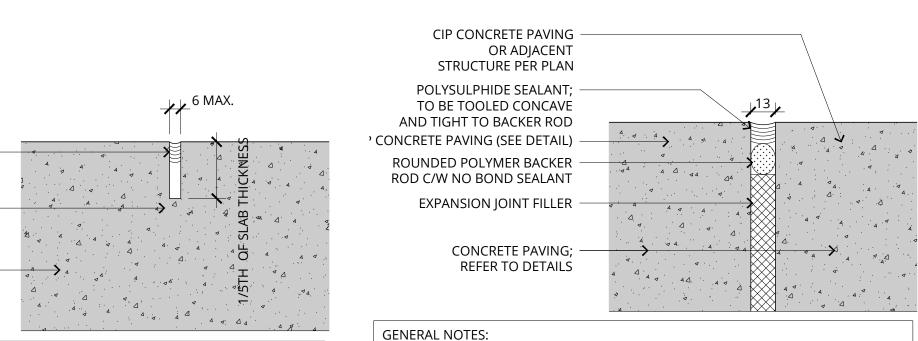
AND STONE OVER 50mm DIAMETER.

MIX AND APPLICATION RATES BELOW.

4 SOD/SEED RESTORATION TYP.

ADHERE TO GRADING PLAN (WHERE APPLICABLE).

\PURE-PAVE PARKING AREA SURFACING



GENERAL NOTES

6 MAX.

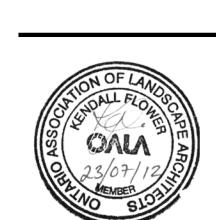
4 4 4 4 4

ALL WORK SHALL BE IN STRICT CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND REGULATIONS.

EXPANSION JOINTS TO BE PROVIDED AT ALL STRUCTURES. JOINT SPACING TO BE AT 3000mm O.C. MAX. UNLESS OTHERWISE NOTED ON

EXPANSION JOINT TYP.

1:20



6 230712 ISSED FOR TENDER

4 | 230606 | ISSED FOR CD 50%

3 | 230508 | ISSED FOR DD 100%

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Stevens Burgess Architects

Speight, Van Nostrand

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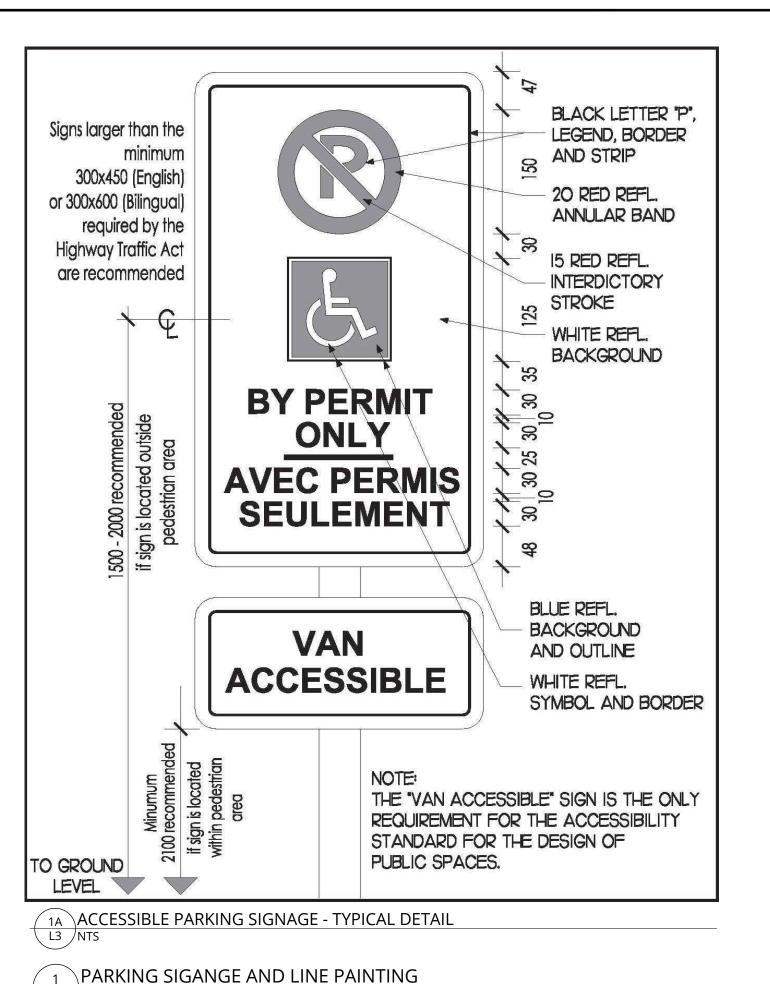
CITY OF TORONTO

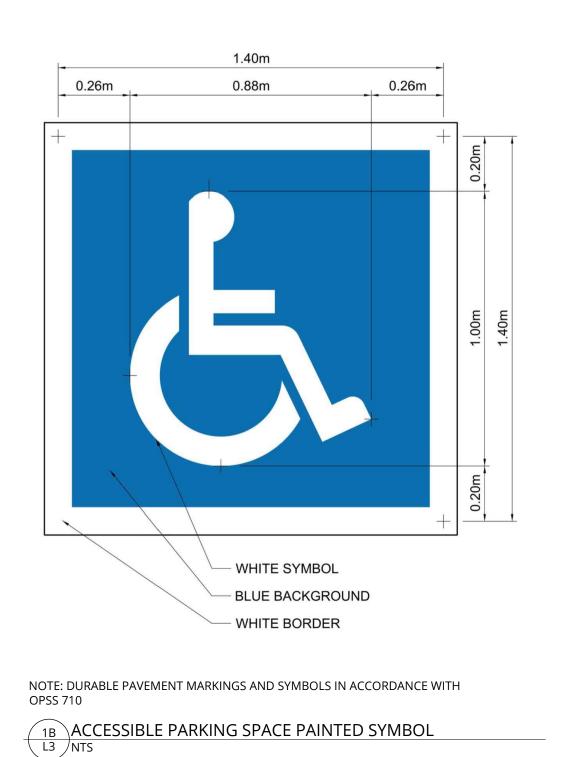
LANDSCAPE DETAILS

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230707 Landscape Plan

Sheet Number:



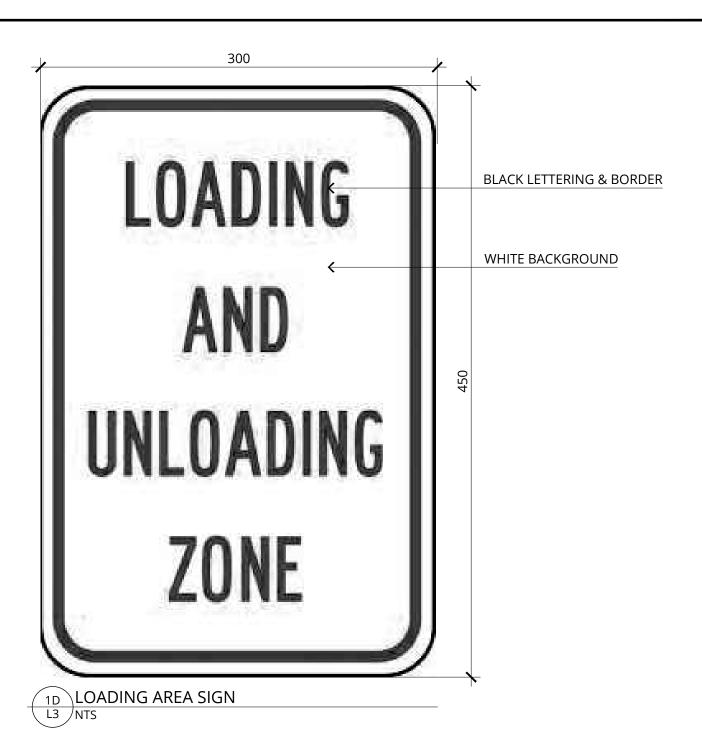


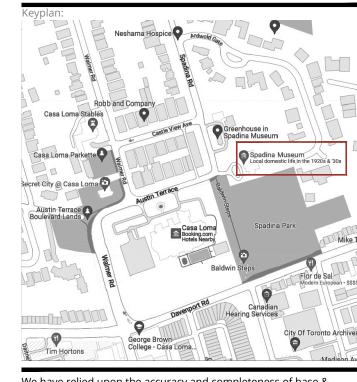
DETAIL 'B' DETAIL 'A' FOR POSTS INSTALLED IN CONCRETE -44mm 14 GAUGE 15cm SPACE REQUIRED FOR BASE TELESPAR TUBING (PERFORATED) $^{-3}\!\!/_{\!8}$ " x 2.5" GRADE 5 ZINC CHROME PLATED BOLT %" GRADE 5 NUT ANCHOR SLEEVE **DETAIL 'C'** 57mm TELESPAR TUBING (PERFORATED) SIGNS 30cm IN HEIGHT OR GREATER $-\frac{1}{2}$ ZINC PLATED FENDER WASHER SIGNS UNDER 30cm IN HEIGHT 3/8" STAINLESS STEEL WASHER - 3/8" x 2.5" GRADE 5 ZINC CHROME PLATED BOLT TRAFFIC SIGN -3/8" GRADE 5 NUT SIGN POST ANCHOR TELESPAR DRIVE RIVET (TL 3806) -51mm TELESPAR TUBING (PERFORATED) 1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED. 2. THREE (3) HOLES ON ANCHOR SLEEVE TO BE ABOVE GRADE. 3. ANCHOR SLEEVE AND SIGN POST ANCHOR INSTALLED IN CONCRETE TO BE WRAPPED

IN NON-POROUS MATERIAL BELOW GRADE. 4. DETAIL 'B' IS TYPICAL PLACEMENT FOR 'KEEP RIGHT' SIGNING ON A TRAFFIC ISLAND. IF A TRAFFIC SIGNAL POLE IS ERECTED

BETWEEN LESS THAN 3m FROM THE END OF ISLAND, SIGNING SHALL BE MOUNTED ON TRAFFIC SIGNAL POLE. 5. ALL TRAFFIC SIGNS SHALL BE MOUNTED ON TELESPAR POST (EXCEPT WHERE CO-USAGE OF UTILITY OR TRAFFIC POLES IS POSSIBLE).

TELESPAR SIGN POST - TYPICAL DETAIL





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L3 AS SHOWN PRUNE AND REMOVE DAMAGED BRANCHES DO NOT CUT LEADER SET TREE PLUMB REMOVE PROTECTIVE WRAPPING

AND INSPECT FOR DAMAGE 50mm x 50mm WOODEN STAKES c/w BIODEGRADABLE TREE TIES. TREES UNDER 200cm ht. TO BE SINGLE STAKED. TREES OVER 200cm ht. TO BE DOUBLE STAKED. DO NOT DRIVE STAKE THROUGH ROOT BALL. UPPER PORTFOMOSF STOUTBARN CROWN FEBRE PLANTED 25-509Fm 4B&WESBARTO DEPORTS 100mm MULCH BARK; CONTINUOUS AROUND BASE OF TREE. KEEP MULCH BACK, CLEAR 150mm FROM BASE OF STEM/ROOT FLARE. MULCH ALL PLANTING BEDS CONTINUOUS WITH 100mm DEPTH PROVIDE 75mm HIGH SOIL SAUCER STOOMS PERIMETER OF TREE. SAUCER TO BE SOAKED WITH WATER IMMEDIATELY AFTER INSTALLATION. PROVIDE EDGE AROUND EXTERIOR PERIMETER TOPSOIL AND SEED, WHERE APPLICABLE; REFER TO DETAIL PLANTING SOIL MIXTURE c/w BONE MEAL -

REMOVE WIRE BASKET, ROPE AND BURLAP -FROM TOP 1/3 OF ROOT BALL BEFORE PLACING MULCH (SYNTHETIC BURLAP SHALL NOT BE USED ON ROOT BALL.) UNDISTURBED OR COMPACTED SOIL; -SCARIFY BOTTOM OF PLANTING BED

ADDITIVE OR APPROVED EQUAL.

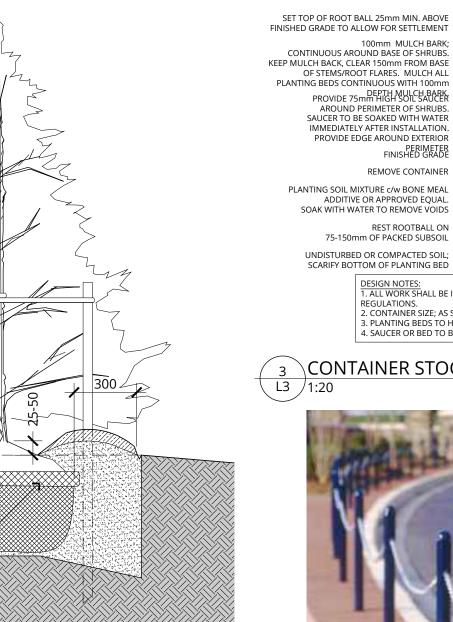
1. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND REGULATIONS.

2. HAND DIG PLANTING HOLE AND LOOSEN SURFACE SOIL. 3. ALLOW FOR SETTLEMENT WHEN SETTING PLANTS, SET PLANTS 50mm HIGHER THAN ADJACENT FINISHED GRADE.

4. BACKFILL SOIL IN 150mm LIFTS AND HAND TAMP TO PREVENT AIR POCKETS.

5. CAREFULLY REMOVE ANY LOOSE SOIL FROM TOP OF ROOT BALL.

CONIFEROUS TREE PLANTING - TYPICAL



PROVIDE EDGE AROUND EXTERIOR REMOVE CONTAINER PLANTING SOIL MIXTURE c/w BONE MEAL ADDITIVE OR APPROVED EQUAL SOAK WITH WATER TO REMOVE VOIDS 75-150mm OF PACKED SUBSOIL UNDISTURBED OR COMPACTED SOIL;
SCARIFY BOTTOM OF PLANTING BED 1. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND REGULATIONS. 2. CONTAINER SIZE; AS SPECIFIED. PLANTING BEDS TO HAVE 75mm SHREDDED BARK MULCH.
 SAUCER OR BED TO BE SOAKED WITH WATER IMMEDIATELY AFTER PLANTING.

ACC 400 MIN

CONTAINER STOCK PLANTING - TYPICAL

CONTINUOUS AROUND BASE OF SHRUBS.

DEPTH MULCH BARK. PROVIDE 75mm HIGH SOIL SAUCER

SALICER TO BE SOAKED WITH WATER

BOLLARDS BY VICTOR STANLEY MODEL: BKR-36 (3 in (76 mm) OD tubular steel)

FINISH: BLACK OPTIONS: C/W HOLE & FASTENERS FOR CHAIN CONNECTION BETWEEN TWO BOLLARDS.

INSTALLATION: SURFACE MOUNT PER MANUFACTURER INSTRUCTIONS.

USE ONLY TAMPER-PROOF STAINLESS STEEL FASTENERS. DO NOT OVER-TIGHTEN FASTENERS TO WHERE FINISH IS COMPROMISED.

CONTRACTOR TO SUPPLY & INSTALL SEPARATELY: CHAIN, OUTDOOR RATED, UV-RESISTANT, REEL, BLACK, 125 FT X 2 IN, NO. 8 PLASTIC OR APPROVED EQUAL.

CONTRACTOR TO ALLOW SUFFICIENT LEAD TIME

FOR ORDERING, PRODUCTION AND SHIPPING.

FINISH: IPE WOOD, NATURAL/UNFINISHED GUNMETAL GRAY METAL COMPONENTS

CONTACT: PARK STREET SOLUTIONS KEVIN BETTRIDGE Tel. 1.888.788.7408 | Mobile. 519.589.5157 https://parkst.ca/



BENCH BY: VICTOR STANLEY MODEL: C10 FRAME MEMBERS: BLACK

INSTALLATION: SURFACE MOUNT PER MANUFACTURER INSTRUCTIONS.

USE ONLY TAMPER-PROOF STAINLESS STEEL FASTENERS.

DO NOT OVER-TIGHTEN FASTENERS TO WHERE FINISH IS COMPROMISED.

SHIPPING. SLATS: WOOD (IPE) FINISH: IPE WOOD, NATURAL/UNFINISHED GUNMETAL GRAY METAL COMPONENTS. CONTACT: PARK STREET SOLUTIONS KEVIN BETTRIDGE

CONTRACTOR TO ALLOW SUFFICIENT LEAD

Tel. 1.888.788.7408 | Mobile. 519.589.5157

https://parkst.ca/

TIME FOR ORDERING, PRODUCTION AND

4 BENCH



BICYCLE RINGS BY VICTOR STANLEY MODEL: BRBS-104 COLOUR: BLACK

INSTALLATION: SURFACE MOUNT PER

MANUFACTURER INSTRUCTIONS. USE ONLY TAMPER-PROOF STAINLESS STEEL FASTENERS. DO NOT OVER-TIGHTEN FASTENERS

TO WHERE FINISH IS COMPROMISED. CONTRACTOR TO ALLOW SUFFICIENT LEAD TIME FOR ORDERING, PRODUCTION AND

FINISH: IPE WOOD, NATURAL/UNFINISHED GUNMETAL GRAY METAL COMPONENTS

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BICYCLE RINGS

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SPADINA HOUSE

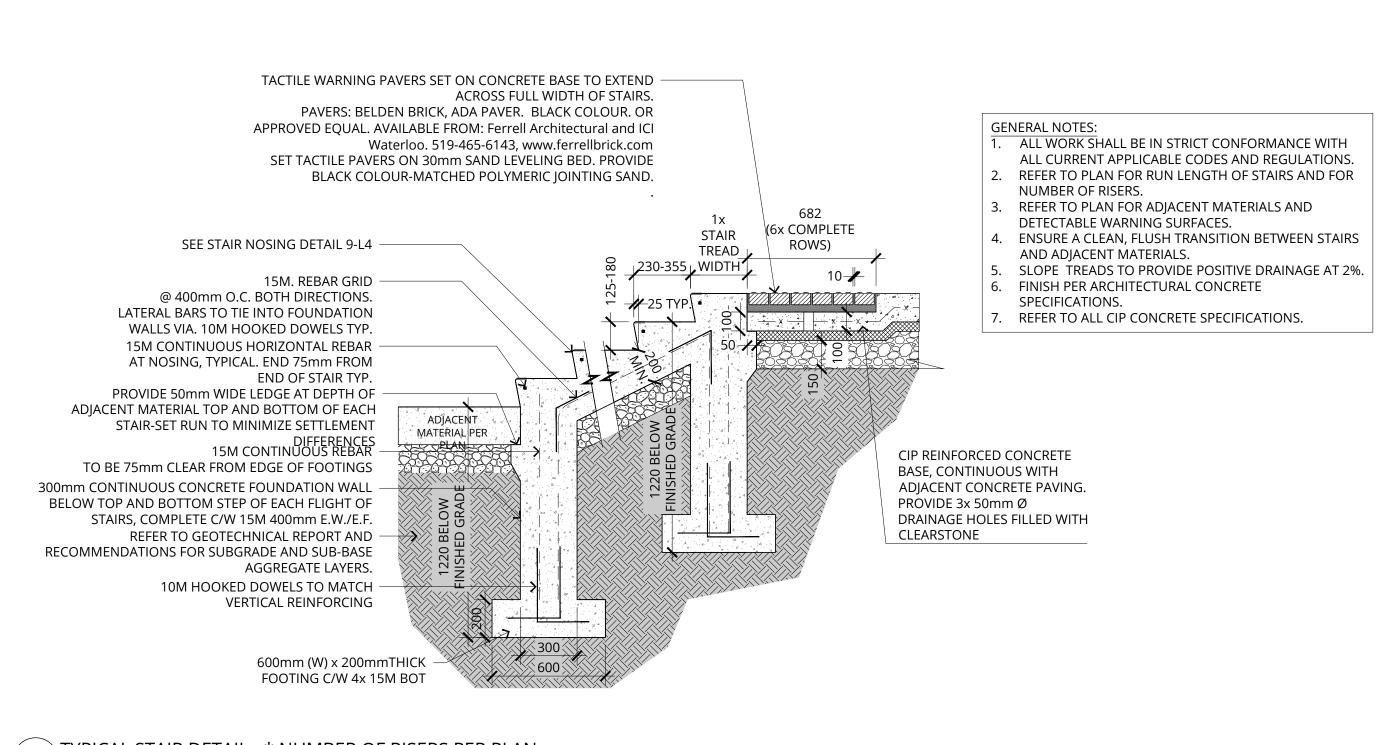
285 SPADINA ROAD, TORONTO

CITY OF TORONTO

LANDSCAPE DETAILS

Drawn Bv: Checked By: month,year 1:150

230707 Landscape Plan



38mm DIA. TYPE 306 STAINLESS STEEL HANDRAIL. INTERMEDIATE SUPPORTS TO BE SPACED EVENLY ALONG HANDRAIL; @ MAX 1550 O.C. ANCHORING; REFER TO DETAIL 11-L4 STAIRS; REFER TO DETAILS 8-9-L4 200mm Ø CIP CONCRETE FOOTINGS AT MIN. 1220mm DEPTH TYP. WHERE HANDRAIL INTERSECTS WITH ADJACENT PAVING TYP. HANDRAIL EXTENDS MIN. 610mm DEPTH INTO FOOTING 1. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND DOME TOP OF FOOTING SLIGHTLY REGULATIONS. FOR POSITIVE DRAINAGE AWAY 2. ENGINEER STAMPED SHOP DRAWINGS TO BE SUBMITTED BY CONTRACTOR AND APPROVED BY FROM BASE OF HANDRAIL. LANDSCAPE ARCHITECT PRIOR TO FABRICATION. 3. REFER TO PLAN FOR OVERALL LENGTH OF HANDRAIL SEGMENTS. 4. HANDRAIL HEIGHT TO BE OF UNIFORM AND MEASURED FROM THE OUTSIDE EDGE OF STAIR 5. ALL HANDRAIL BENDS TO HAVE AN INTERIOR RADIUS OF 38mm, TYP.

1 TYPICAL STAIR DETAIL - * NUMBER OF RISERS PER PLAN

SLIP RESISTANT EXTRUDED
ALUMINUM NOSING EACH STEP;
TO BE CAST IN PLACE.
WOOSTER PRODUCTS INC.
PRODUCT: WP-RN2SP - 2" WIDE
BLACK SPECTRA® (REPLACEABLE) FILLER
TYP.
OR APPROVED EQUAL

NOSING TO EXTEND CONTINUOUS ALONG
ENTIRE LENGTH OF THE TREAD, ENDING
100mm FROM THE EDGE OF STAIR
CAST IN PLACE CONCRETE
STAIRS; REFER TO DETAILS.

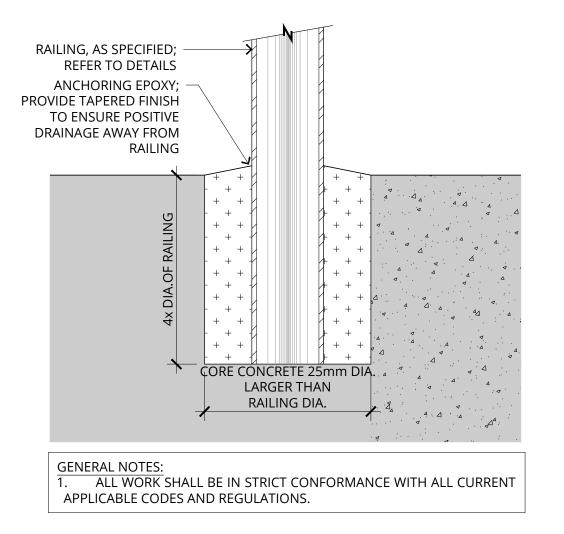
GENERAL NOTES:

1. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH ALL CURRENT APPLICABLE CODES AND REGULATIONS.

- REFER TO PLAN FOR RUN LENGTH OF STAIRS AND FOR NUMBER OF RISERS.
 PROVIDE SLOPE ON TREADS TO ENSURE POSITIVE DRAINAGE,
- MAXIMUM 2%.

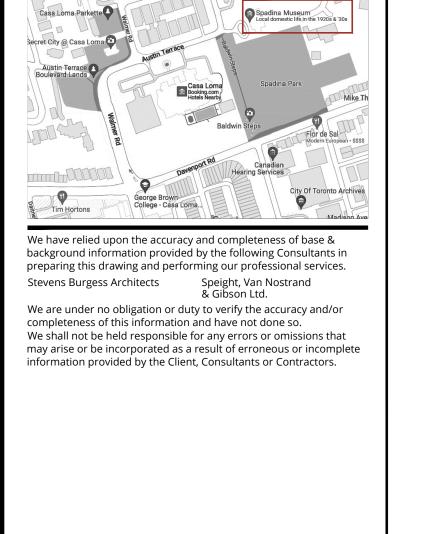
 4. ALL CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF
- 5. ALUMINUM NOSING TO BE APPLIED TO ALL TREADS.

TYPICAL STAIR NOSING DETAIL

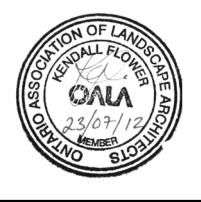


4 TYPICAL STAINLESS STEEL HANDRAIL IN CONCRETE CONNECTION

TYPICAL STAIR DETAIL - * NUMBER OF RISERS & LENGTH OF RAILS PER PLAN



6	230712	ISSED FOR TENDER	KF
5	230707	ISSED FOR CD 100%	KF
4	230606	ISSED FOR CD 50%	KF
3	230508	ISSED FOR DD 100%	KF
2	230313	ISSUED FOR PUBLIC ENGAGEMENT/DD 50%	KF
1	230222	ISSUED FOR CLIENT REVIEW	KF
No.	Date (Y/M/D)	Issue / Revision	Ву



The contractor will check and verify all dimensions and job conditions on the site and report any discrepancies to the Landscape Architect prior to the commencement of construction.

This drawing must not be used for construction purposes until 'Issued for Construction', sealed and signed by the Landscape Architect.

All drawings are the property of the Landscape Architect and may not be copied, reproduced.

Project Info:

SPADINA HOUSE
285 SPADINA ROAD, TORONTO

or altered without written permission from the Landscape Architect.

CITY OF TORONTO

Sheet Title:

LANDSCAPE DETAILS

Project Number: 1889
Drawn By: KF
Checked By: KF
Date: month,year
Scale: 1:150

L4

230707 Landscape Plan