ST.PATRICK STREET PEDWAY
RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

ARCHITECTURAL

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A102	FLOOR PLANS AND PARTITIONS
A110	CEILING PLANS AND FLOOR FINISH PLANS
A201	EXTERIOR ELEVATIONS AND ROOF PLAN
A202	SKYLIGHT REFURBISHMENT
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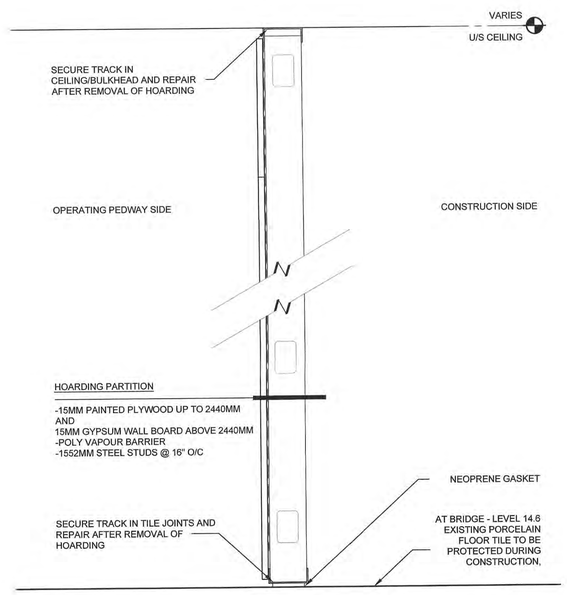
M3	MECHANICAL SPECIFICATIONS

ELECTRICAL

E101	ELECTRICAL DEMOLITION LAYOUTS & LEGEND
E102	ELECTRICAL NEW LAYOUTS & SCHEDULES



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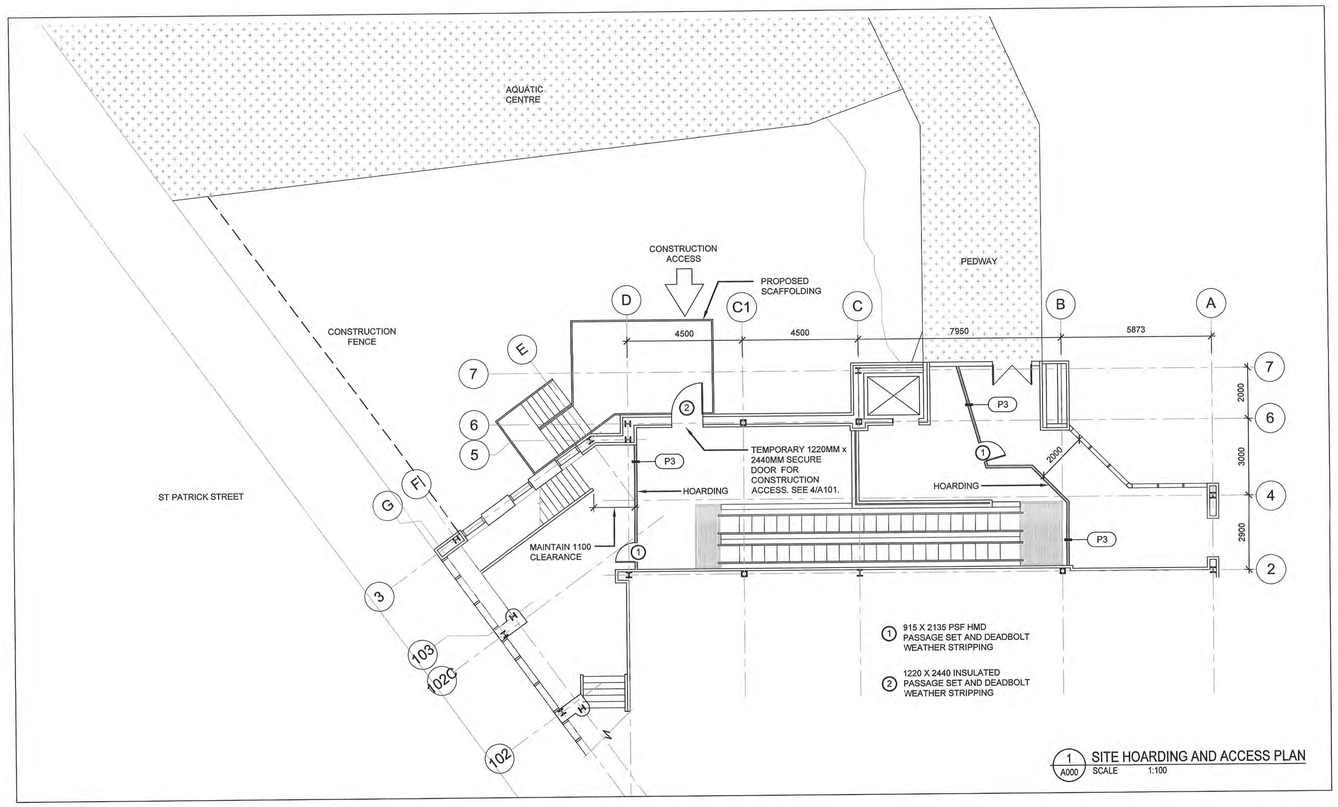

1 A000 SITE HOARDING AND ACCESS PLAN
SCALE 1:100

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ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

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COVER SHEET

Date / Date	2023.10.06
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19-719	A000

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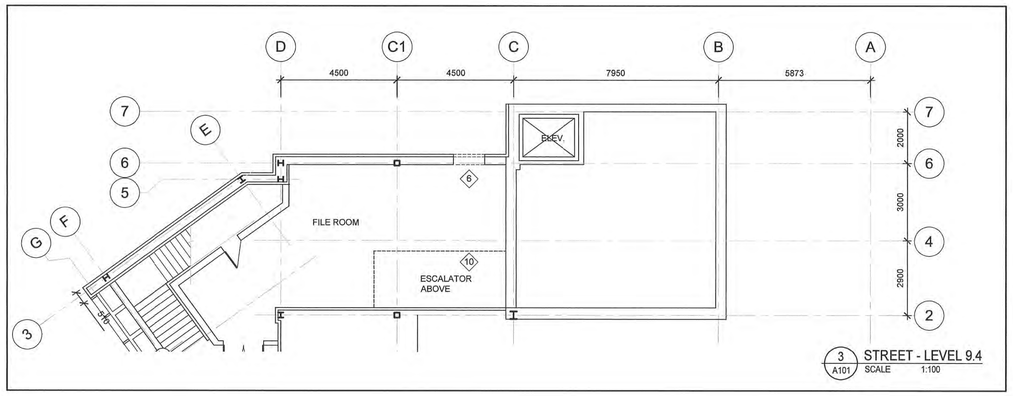
DEMOLITION NOTES:

1. REMOVE ESCALATOR, MACHINERY, GRATES, AND ALL ASSOCIATED PARTS.
2. NEW OPENINGS IN EXISTING WALLS FOR ACCESS TO ELEVATOR. SEE 2/A501.
3. REMOVE EXISTING GUARDRAIL AND BASE. SEE 1/A402FOR DEMOLITION SECTION.
4. DEMOLISH WALL BELOW ESCALATOR.
5. DEMOLISH BLOCK WALL BELOW ESCALATOR. KEEP BRICK FOR REUSE IN NEW WALL UNDER STAIRS.
6. NEW 1220MM X 2135MM OPENING IN BLOCK WALL/CONCRETE WALL FOR ACCESS TO NEW ROOM.
7. DEMOLISH PORTION OF WALL FOR 1220MM TEMPORARY DOOR DURING CONSTRUCTION ACCESS. BE PREPARED FOR POSSIBLE CONDUIT IN WALL. SEE 4/A101, 5/A101 AND 7/A101 FOR LINTEL DETAIL.
8. REMOVE EXISTING GYPSUM BOARD CEILING.
9. OPENINGS TO BE MADE FOR DRAINAGE FROM NEW ELEVATOR TO EXISTING ELEVATOR. SEE STRUCTURAL.
10. REMOVE EXISTING GYPSUM BOARD CEILING OF FILE ROOM AS REQUIRED TO ACCESS AND DEMOLISH ESCALATOR. CEILING TO BE REPAIRED DURING CONSTRUCTION SEE A110.



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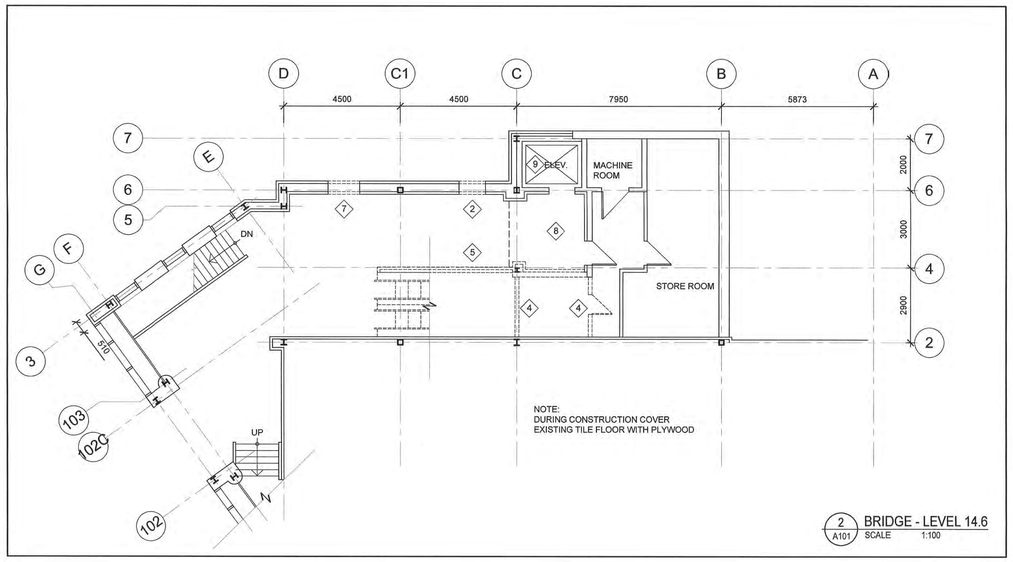

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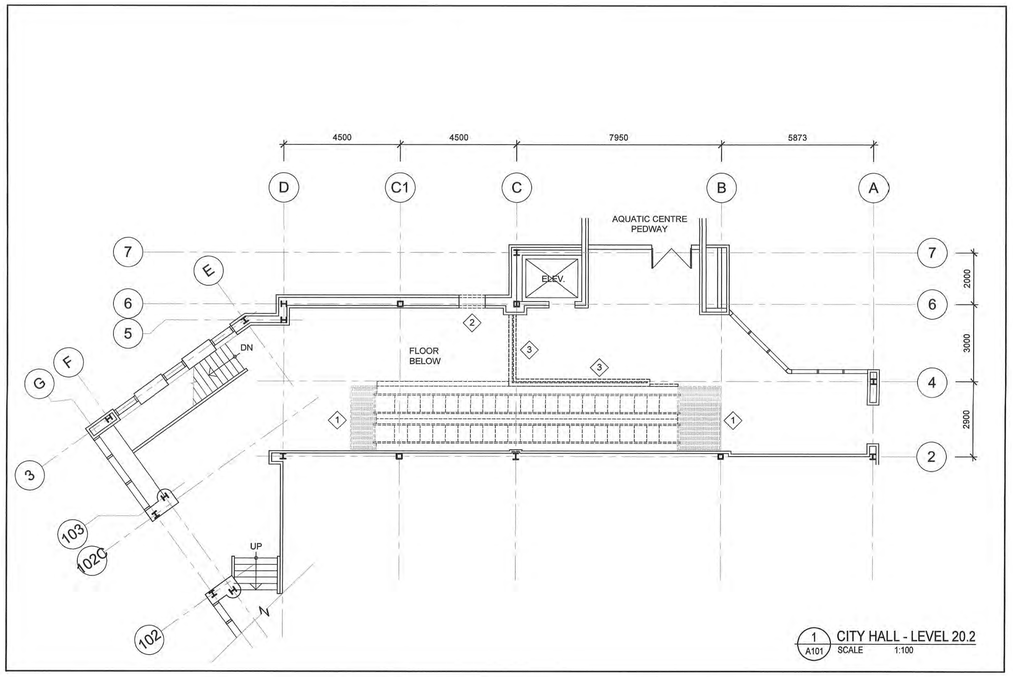

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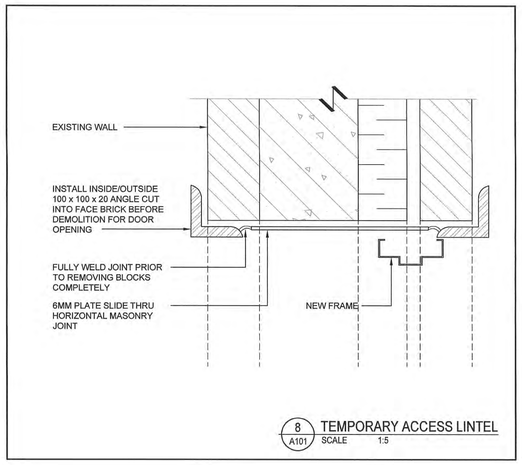

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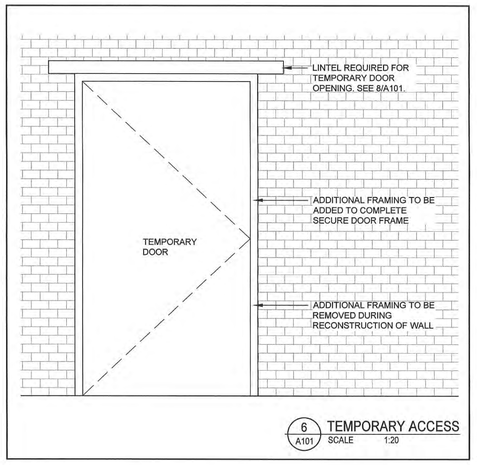

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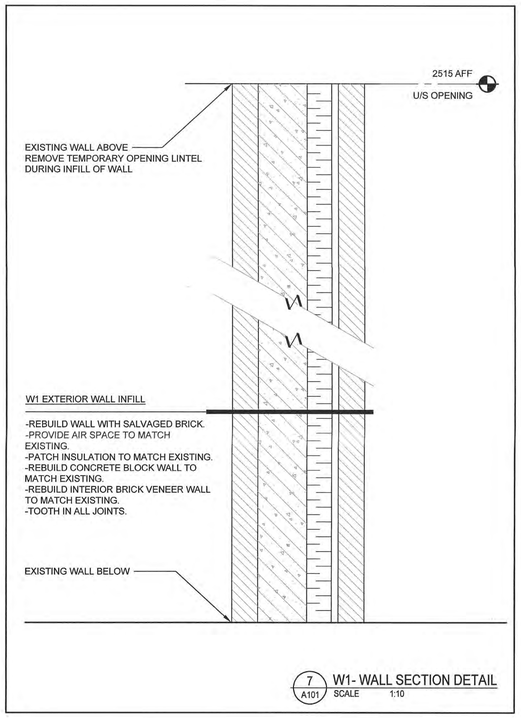

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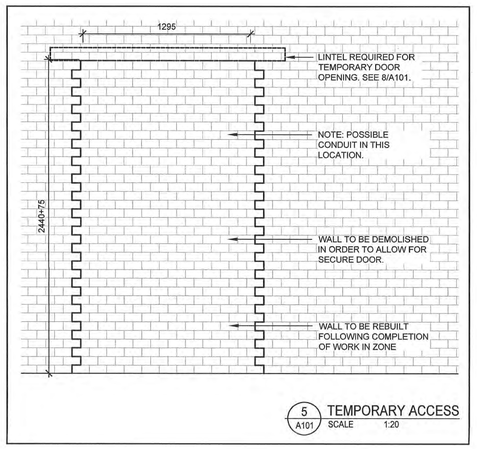

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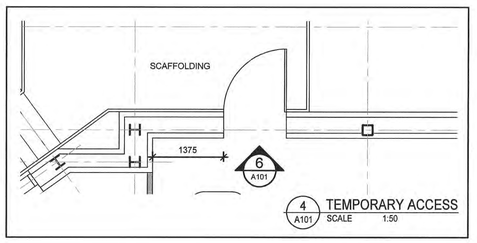

4 A101 TEMPORARY ACCESS
SCALE 1:50

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1. BRICKS TAKEN FROM DEMOLISHED WALLS TO BE REUSED AND RECLAIMED AS INDICATED IN THE DRAWINGS.

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DEMOLITION PLANS

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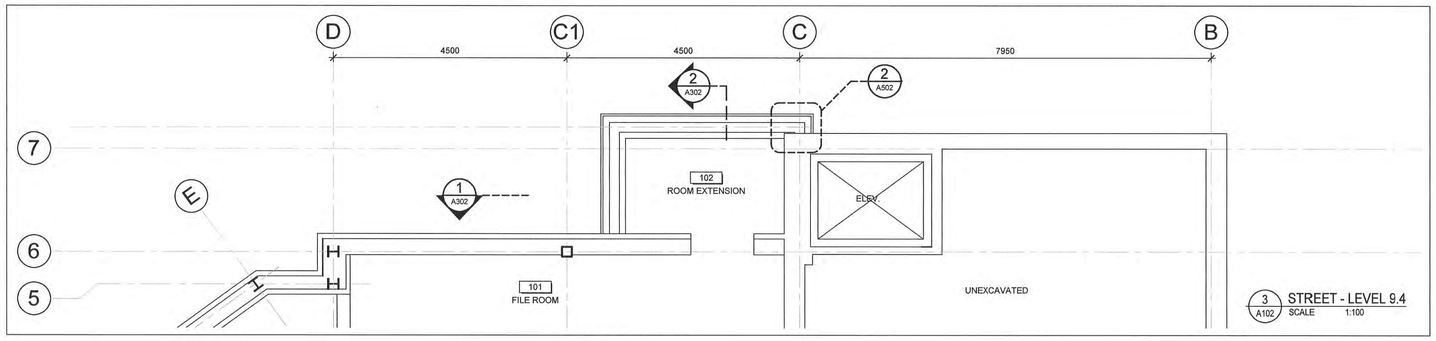

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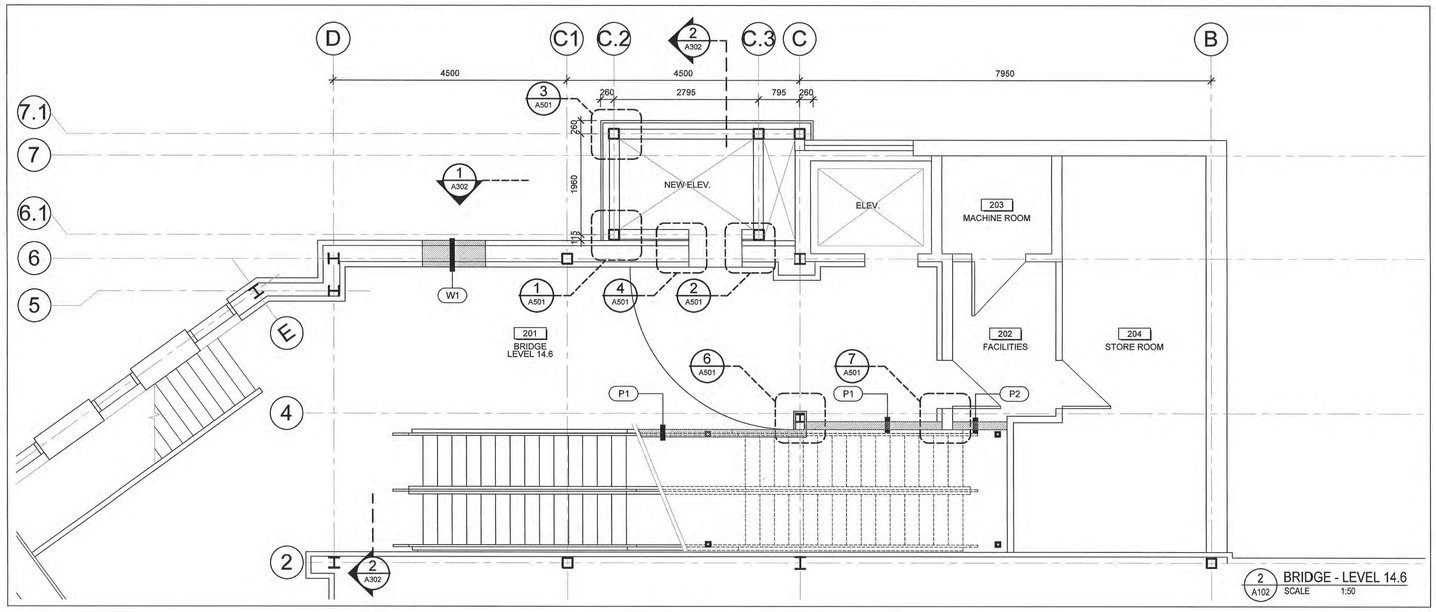

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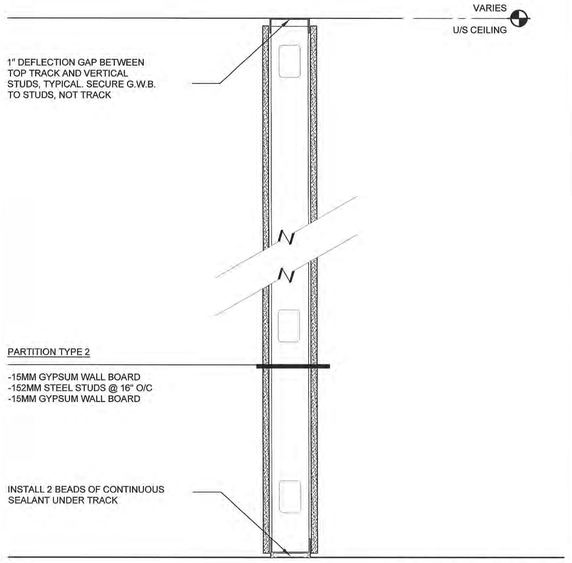

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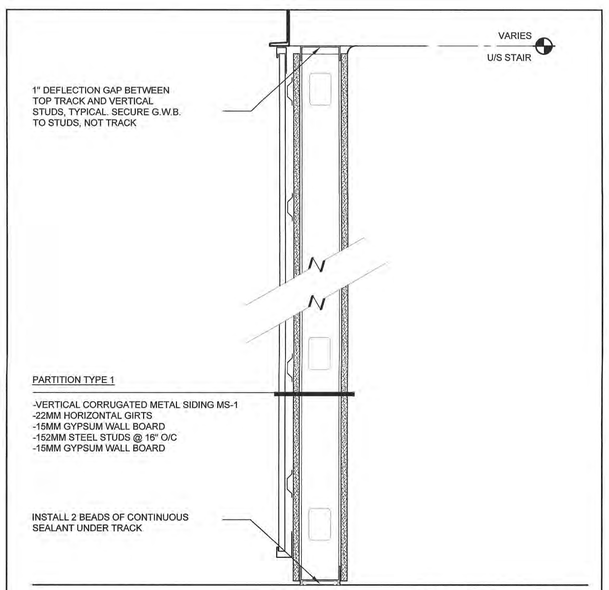

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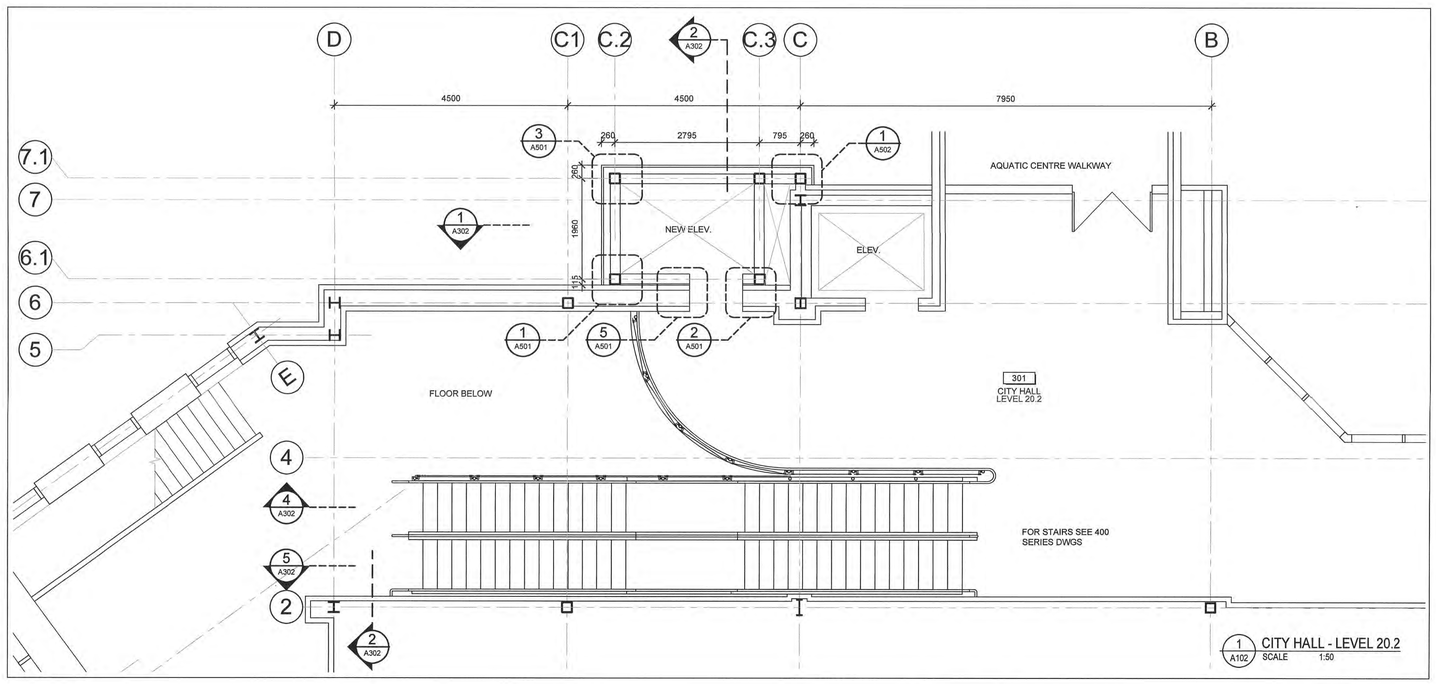

1 A102 CITY HALL - LEVEL 20.2
SCALE 1:50

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FLOOR PLANS AND PARTITIONS

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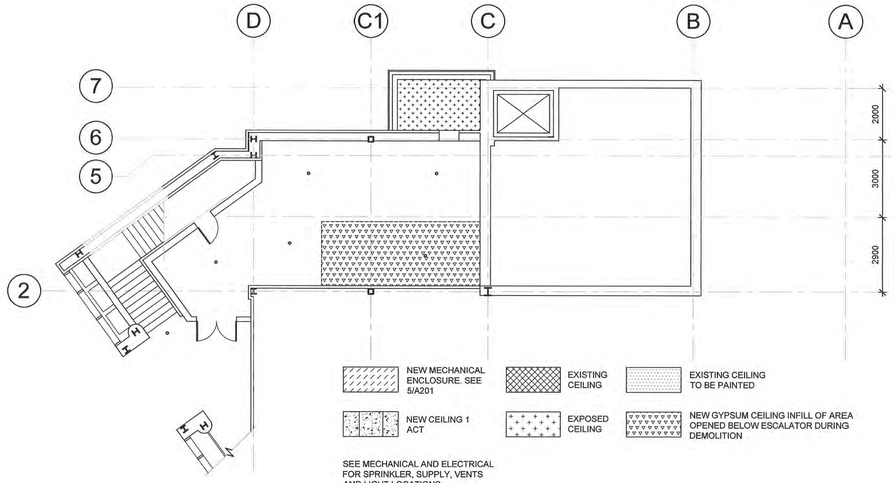

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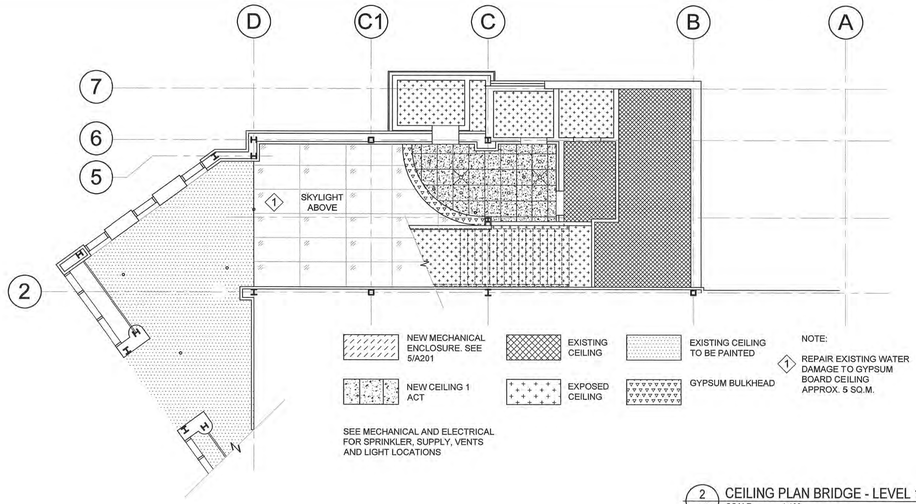

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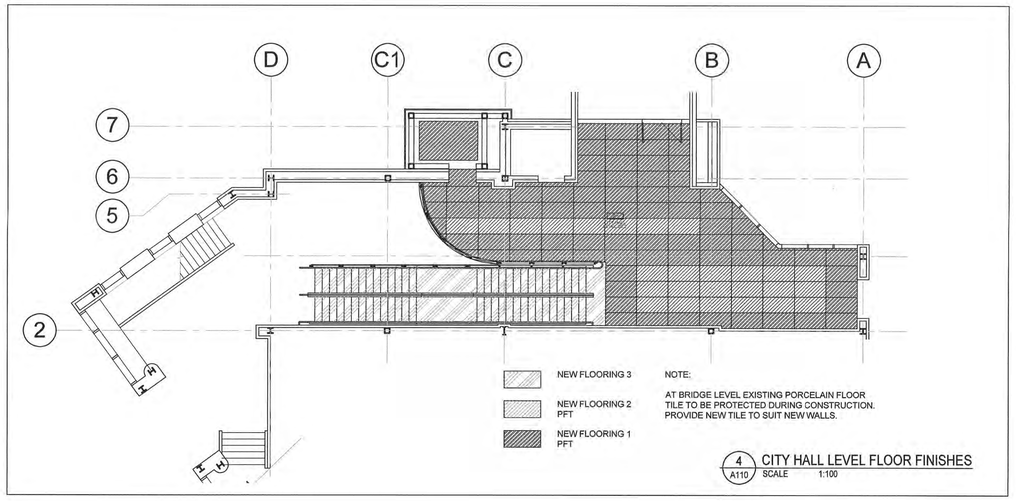

4 / A110 CITY HALL LEVEL FLOOR FINISHES
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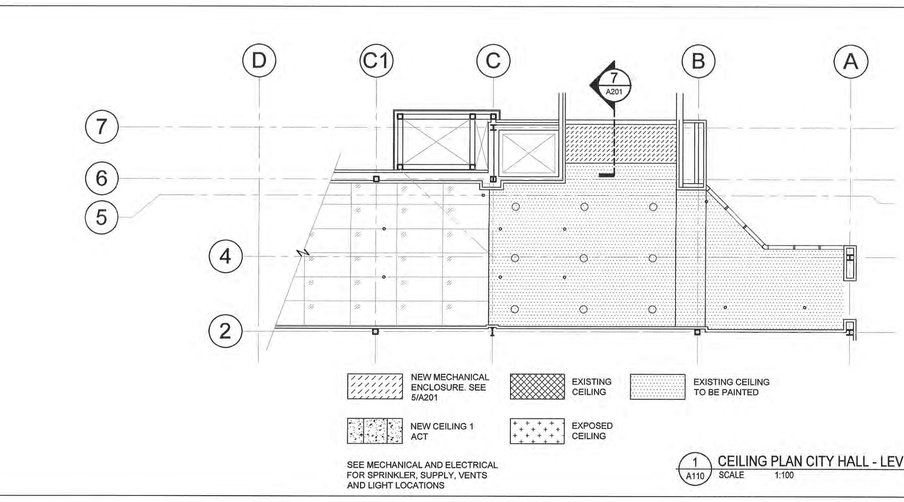

1 / A110 CEILING PLAN CITY HALL - LEVEL 20.2
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CEILING PLANS & FLOOR FINISH PLANS

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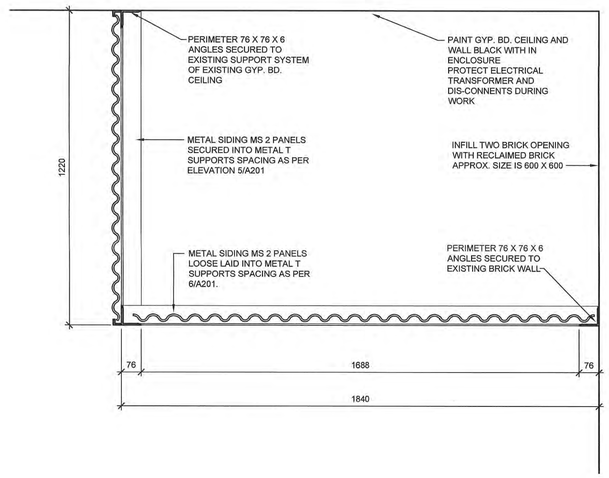

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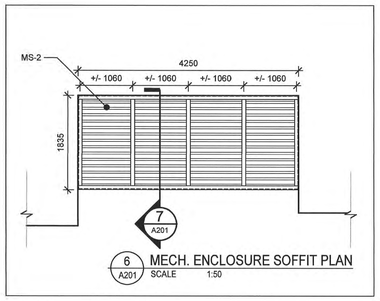

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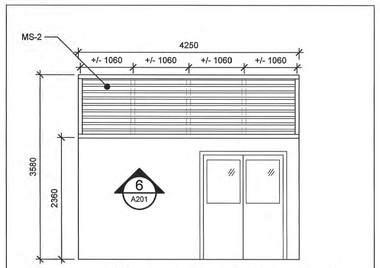

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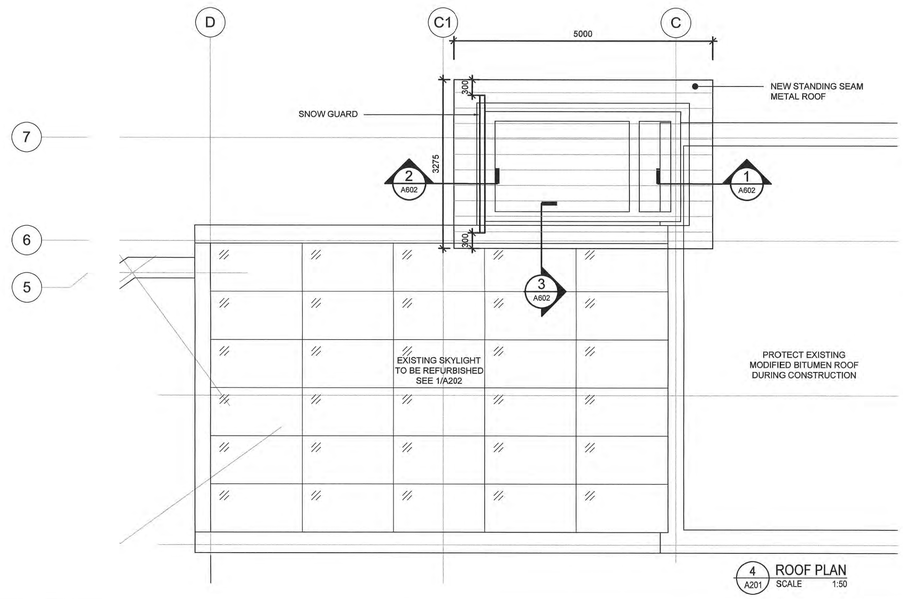

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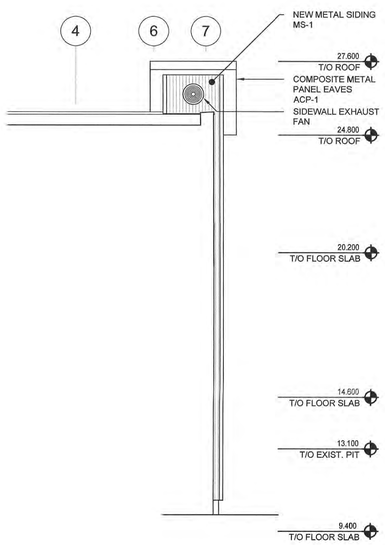

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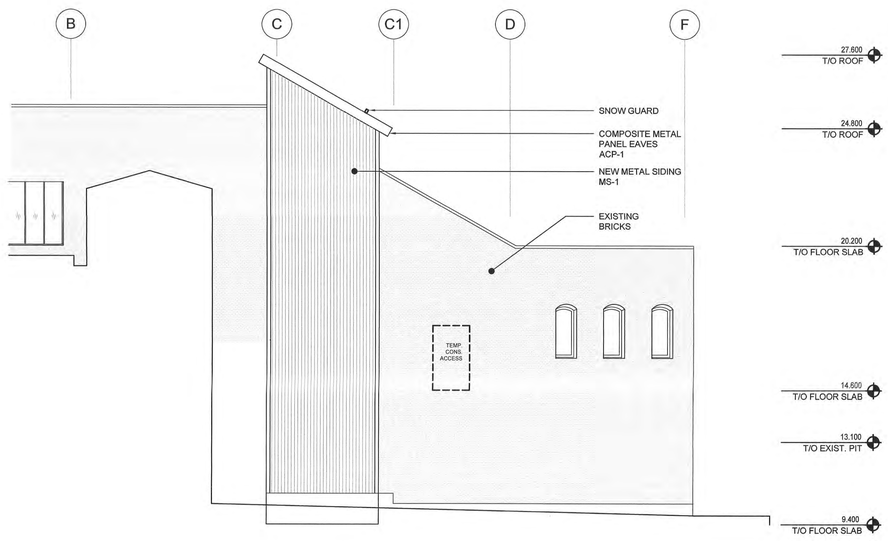

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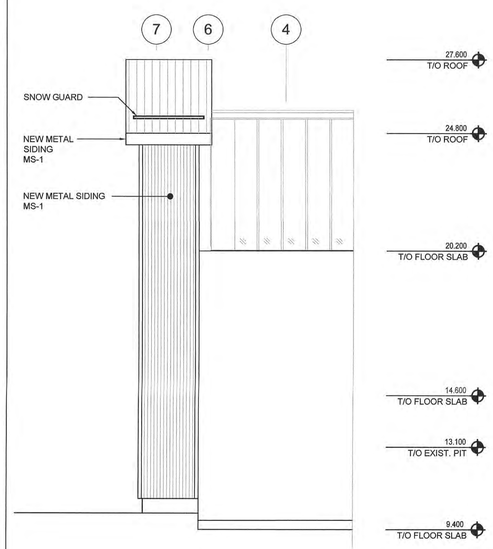

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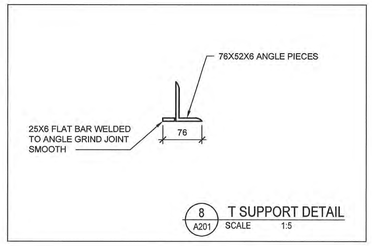

8 A201 T SUPPORT DETAIL
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EXTERIOR ELEVATIONS AND ROOF PLAN

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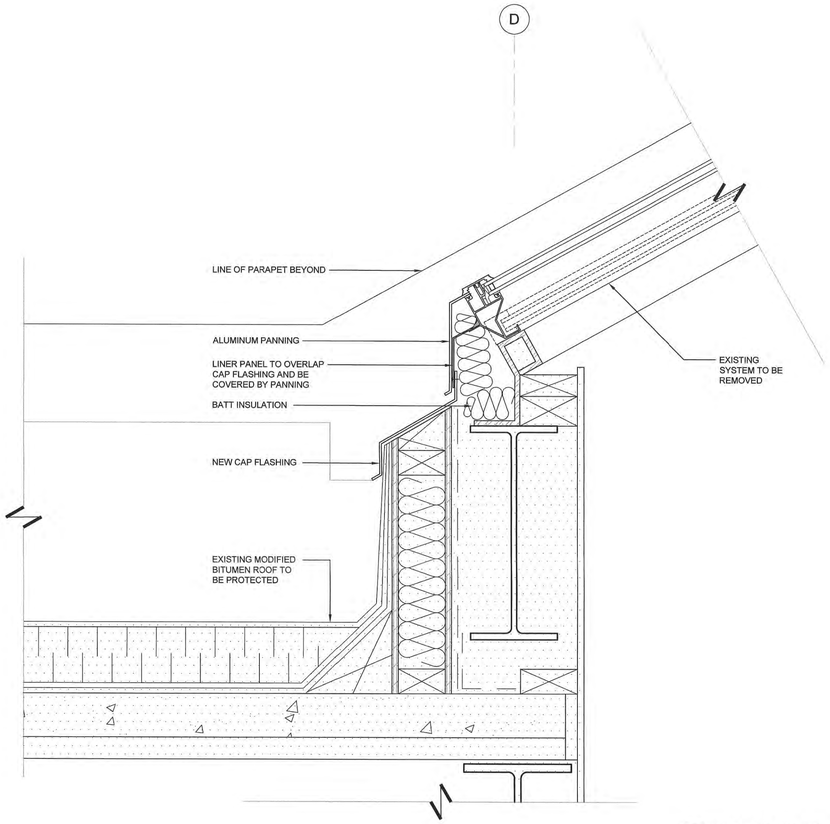

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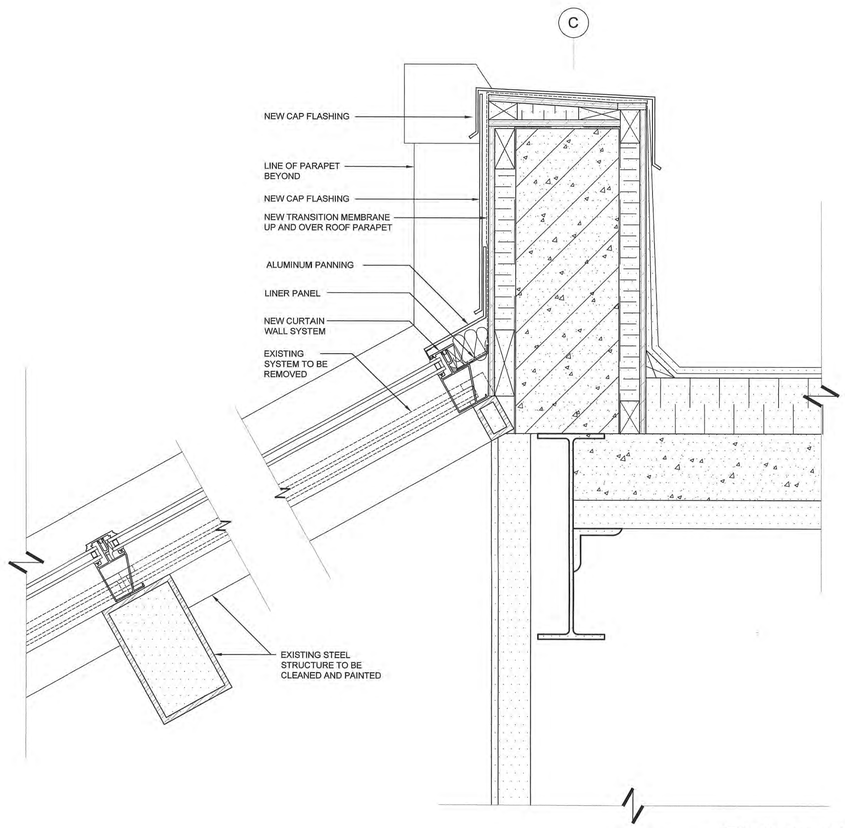

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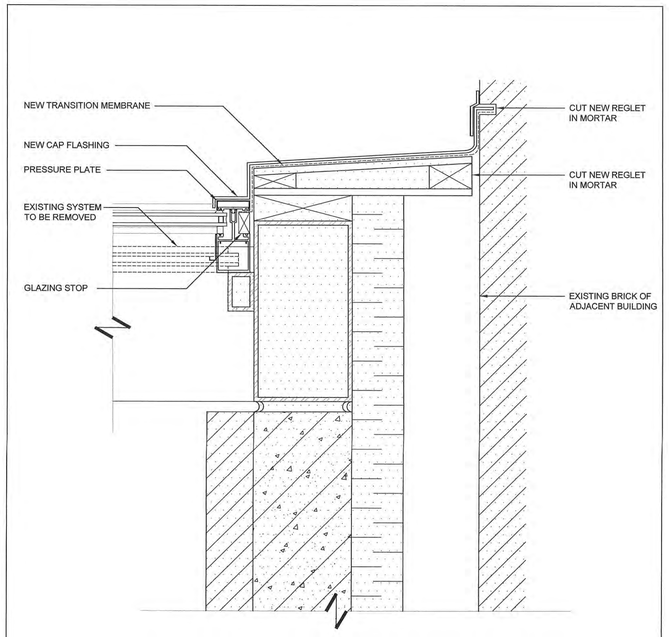

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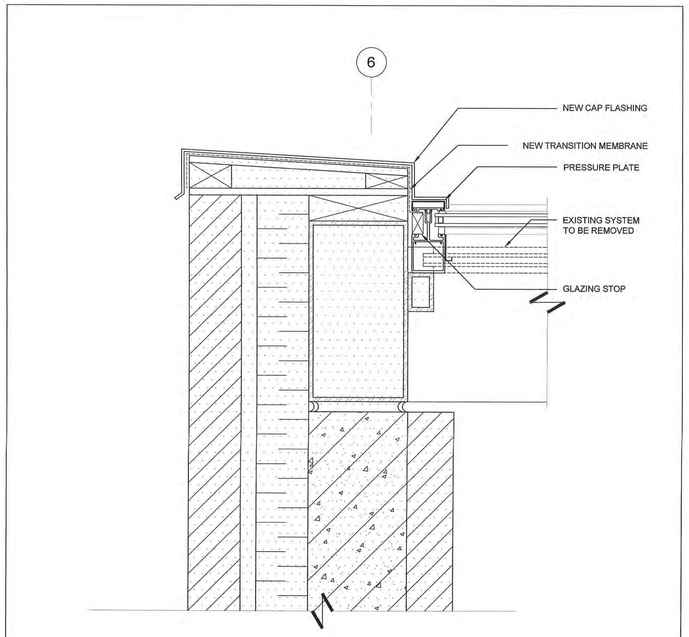

2 A202 CURTAIN WALL DETAIL
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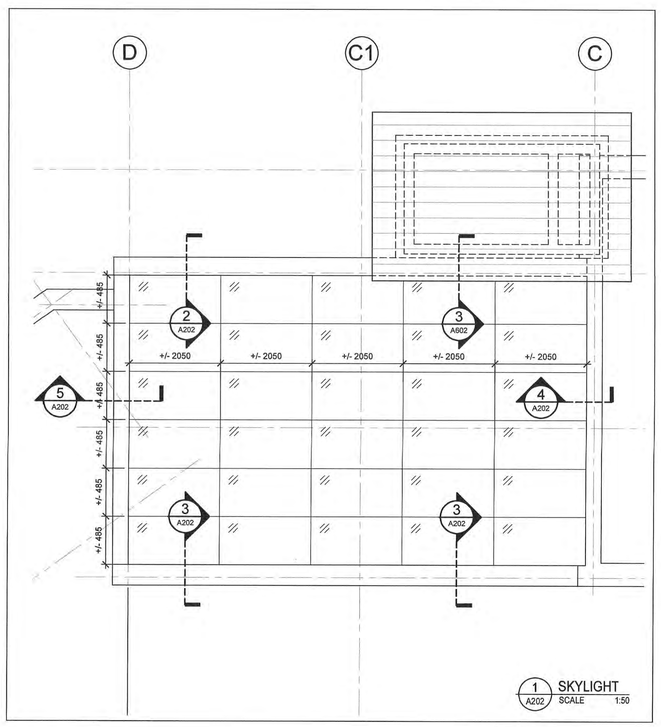

1 A202 SCALE 1:50

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Revisions / Revisions	No/Nº	Date
ISSUED FOR TENDER	NO.1	2023/10/06

Consultant / Expert-conseil

Project Title / Titre du projet

ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

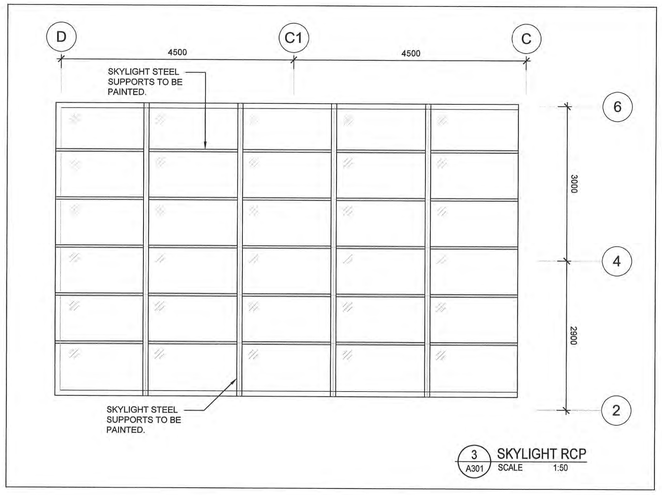
SKYLIGHT REFURBISHMENT

Date / Date	2023.10.06
Scale / Échelle	AS NOTED
Drawn by / Dessiné par	EAS
Approved by / Approuvé par	MRB
Consultant reference number / Numéro de référence de l'expert-conseil	

Stamp / Sceau: 22001 CERTIFICATE of PRACTICE Malcolm R. Boyd MURDOCK & BOYD ARCHITECTS INC. ASSOCIATION of NEW BRUNSWICK

2023-10-18

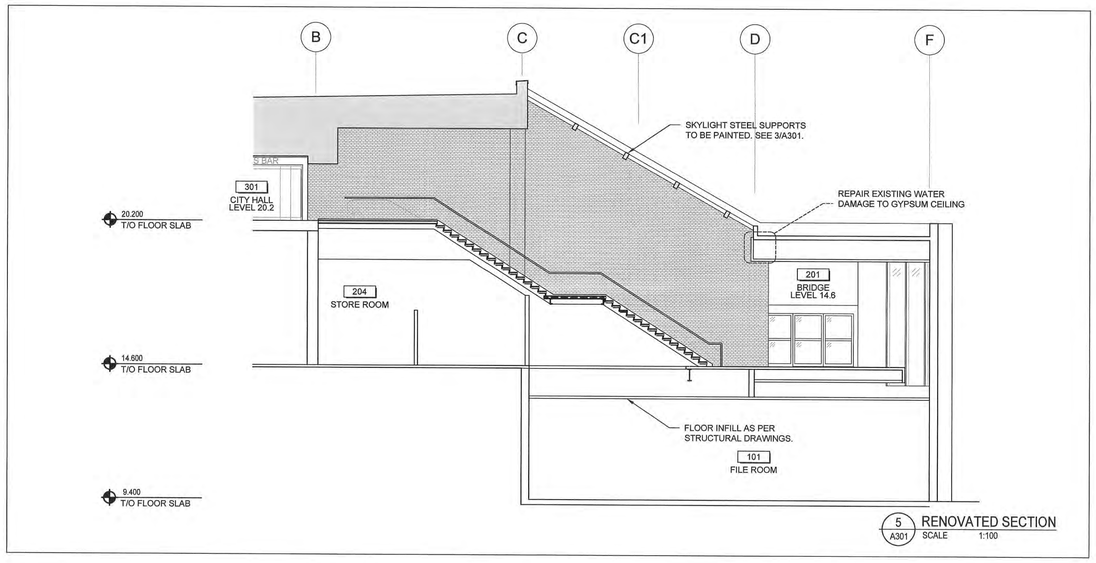
Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A202



3 A301 SKYLIGHT RCP
SCALE 1:50

DEMOLITION NOTES:

1. REMOVE ESCALATOR, MACHINERY, GRATES, AND ALL ASSOCIATED PARTS.
2. REMOVE EXISTING GUARDRAIL AND BASE. SEE 4/A601 FOR DEMOLITION SECTION.
3. DEMOLISH WALL BELOW ESCALATOR.
4. DEMOLISH BLOCK WALL BELOW ESCALATOR. KEEP BRICK FOR REUSE IN NEW WALL UNDER STAIRS.
5. CEILING BELOW ESCALATOR TO BE REMOVED DURING DEMOLITION AND REPLACED FOLLOWING FLOOR INFILL. SEE STRUCTURAL FOR INFILL. SEE A110 FOR CEILING PLAN.



5 A301 RENOVATED SECTION
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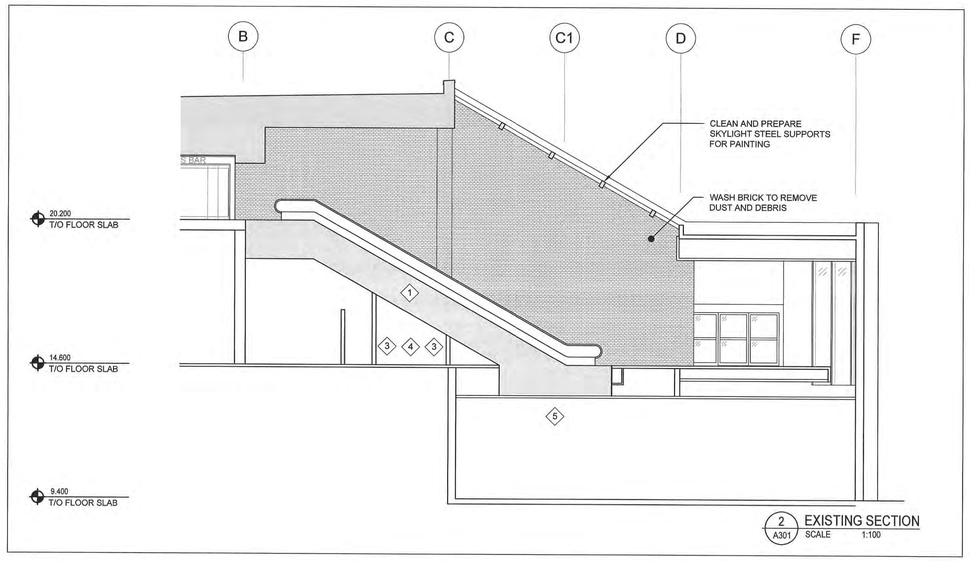

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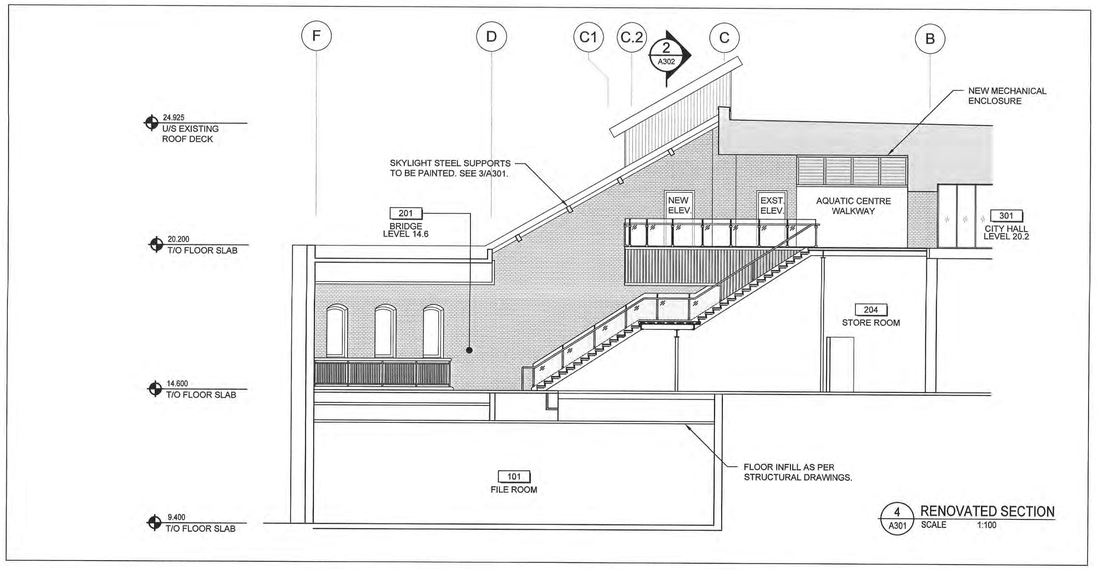

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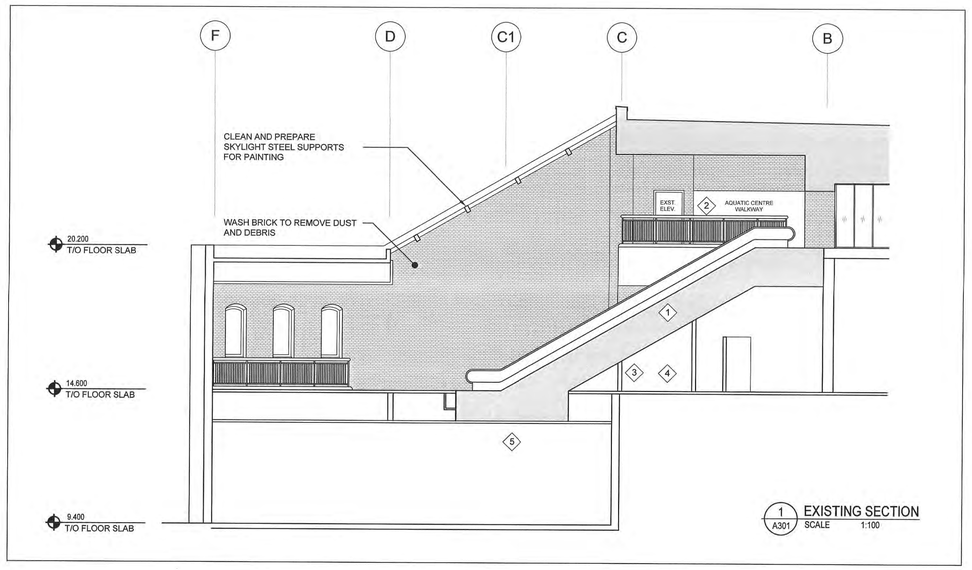

1 A301 EXISTING SECTION
SCALE 1:100

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ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

BUILDING SECTIONS

Date	2023.10.06	Date	
Scale	AS NOTED	Échelle	
Drawn by	EAS	Dessiné par	
Approved by	MRB	Approuvé par	
Consultant reference number		Numéro de référence de l'expert-conseil	

Stamp / Sceau

22001
CERTIFICATE of PRACTICE
Malcolm R. Boyd
MURDOCK & BOYD ARCHITECTS INC.
ASSOCIATION OF NEW BRUNSWICK
2023-10-18

Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A301

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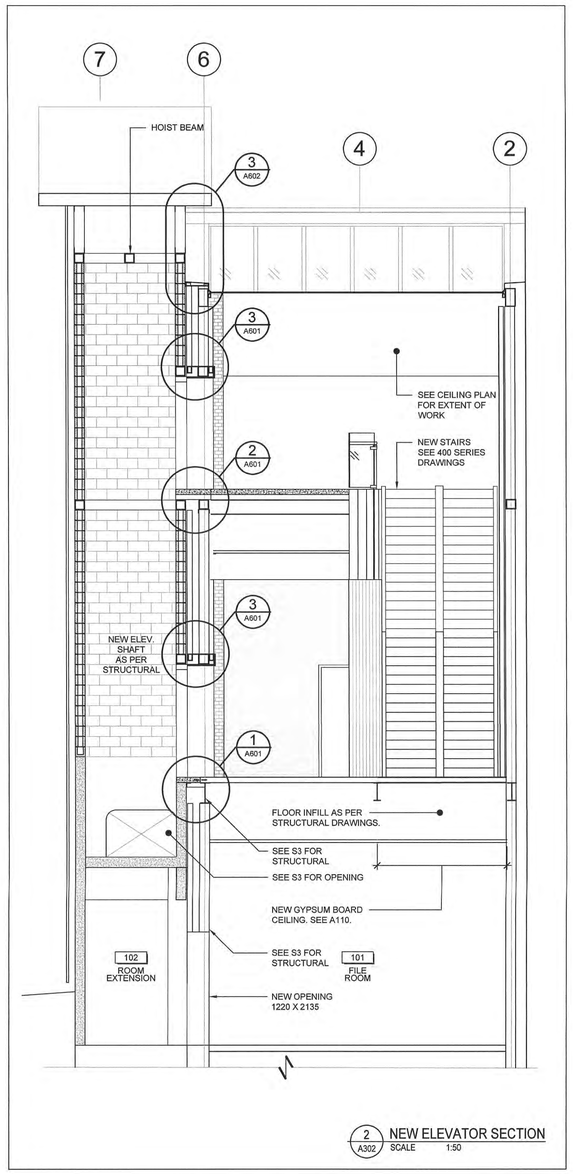

2 A302 NEW ELEVATOR SECTION
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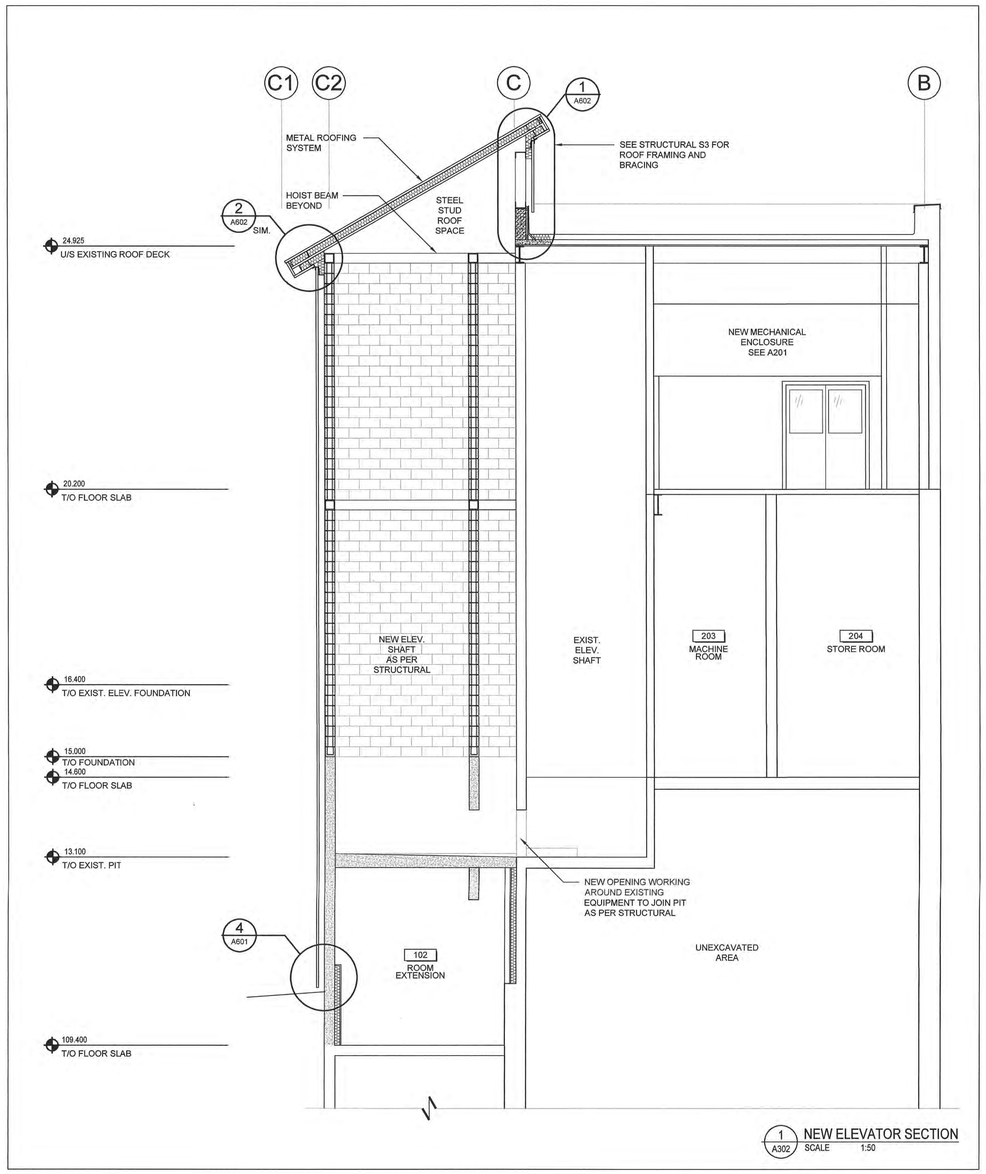

1 A302 NEW ELEVATOR SECTION
SCALE 1:50

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ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

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WALL SECTIONS

Date / Date	2023.10.06
Scale / Échelle	1:50
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2023-10-18

Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A302

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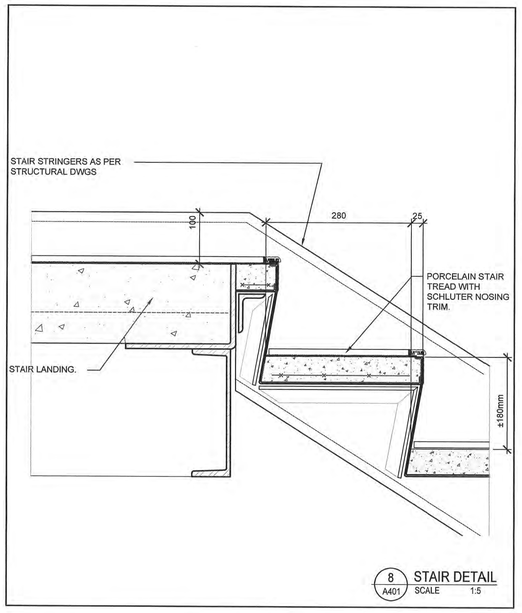
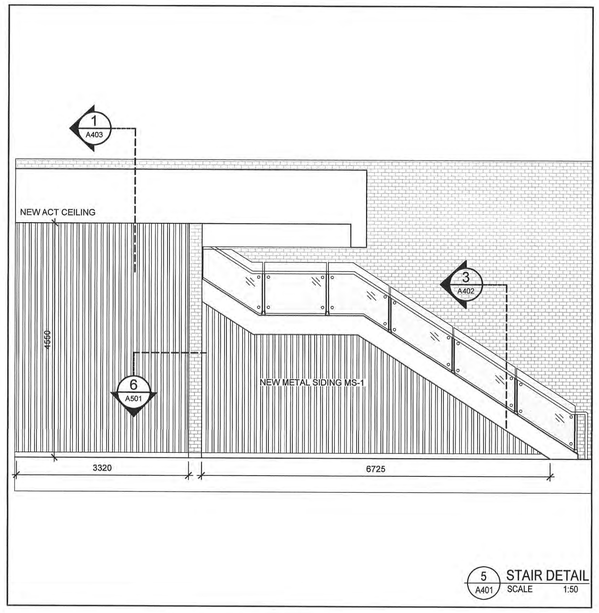


8 A401 STAIR DETAIL SCALE 1:5



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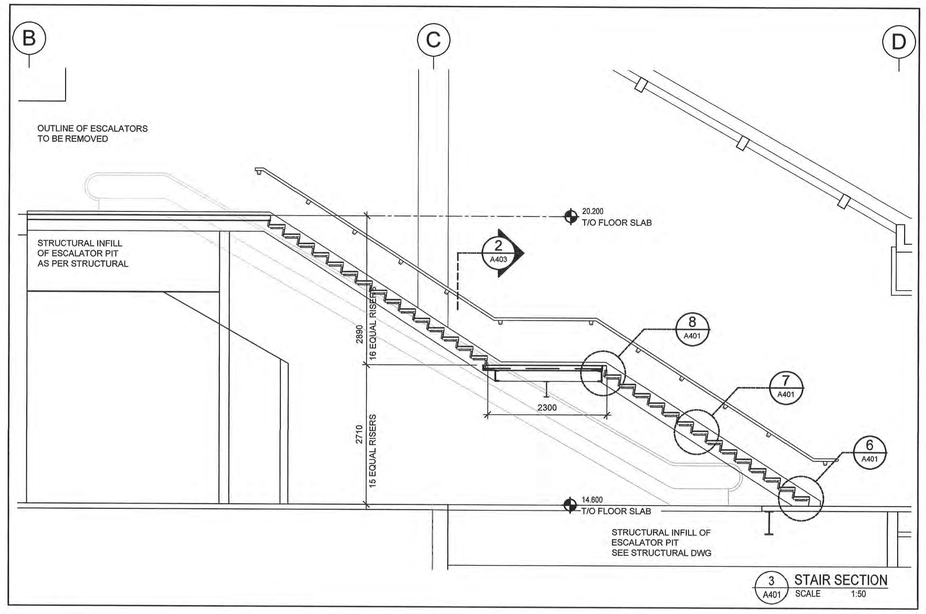
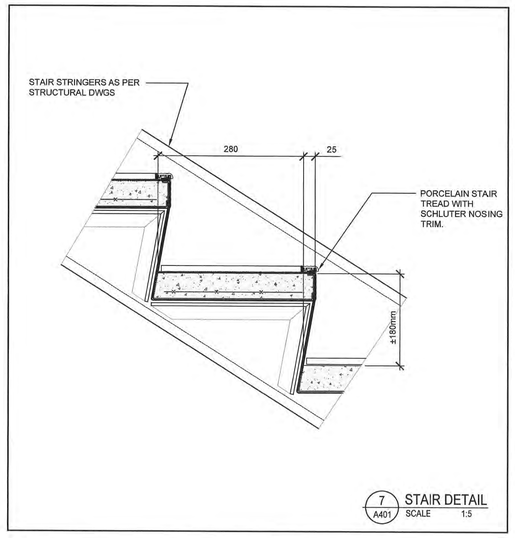


3 A401 STAIR SECTION SCALE 1:50



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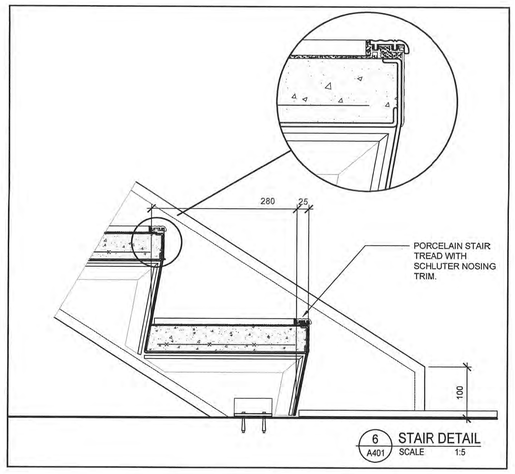

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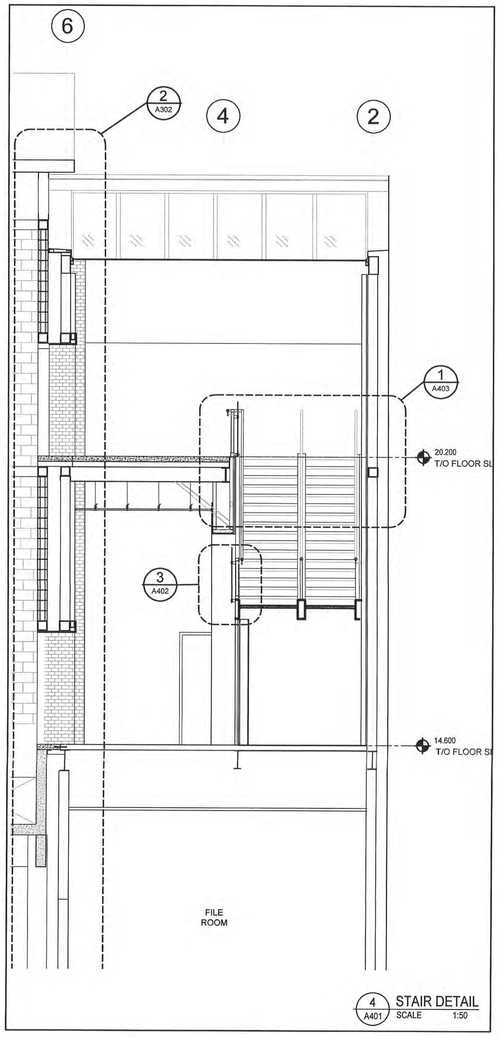

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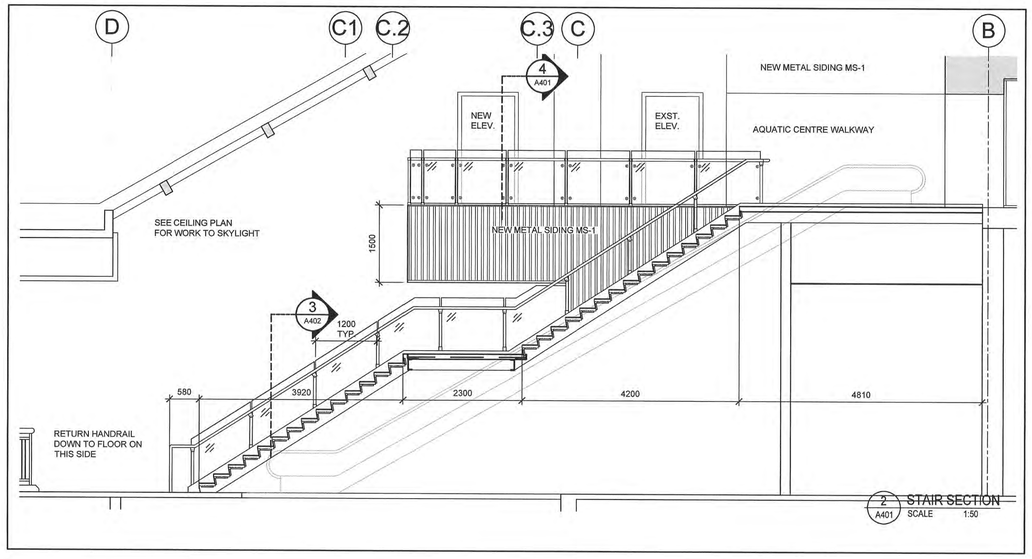

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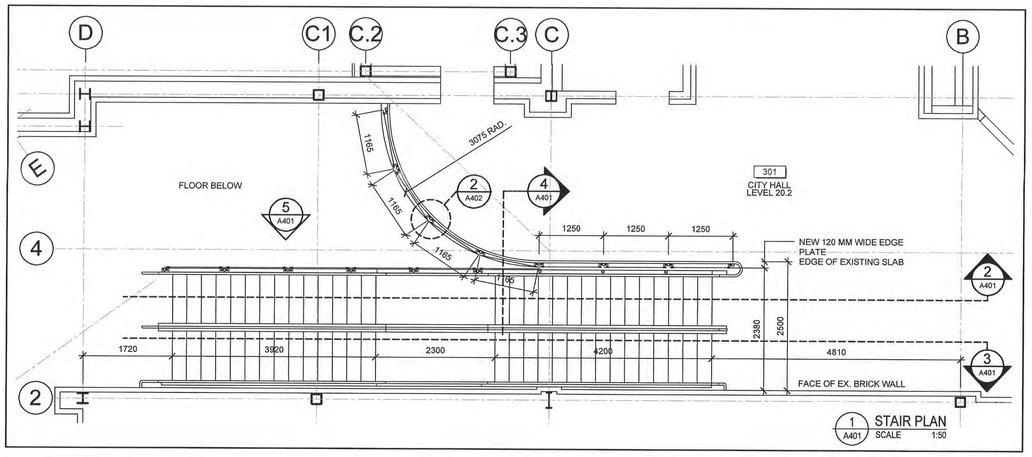

1 A401 STAIR PLAN SCALE 1:50

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ST. PATRICK PEDWAY ELEVATING DEVICES UPGRADE

ST. PATRICK STREET SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

STAIR SECTIONS & DETAILS

Date / Date	2023.10.06
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Consultant reference number / Numéro de référence de l'expert-conseil	

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2023-10-18

Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A401

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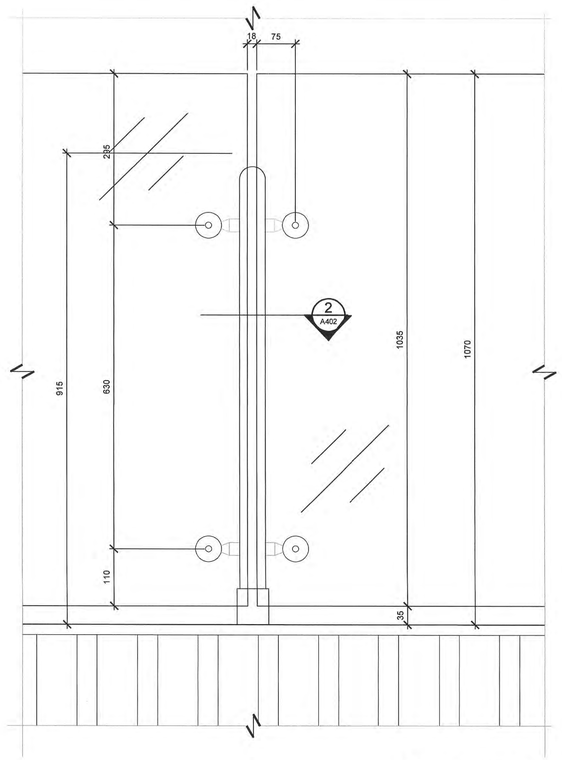

4 A402 STAIR POST ELEVATION
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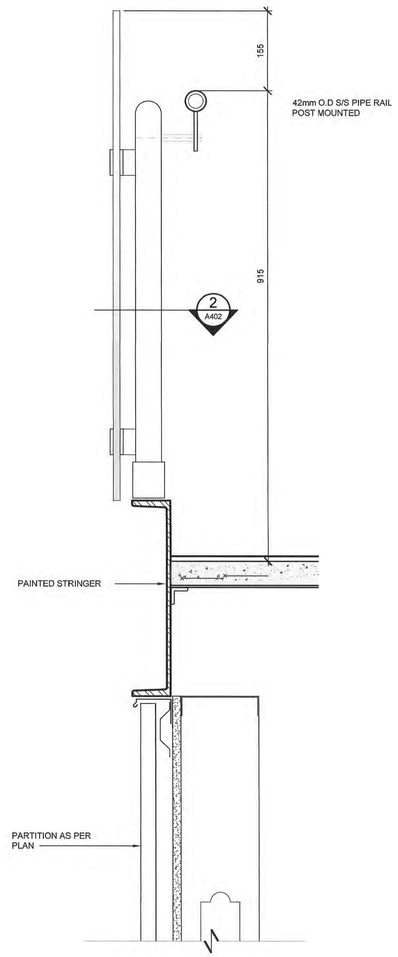

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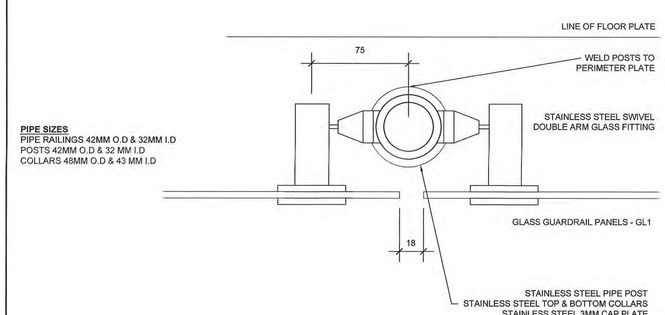
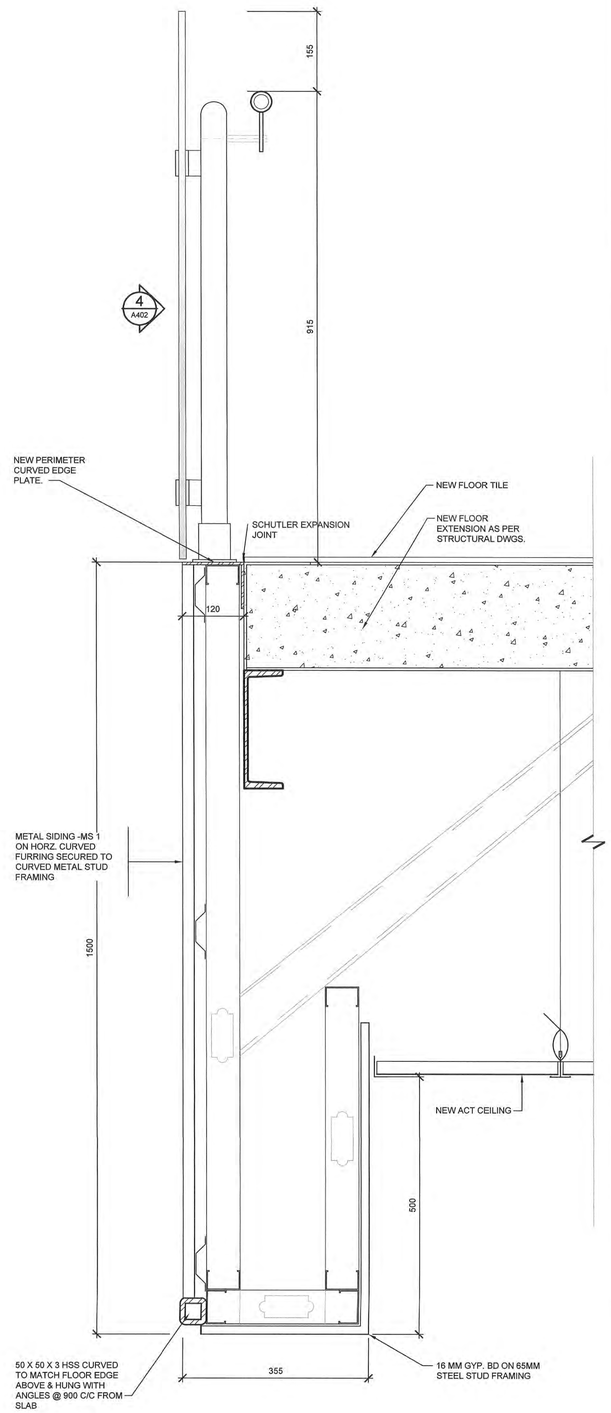


2 A402 STAIR POST DETAIL
SCALE 1:2



1 A402 STAIR DETAIL
SCALE 1:5

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ST. PATRICK PEDWAY ELEVATING DEVICES UPGRADE

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

STAIR DETAILS

Date 2023.10.06
Scale AS NOTED
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Approved by MRB
Consultant reference number

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19-719	A402

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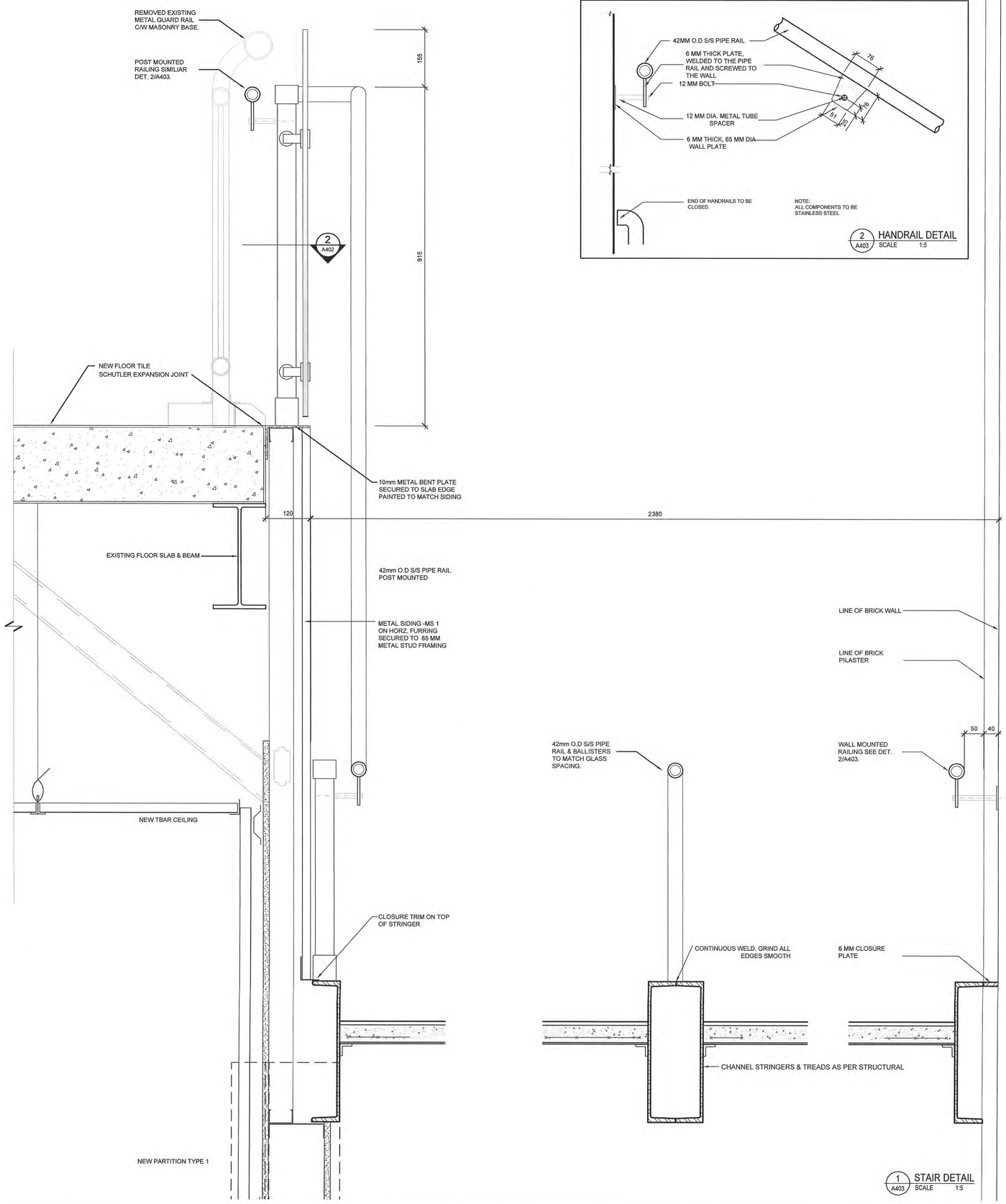

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ST. PATRICK STREET SAINT JOHN, NEW BRUNSWICK

Sheet Title / Titre de la feuille

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Approved by MRB / Approuvé par
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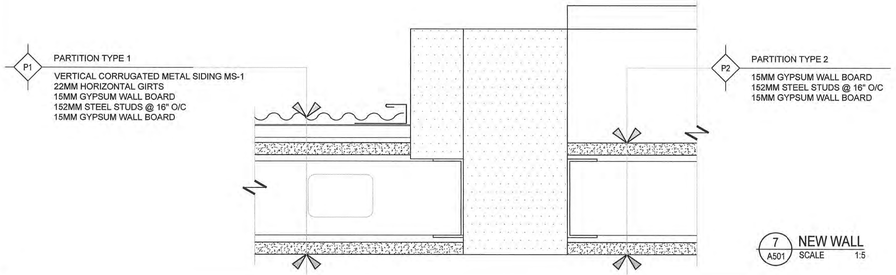
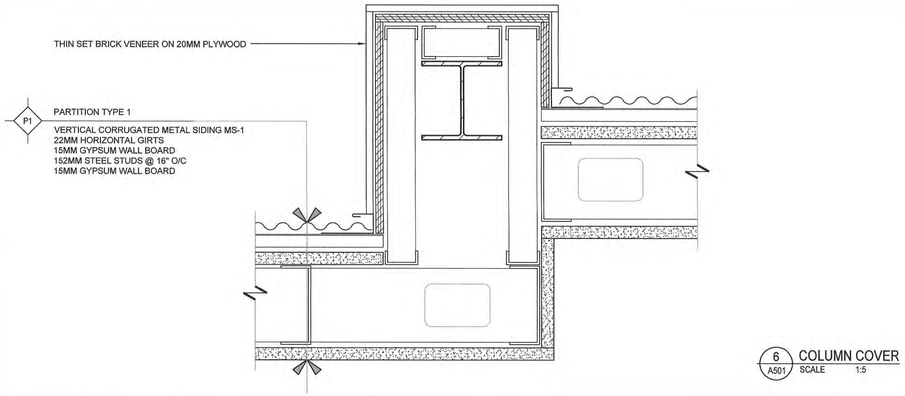
Stamp / Sceau

22001 CERTIFICATE of PRACTICE Malcolm R. Boyd MURDOCK & BOYD ARCHITECTS INC. MEMBER ASSOCIATION of NEW BRUNSWICK
2023-10-18

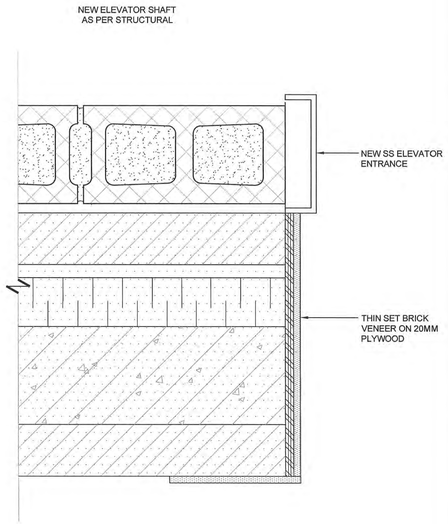
Project No. / Nº du projet: 19-719
Sheet No. / Nº de la feuille: A403



7 A501 NEW WALL
SCALE 1:5



6 A501 COLUMN COVER
SCALE 1:5



4 A501 NEW ELEVATOR OPENING
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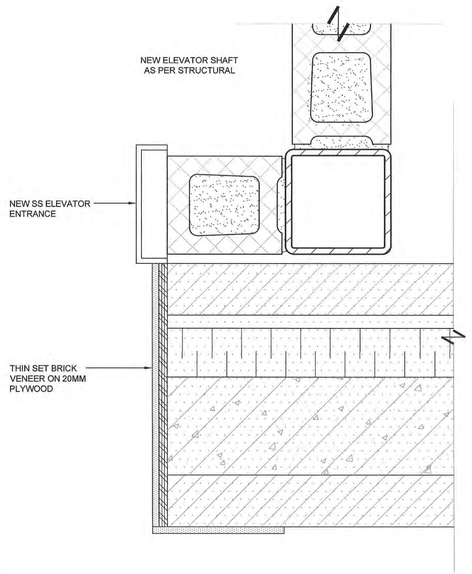

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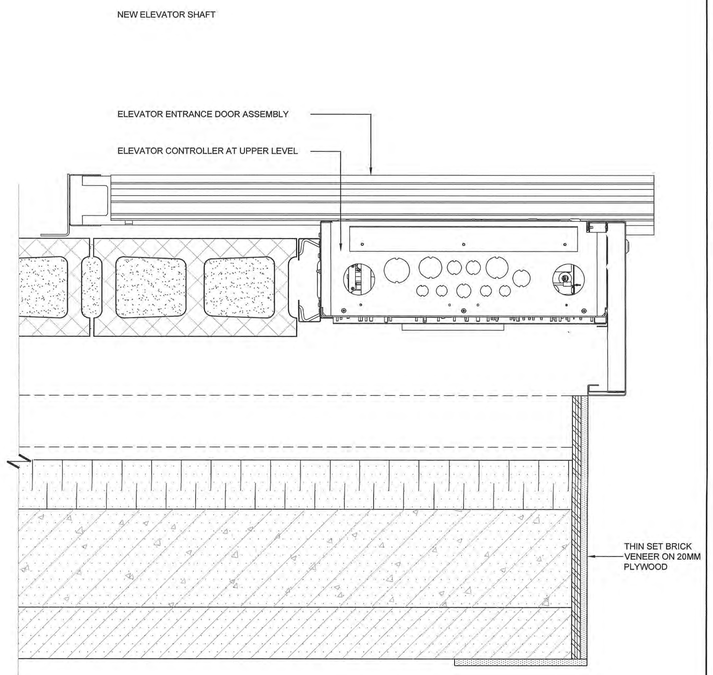
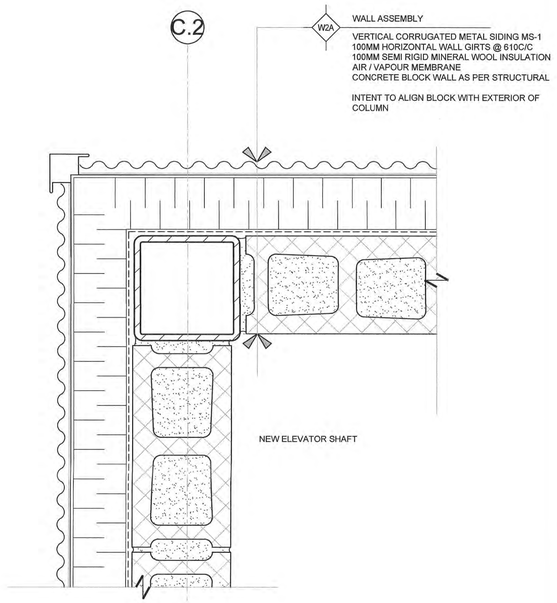


5 A501 NEW ELEVATOR OPENING AT CITY HALL LEVEL
SCALE 1:5



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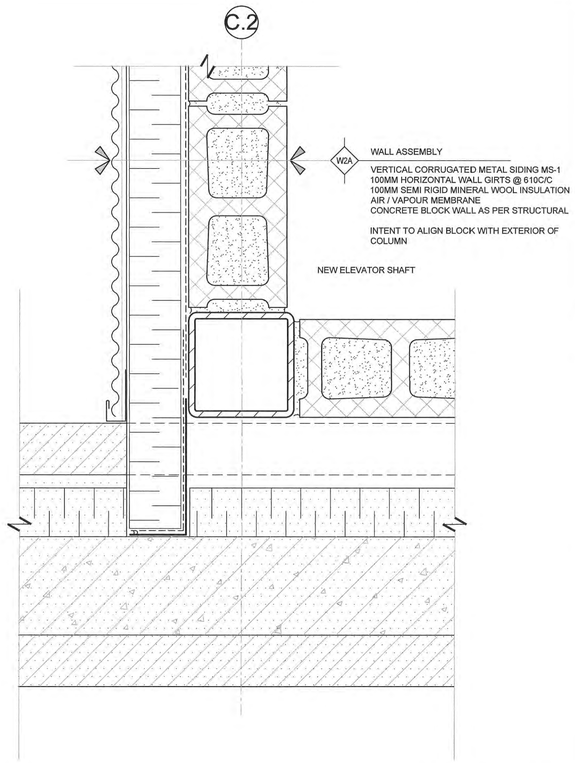

1 A501 NEW SHAFT DETAIL
SCALE 1:5

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EXISTING CONSTRUCTION

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Consultant / Expert-conseil

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ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

PLAN
DETAILS

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Drawn by / Dessiné par	EAS
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Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A501

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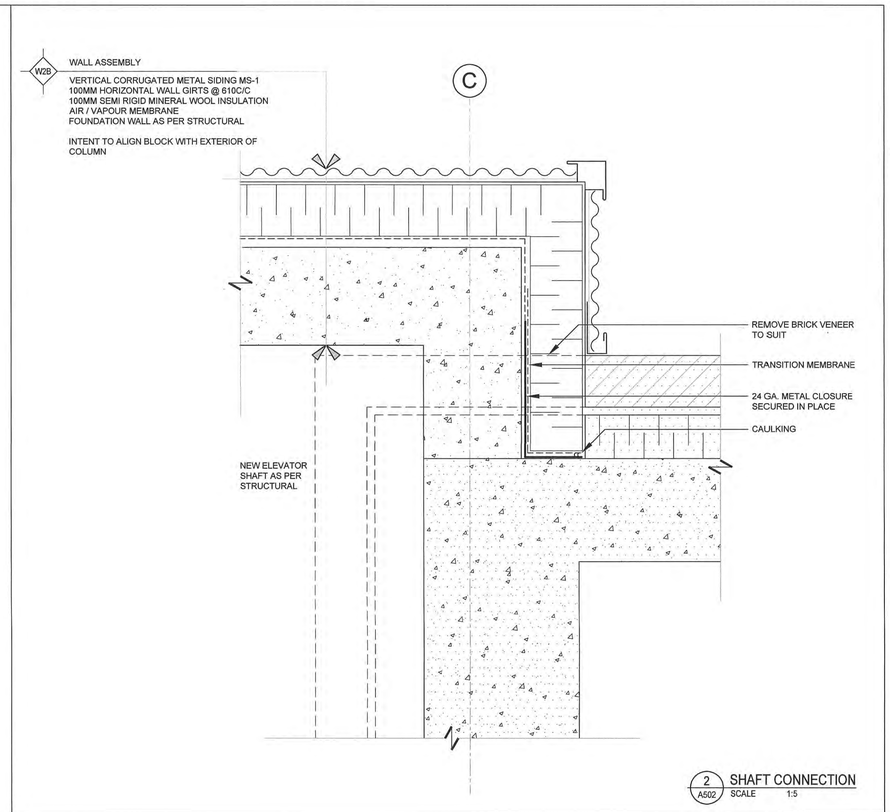

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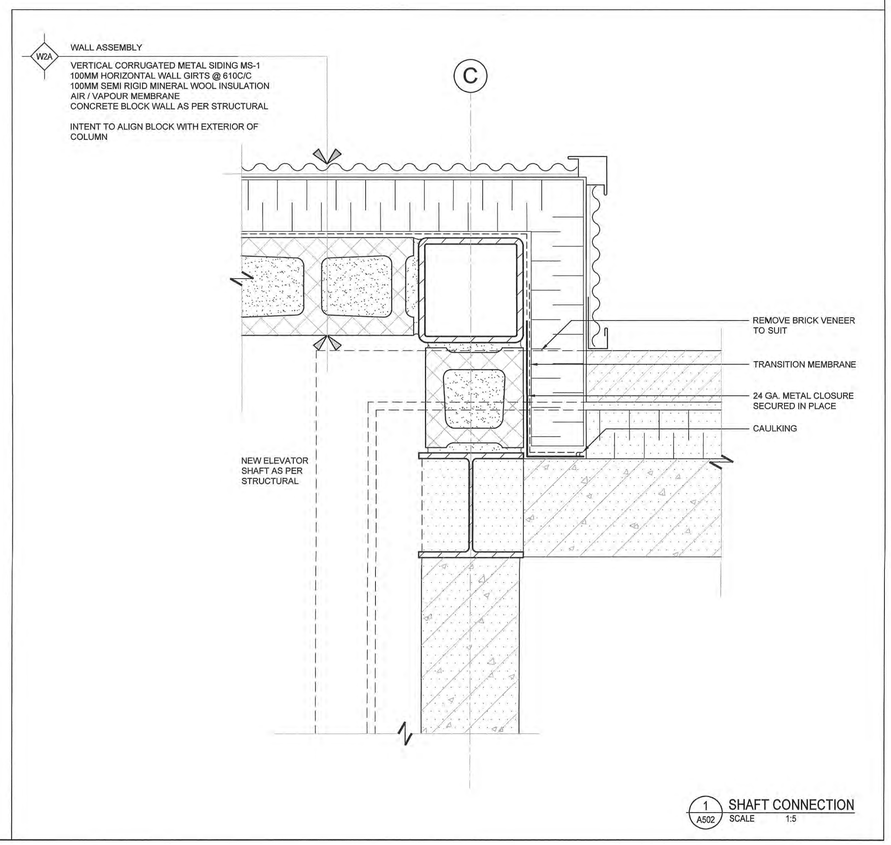

1 A502 SHAFT CONNECTION
SCALE 1:5

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EXISTING CONSTRUCTION

Revisions / Révisions	No/Nº	Date
ISSUED FOR TENDER	NO.1	2023/10/06

Consultant / Expert-conseil

Project Title / Titre du projet

ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

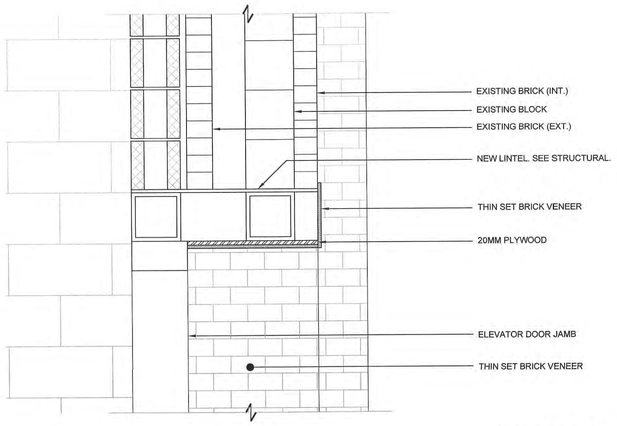
Sheet title / Titre de la feuille

PLAN
DETAILS

Date / Date	2023.10.06
Scale / Échelle	AS NOTED
Drawn by / Dessiné par	EAS
Approved by / Approuvé par	MRB
Consultant reference number / Numéro de référence de l'expert-conseil	

Stamp / Sceau: 22001 CERTIFICATE of PRACTICE — Malcolm R. Boyd, MURDOCK & BOYD ARCHITECTS INC., ASSOCIATION of NEW BRUNSWICK — 2023-10-18

Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A502



3 A601 SECTION DETAIL
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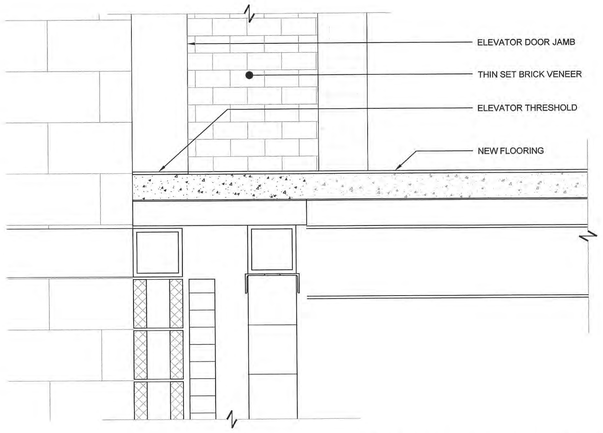

2 A601 CITY HALL LEVEL 20.2 SECTION DETAIL
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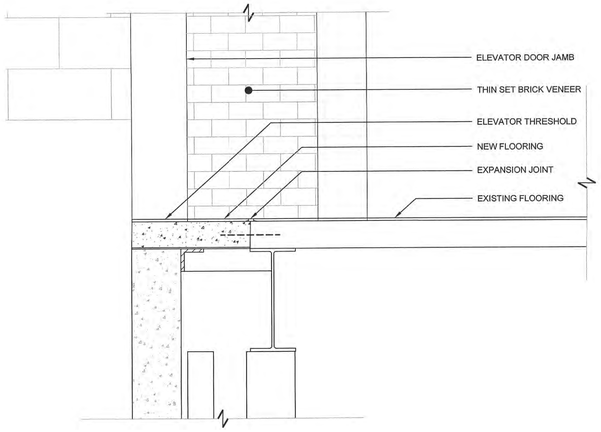

1 A601 CITY HALL LEVEL 14.6 SECTION DETAIL
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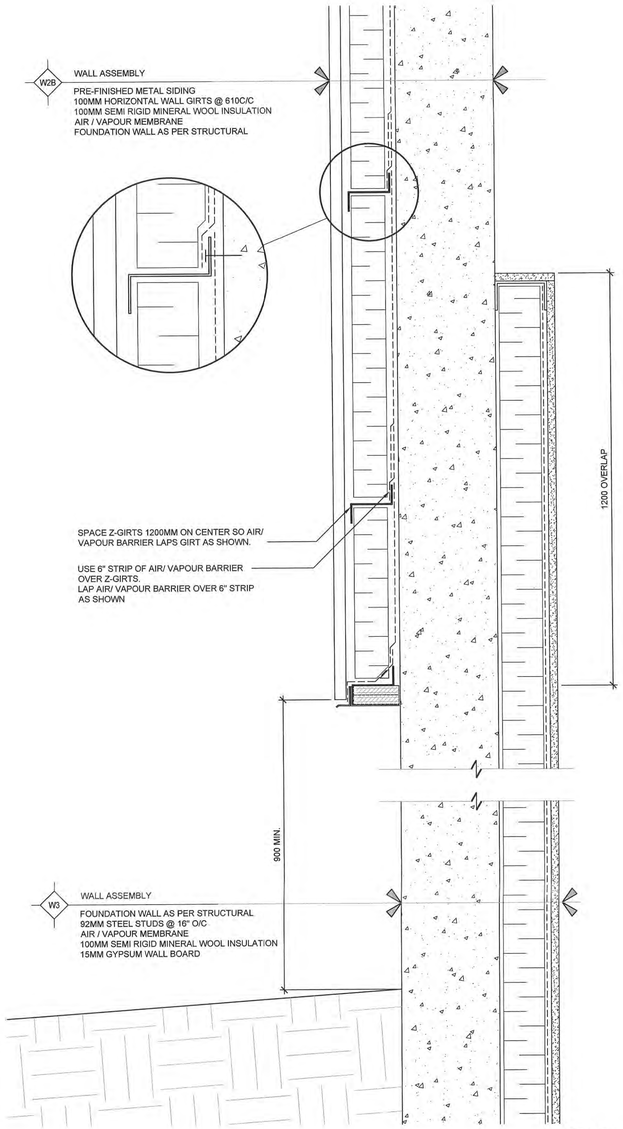

4 A601 SECTION DETAIL
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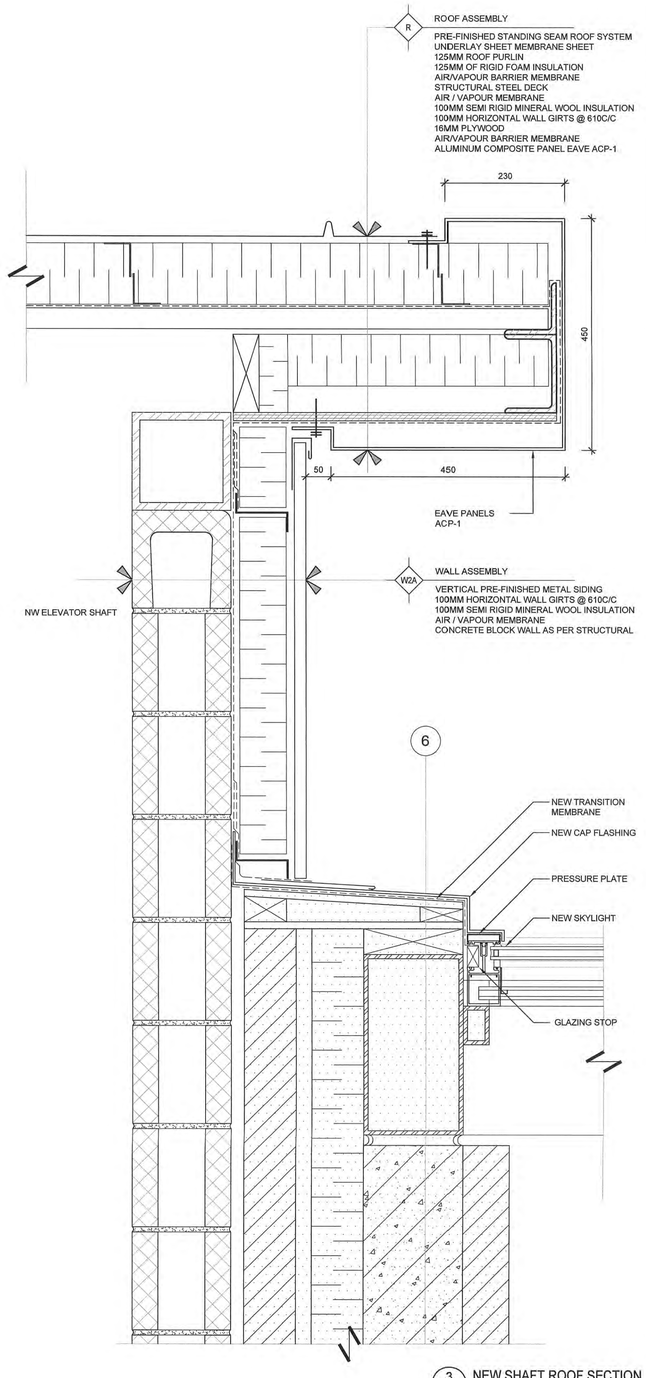
Project No. / Nº du projet	Sheet No. / Nº de la feuille
19-719	A601



3 A602 NEW SHAFT ROOF SECTION
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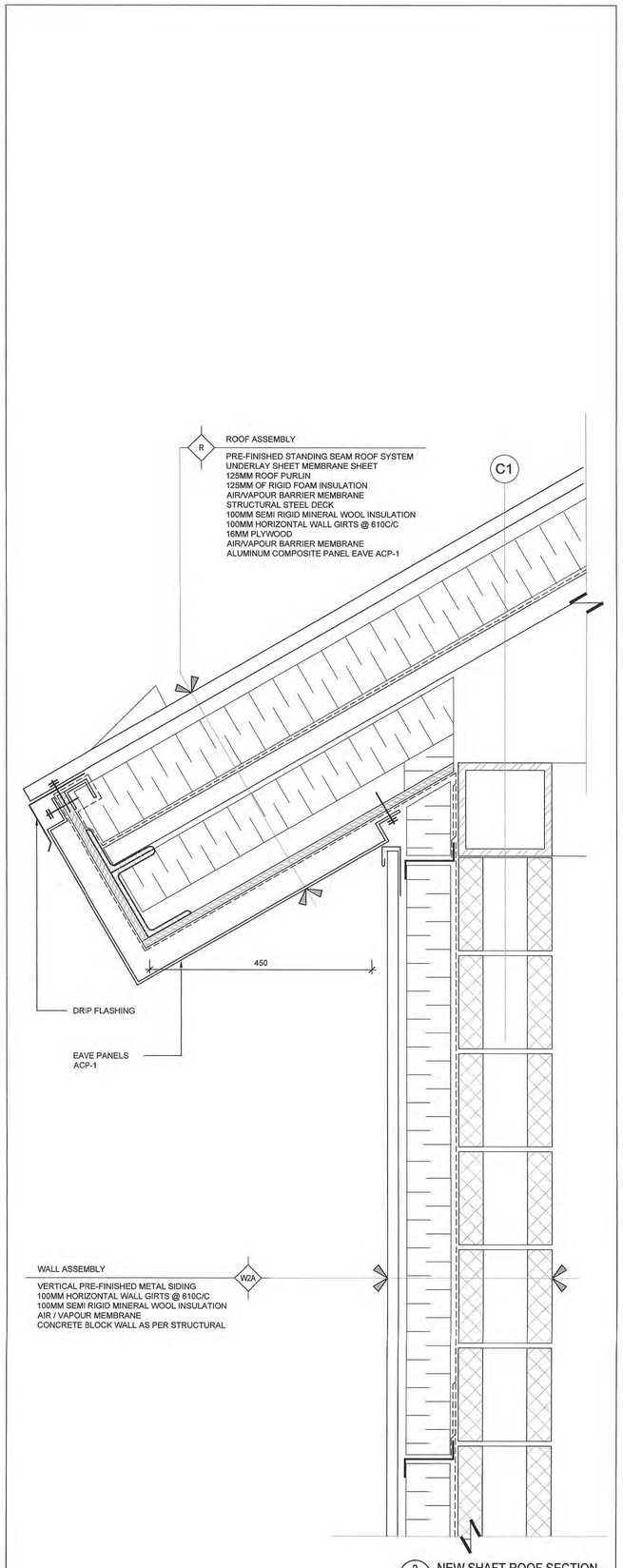

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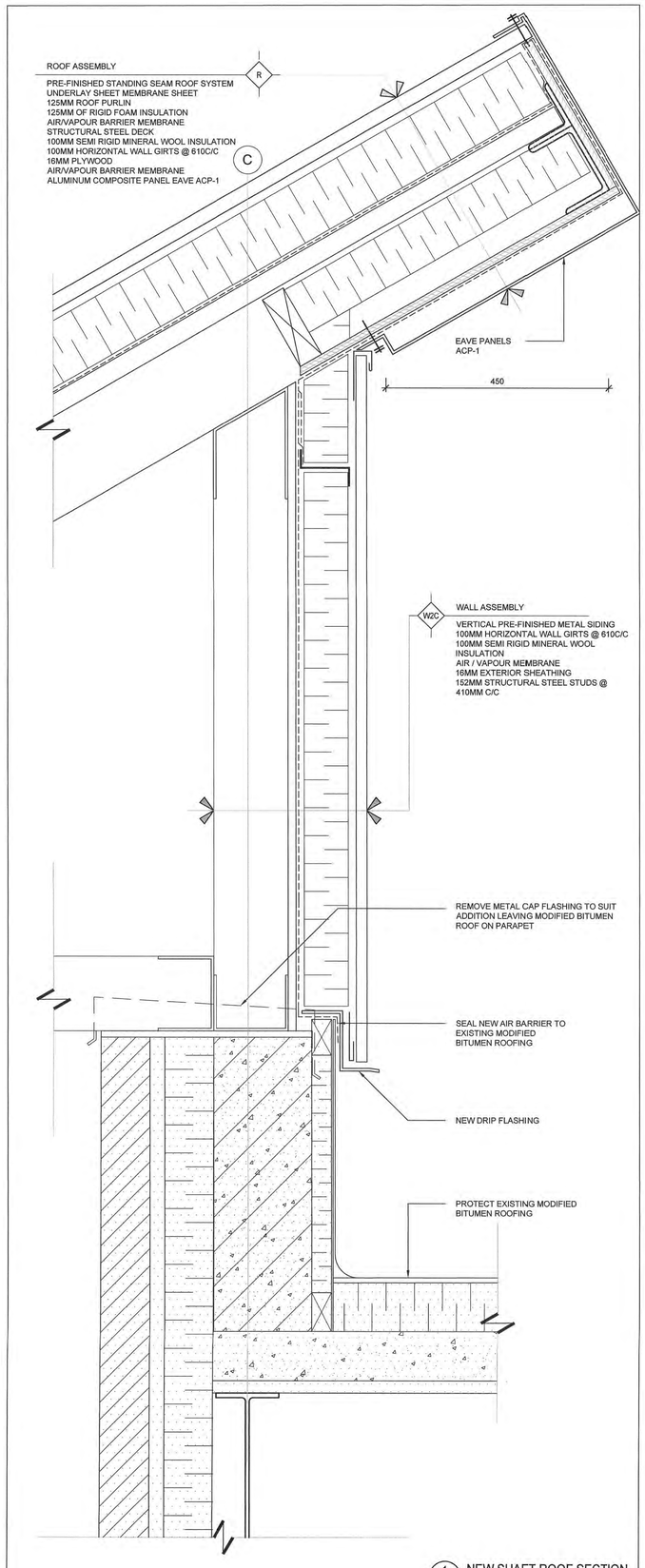

1 A602 NEW SHAFT ROOF SECTION
SCALE 1:5

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Stamp / Sceau: 22001 CERTIFICATE OF PRACTICE Malcolm R. Boyd MURDOCK & BOYD ARCHITECTS INC. ASSOCIATION OF NEW BRUNSWICK 2023.10.18

Project No. / Nº du projet: **19-719**
Sheet No. / Nº de la feuille: **A602**

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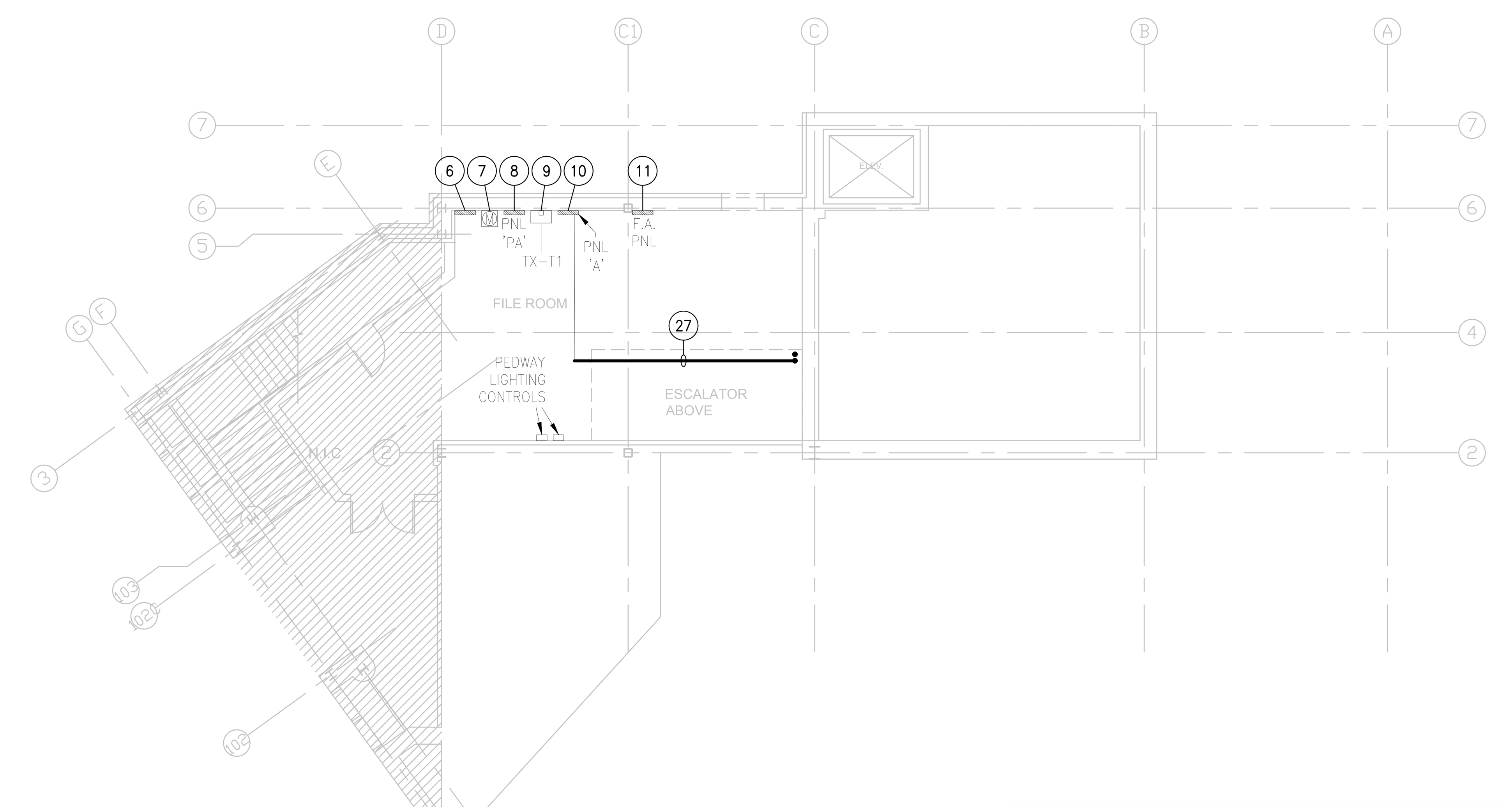
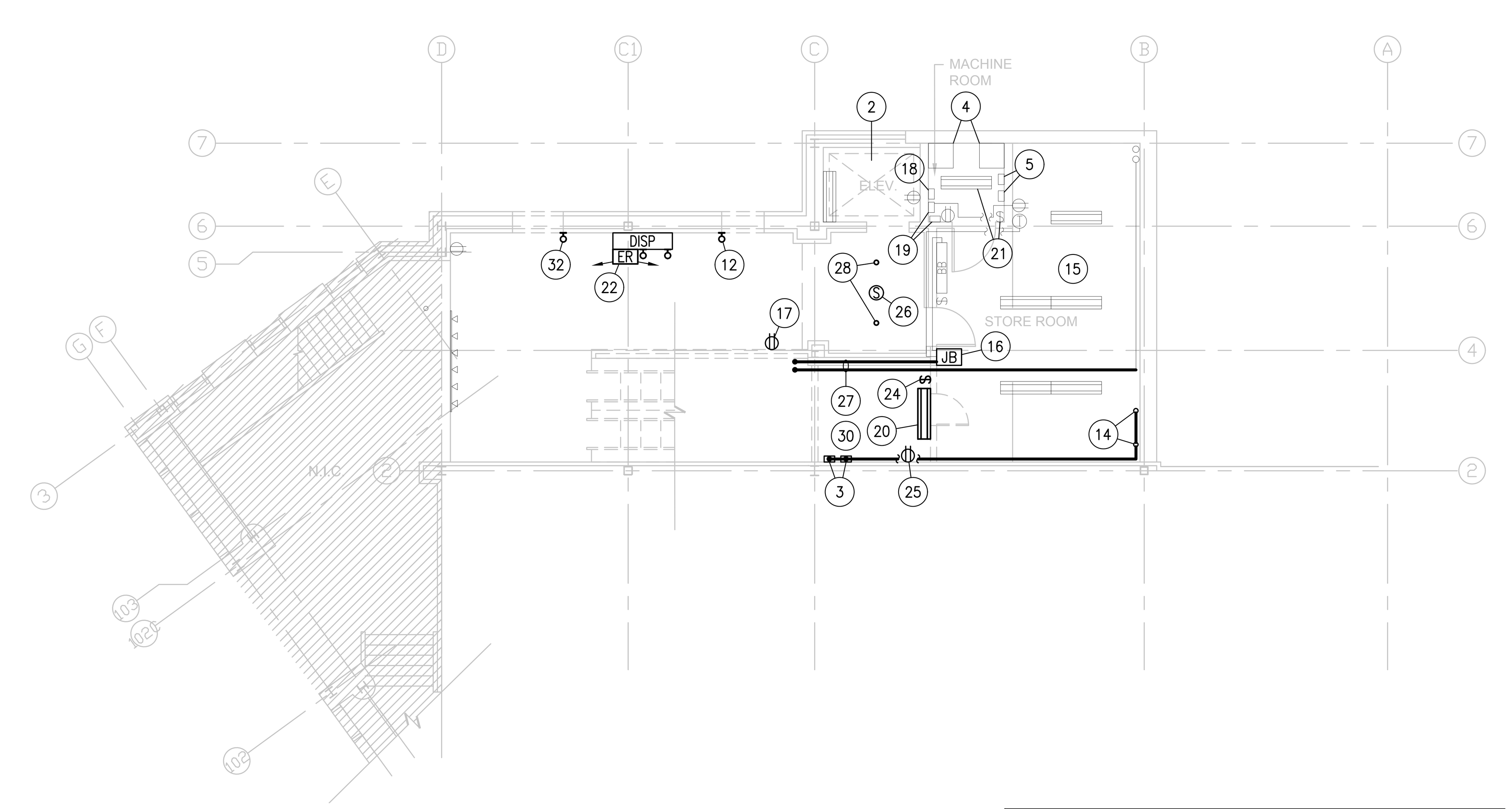


EXISTING ELECTRICAL WORK TO REMAIN SHOWN IN LIGHT. U.N.O. EXISTING ELECTRICAL WORK NOT SHOWN ON DEMO PLANS IS TO REMAIN.
EXISTING ELECTRICAL WORK TO BE REMOVED OR REPLACED, AS NOTED, SHOWN IN DARK.

1 / E101 LEVEL 9.4 - DEMOLITION LAYOUT
SCALE 1:100



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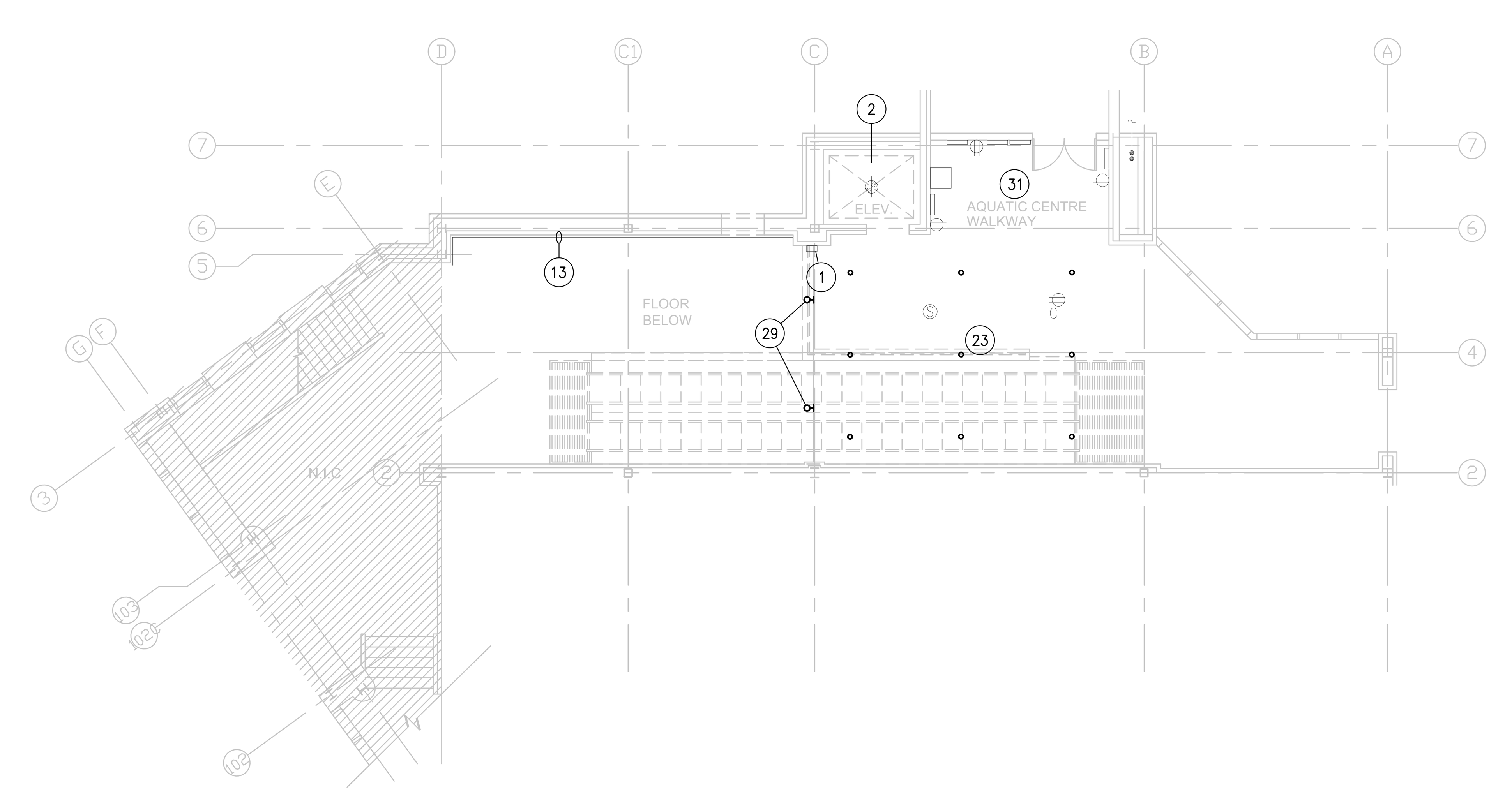
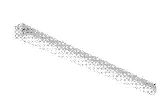
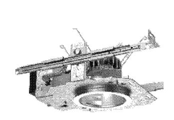
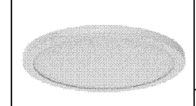
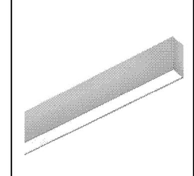
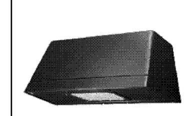
2 / E101 LEVEL 14.6 - DEMOLITION LAYOUT
SCALE 1:100



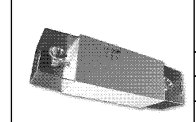
EXISTING ELECTRICAL WORK TO REMAIN SHOWN IN LIGHT. U.N.O. EXISTING ELECTRICAL WORK NOT SHOWN ON DEMO PLANS IS TO REMAIN.
EXISTING ELECTRICAL WORK TO BE REMOVED OR REPLACED, AS NOTED, SHOWN IN DARK.

3 / E101 LEVEL 20.2 - DEMOLITION LAYOUT
SCALE 1:100

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION		
A 	**LED STRIP LIGHT.** 4' LENGTH. METAL CONSTRUCTION. DIFFUSE LENS	SOURCE:	INTEGRAL LED, 80+ CRI
		VOLTAGE:	120V INTEGRAL DRIVER
		LUMENS:	3,967
		WATTAGE:	29
		CCT:	3500K
		DIMMING:	N/A
		RATINGS:	N/A
	MOUNTING: SURFACE ON CEILING.		
	MANUFACTURER: LITHONIA #ZL1D L48 3000LM FST MVOLT 35K 80CRI		
	MANUFACTURER: METALUX #4SNX-31SL-SLW-UNV-L835-1-U		
	MANUFACTURER: SIGNIFY #FSS440L835UNV		
	MANUFACTURER: CURRENT #MPS4-35VW-CW-EU		
B 	**LED DOWNLIGHT.** 4" DIAMETER. METAL CONSTRUCTION. SPECULAR CLEAR FINISH.	SOURCE:	INTEGRAL LED, 80+ CRI
		VOLTAGE:	120V INTEGRAL DRIVER
		LUMENS:	1,981
		WATTAGE:	22
		CCT:	3500K
		DIMMING:	N/A
		RATINGS:	N/A
	MOUNTING: RECESSED IN CEILING		
	MANUFACTURER: LITHONIA #LDN4 35 20 LO4AR LSS MVOLT		
	MANUFACTURER: HALO #HC420D010/HM40525835/41MDC		
	MANUFACTURER: SIGNIFY #4RN-P4RDL20935MCCU		
	MANUFACTURER: CURRENT #LTR-4RD-H-ML/LTR-4RD-T-ML-35K-8-MD-SS		
C 	**LED SURFACE DOWNLIGHT**. 13" ROUND. METAL CONSTRUCTION. WHITE FINISH WITH DIFFUSE LENS.	SOURCE:	INTEGRAL LED, 90+ CRI
		VOLTAGE:	120V INTEGRAL DRIVER
		LUMENS:	1,844
		WATTAGE:	20
		CCT:	3500K
		DIMMING:	N/A
		RATINGS:	N/A
	MOUNTING: JUNCTION BOX MOUNTED, SURFACE ON CEILING.		
	MANUFACTURER: JUNO #JSF 13IN 18LM 35K 90CRI MVOLT ZT WH		
	MANUFACTURER: HALO #SMD12R-20-9S-WH-E		
	MANUFACTURER: SIGNIFY #SD14RSLMSCTUW		
	MANUFACTURER: LOTUS LED #ADS12R905CCT-WH		
D 	**4' LINEAR DOWNLIGHT.** 2" DEEP X 4" HIGH. METAL CONSTRUCTION. WHITE FINISH WITH FLUSH WHITE DIFFUSE LENS.	SOURCE:	INTEGRAL LED, 80+ CRI
		VOLTAGE:	120V INTEGRAL DRIVER
		LUMENS:	675/FT
		WATTAGE:	6.7/FT
		CCT:	3500K
		DIMMING:	N/A
		RATINGS:	N/A
	MOUNTING: SURFACE ON WALL		
	MANUFACTURER: COOPER #S122DW-S675D835-4F0-1E-UDD-F		
	MANUFACTURER: MARK #S2WD-LLP-4FT-MSL4-80CRI-35K-600LMF-SCT-FLL-MVOLT-WHT		
	MANUFACTURER: SIGNIFY #TM21L935L3004D1NNN		
	MANUFACTURER: LITECONTROL #2L-W-D-4-04-SOF-CI-35K9-D700-1C-UNV		
F 	**WALL LUMINAIRE.** 9" DEEP X 7" HIGH X 16-1/2" WIDE. METAL CONSTRUCTION. BLACK FINISH WITH FORWARD THROW LIGHT DISTRIBUTION.	SOURCE:	INTEGRAL LED, 70+ CRI
		VOLTAGE:	120V INTEGRAL DRIVER
		LUMENS:	6,716
		WATTAGE:	58
		CCT:	3500K
		DIMMING:	N/A
		RATINGS:	N/A
	MOUNTING: SURFACE ON WALL		
	MANUFACTURER: MCGRAW #IST-SA1E-735-U-T4FT-BK		
	MANUFACTURER: LITHONIA		
	MANUFACTURER: SIGNIFY		
	MANUFACTURER: CURRENT		

EXIT & EMERGENCY LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION		
E 	**2-HEAD EMERGENCY LIGHT C/W BATTERY** (BATTERY SIZED FOR 30 MIN. OPERATION- MINIMUM). C/W NON-AUDIBLE AUTO-DIAGNOSTIC FUNCTION.	SOURCE	INTEGRAL LED, 80+ CRI
		VOLTAGE	120V INTEGRAL DRIVER
		WATTAGE	2 X 5W
	MOUNTING: SURFACE ON WALL OCTAGON BOX WHERE SHOWN; SEE DWG E001 FOR MOUNTING HEIGHT		
	MANUFACTURER: AIMLITE #EBQV-12072-2 5WLA LMR16 WHT/ATD		
	MANUFACTURER: LUMACELL #RG1272 QB 2LD9 ATN		
	MANUFACTURER: READY-LITE #LDX12-72VQ-ADN-LD9		
	GENERAL NOTES:		
G1	CATALOG NUMBERS INDICATED IN THE FIXTURE SCHEDULE ARE A DESIGN SERIES REFERENCE AND DO NOT NECESSARILY REPRESENT THE EXACT CATALOG NUMBER, SIZE, VOLTAGE, WATTAGE, FINISH TRIM, CEILING TYPE, MOUNTING HARDWARE OR SPECIAL REQUIREMENTS AS SPECIFIED OR AS REQUIRED BY THE PARTICULAR INSTALLATIONS. PROVIDE COMPLETE LUMINAIRE TO CORRESPOND WITH THE FEATURES, ACCESSORIES, WATTAGE AND/OR SIZE SPECIFIED IN THE TEXT DESCRIPTION OF EACH LUMINAIRE TYPE. ADDITIONAL FEATURES, ACCESSORIES AND OPTIONS SPECIFIED SHALL BE INCLUDED. ALL LIGHT FIXTURES MUST BE LISTED, APPROVED OR CERTIFIED FOR USE IN CANADA FOR THE APPLICATION.		
G2	LUMENS INDICATED IS 'DELIVERED LUMENS'.		
G3	THERE IS TO BE CAREFUL COORDINATION OF LIGHT FIXTURE INSTALLATION REQUIREMENTS WITH RESPECT TO CEILING CONSTRUCTION PRIOR TO ORDER OF LIGHT FIXTURES.		
G4	CONTRACTOR TO COORDINATE SECONDARY WIRE SIZES FROM REMOTE DRIVERS TO FIXTURES TO ENSURE THAT VOLTAGE DROP DOES NOT EXCEED 5% OR MANUFACTURERS RECOMMENDATION, WHICHEVER IS LESS.		

5 / E101 FIXTURE SCHEDULE
SCALE N.T.S.

POWER LEGEND

SYMBOL	POWER LEGEND
	EXISTING RECESSED PANELBOARD.
	EXISTING SURFACE MOUNTED PANELBOARD, U.N.O.
	15A, 120V 'U-GROUND' DUPLEX RECEPTACLE C/W COVERPLATE. MOUNTED 450mm A.F.F., U.N.O.
	15A, 120V 'U-GROUND' GROUND FAULT DUPLEX RECEPTACLE C/W COVERPLATE.
M	EXISTING UTILITY METER.
TX-EL	NEW WALL MOUNTED 600V-480V, 15KVA, DRY-TYPE TRANSFORMER FOR ELEVATORS. COORDINATE WITH ELEVATOR SUPPLIER.
	SURFACE CONDUIT, U.N.O.
	CONDUIT UP.
	CONDUIT DOWN.
T	EXISTING THERMOSTAT.
BB	EXISTING ELECTRIC BASEBOARD HEATER.
JB	EXISTING JUNCTION BOX.
	MANUAL MOTOR STARTER SWITCH C/W PILOT LIGHT & LOCKOUT TAB.
R	RELAY BY MECHANICAL.
	EQUIPMENT BY OTHERS. REFER TO EQUIPMENT SCHEDULE FOR CONNECTION DETAILS.

SYSTEMS LEGEND

SYMBOL	SYSTEMS LEGEND
	FIRE ALARM PULL STATION.
	FIRE ALARM SMOKE DETECTOR WIRED TO NEAREST INITIATING DEVICE.
FRM	FIRE ALARM RELAY MODULE.
	FIRE ALARM 2-WIRE INITIATING CIRCUIT WIRING.
S	EXISTING CEILING MOUNTED SPEAKER.
FZM	FIRE ALARM ZONE MODULE.
	END OF LINE RESISTOR.
	SUPERVISED SPRINKLER VALVE.

LIGHTING LEGEND

SYMBOL	LIGHTING LEGEND
	EXISTING 4" POT LIGHT.
A	LIGHT FIXTURE. LETTER INDICATES TYPE IN FIXTURE SCHEDULE.
	EXISTING 4' (1219mm) FLUORESCENT STRIP LIGHT.
	EXISTING WALL LIGHT TO BE REPLACED/REMOVED AS INDICATED.
	EXISTING TRACK LIGHTS TO REMAIN.
	EXIT LIGHT. SHADED SECTION INDICATES ILLUMINATED SIGN FACE.
	EXIT LIGHT COMBO UNIT. ARROWS INDICATE AIMING DIRECTION OF EMERGENCY HEADS, SHADED SECTION INDICATES ILLUMINATED SIGN FACE.
$	LIGHT SWITCH. NUMBER OF STROKES EQUALS NUMBER OF GANGED SWITCHES.
	EMERGENCY LIGHTING DC WIRING.
DISP	EXISTING DISPLAY CABINET WITH 3 INTERNAL SPOT LIGHTS TO BE REMOVED.
E	2-HEAD EMERGENCY LIGHT.
ER	2-HEAD REMOTE EMERGENCY LIGHT.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR.
C	CEILING MOUNTED.
C/W	COMPLETE WITH.
E	EXISTING TO REMAIN.
EC	ELECTRICAL CONTRACTOR.
FA	FIRE ALARM.
OC	LINE VOLTAGE WALL OCCUPANCY SENSOR.
U.N.O.	UNLESS NOTED OTHERWISE.

DRAWING LIST

E101 ELECTRICAL DEMOLITION LAYOUTS & LEGEND
E102 ELECTRICAL NEW LAYOUTS & SCHEDULES

NOTES

1. EXISTING SURFACE BOX AND CONDUIT TO REMAIN FOR CONTROLS.
2. EXISTING ELEVATOR TO REMAIN. EXISTING LIGHT FIXTURE, RECEPTACLE, AND SMOKE ALARM IN ELEVATOR SHAFT TO REMAIN.
3. EXISTING 30A, 600V DISCONNECTS FOR 'UP' AND 'DOWN' ESCALATOR CONTROLS TO BE REMOVED ALONG WITH THEIR WIRING, CONDUITS AND JUNCTION BOXES.
4. POWER TO EXISTING ELEVATOR CONTROLLERS TO REMAIN.
5. EXISTING ELEVATOR DISCONNECTS TO REMAIN.
6. EXISTING 200A, 600V SERVICE ENTRANCE FUSED DISCONNECT TO REMAIN.
7. EXISTING 200A SERVICE UTILITY METER #1763374 TO REMAIN.
8. EXISTING 250A, 600V SIEMENS P2 PANEL 'PA' TO REMAIN.
9. EXISTING LIGHTING CONTROL BOXES TO REMAIN. EXISTING 600V-208V TRANSFORMER 'T1' TO REMAIN.
10. EXISTING 225A, 208V WESTINGHOUSE NBA PANEL 'A' TO REMAIN.
11. EXISTING FIRE ALARM PANEL TO REMAIN.
12. EXISTING WALL LIGHT FIXTURE TO BE REMOVED.
13. EXISTING SURFACE CONDUIT ALONG WALL NEAR CEILING TO REMAIN.
14. EXISTING CONDUIT, BOXES, AND WIRING FROM ESCALATOR UP/DOWN DISCONNECT SWITCHES TO KILL SWITCHES AT TOP OF ESCALATOR TO BE REMOVED.
15. EXISTING LIGHTING TO REMAIN.
16. EXISTING JUNCTION BOX TO BE COORDINATED WITH NEW WALL.
17. EXISTING RECEPTACLE AND BACKBOX/CONDUIT TO BE REMOVED. EXISTING CIRCUIT TO BE RE-USED FOR NEW RECEPTACLE.
18. EXISTING TELEPHONE LINE JUNCTION BOX C/W CABLE TO REMAIN.
19. EXISTING SPEAKER AND PLUG JUNCTION BOXES, WIRING, AND CONDUIT TO REMAIN.
20. EXISTING STRIP LIGHT TO BE REMOVED.
21. EXISTING LIGHT FIXTURE, WIRING, CONDUIT, AND BOXES TO REMAIN.
22. EXISTING EMERGENCY LIGHT, WIRING, SURFACE CONDUIT FROM DISPLAY, AND BACK BOX TO BE REMOVED.
23. EXISTING 9 POT LIGHTS TO BE REMOVED. EXISTING OUTLET BOXES AND WIRING TO REMAIN.
24. EXISTING LIGHT SWITCH, WIRING, CONDUIT, BACK BOX TO BE REMOVED.
25. EXISTING RECEPTACLE, BOX, CONDUIT AND WIRING TO BE REMOVED.
26. EXISTING SPEAKER TO BE REMOVED AND RE-INSTATED IN NEW CEILING.
27. REMOVE SECTION OF CONDUIT/WIRING INDICATED FOR RELOCATION. TRACE CIRCUITS PRIOR TO REMOVAL AND COORDINATE WITH OWNER FOR CIRCUITS AFFECTED.
28. EXISTING POTLIGHTS TO BE REMOVED. MAINTAIN EXISTING CIRCUIT/CONTROL FOR NEW LIGHTING.
29. EXISTING DIRECTIONAL WALL LIGHTS TO BE REMOVED. POWER/CONTROL TO BE REUSED FOR NEW LIGHTING.
30. ALL ELECTRICAL BOXES TO BE REMOVED IN ROOM UNDER ESCALATORS. ALL FEEDERS AND CONDUIT TO REMAIN ARE TO BE CONTINUOUS THROUGH ROOM BEING CLOSED OFF.
31. EXISTING EQUIPMENT MOUNTED NEAR CEILING TO REMAIN.
32. WIRING/CONTROL TO REMAIN FOR NEW FIXTURE IN EXISTING LOCATION. CONTRACTOR TO ENSURE WIRING IS MAINTAINED WHEN FIXTURE NEAR NEW ELEVATOR IS REMOVED.

CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTING THE WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS. CONSTRUCT THE WORK IN ACCORDANCE WITH NBCC 2015.

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Revisions / Révisions	No/Nº	Date
IFT SUBMISSION	0	2023.10.05

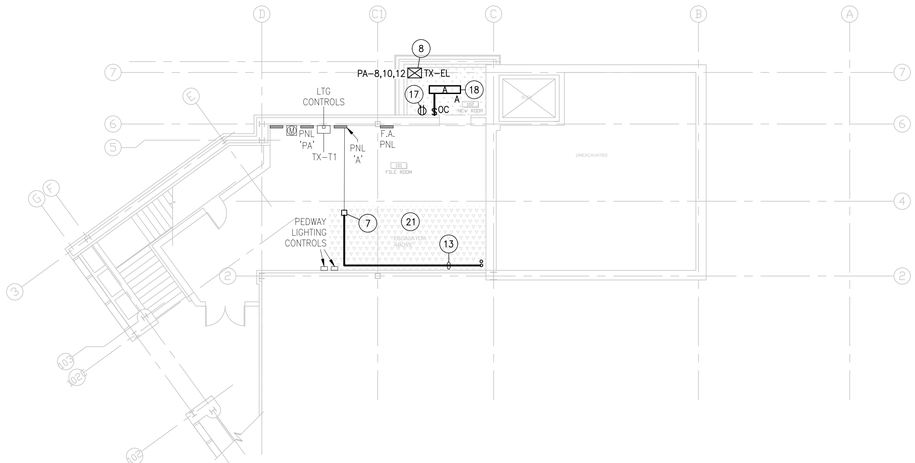
Consultant / Expert-conseil
RSEI Consultants Ltd.
564 Prospect St, Fredericton, NB Canada E3B 9M3 • 506.451.0005

Project Title / Titre du projet
ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION
ST. PATRICK STREET SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille
ELECTRICAL DEMOLITION LAYOUTS & LEGEND

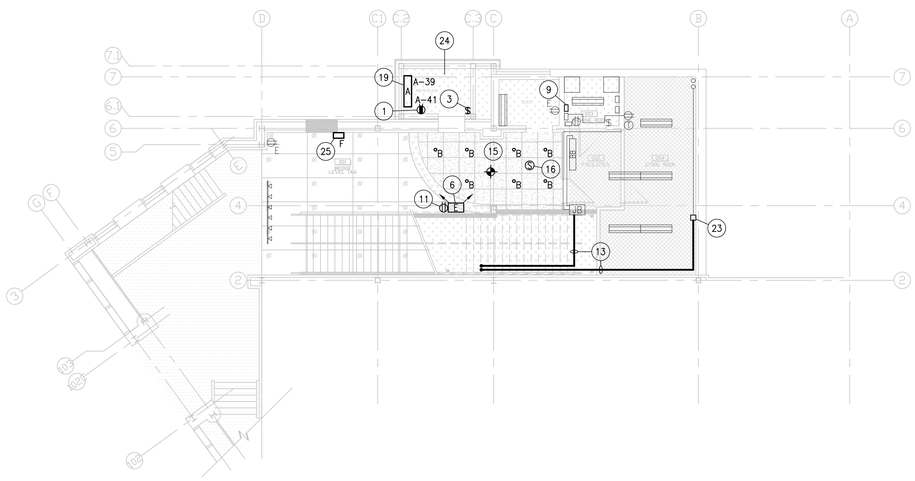
Date / Date: 2023.10.05
Scale / Échelle: AS NOTED
Drawn by / Dessiné par: WKG/TMD
Approved by / Approuvé par: JDR/TLM
Consultant reference number / Numéro de référence de l'expert-conseil: 2223
Stamp / Sceau

Project No. / Nº du projet: **20-747**
Sheet No. / Nº de la feuille: **E101**



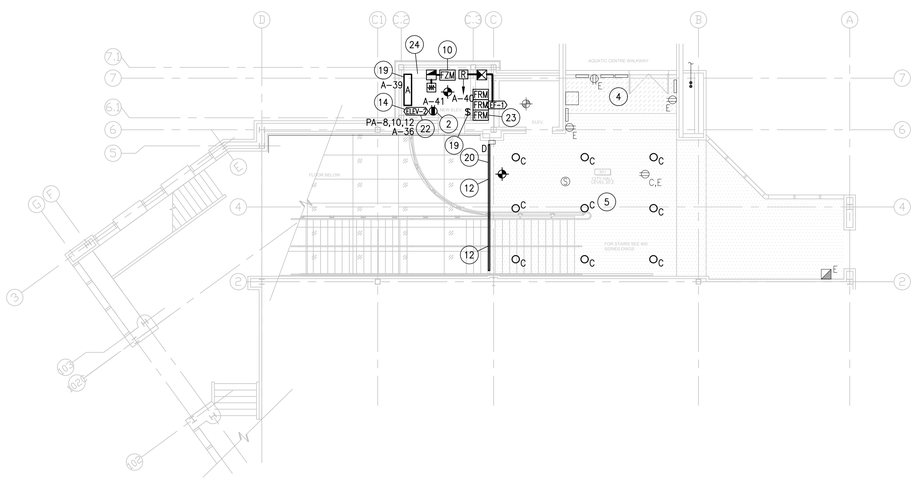
1 LEVEL 9.4 - ELECTRICAL LAYOUT
E102 SCALE 1:100

EXISTING ELECTRICAL WORK SHOWN IN LIGHT.
NEW ELECTRICAL WORK SHOWN IN DARK.



2 LEVEL 14.6 - ELECTRICAL LAYOUT
E102 SCALE 1:100

EXISTING ELECTRICAL WORK SHOWN IN LIGHT.
NEW ELECTRICAL WORK SHOWN IN DARK.



3 LEVEL 20.2 - ELECTRICAL LAYOUT
E102 SCALE 1:100

EXISTING ELECTRICAL WORK SHOWN IN LIGHT.
NEW ELECTRICAL WORK SHOWN IN DARK.

PANEL: PA

POWER SUPPLY: 347/600V, 3PH, 4W
MAINS: 250A
NUMBER OF CIRCUITS: 30

EXISTING
SIEMENS TYPE 'P2'

FILE ROOM - LEVEL 9.4
SURFACE

REMARKS	DESCRIPTION	WATTAGE A	WATTAGE B	WATTAGE C	# P	BKR AMP	CIRCUIT			BKR AMP	# P	WATTAGE A	WATTAGE B	WATTAGE C	DESCRIPTION	REMARKS
E	LOBBY HEATER				3	20	1	a	2							
							3	b	4							
							5	c	6							
E	TRANSFORMER 2 - HEAT				3	40	7	a	8			5000				
							9	b	10	30	3		5000		ELEVATOR - NEW SHAFT	EN
							11	c	12					5000		
ER	SPARE				3	20	13	a	14							
							15	b	16	50	3				ELEVATOR - EXISTING SHAFT	E
							17	c	18							
E	A.C. - OVER ESCALATOR				3	50	19	a	20							
							21	b	22	50	3				TRANSFORMER 1 - PANEL 'A'	E
							23	c	24							
							25	a	26							
							27	b	28	100	3				A.C. - ST. PATRICK PEDWAY	E
							29	c	30							
	PHASE LOADS:											5000	5000	5000		
	TOTAL LOAD	15000														
	TOTAL PHASE LOADS	5000	5000	5000												
	+/- 5%	4762	5250													
	CURRENT (A) @ 600V:	14														

REMARKS:
A - ARC FAULT CIRCUIT INTERRUPTER
E - EXISTING BREAKER
EN - EXISTING BREAKER TO BE REPLACED WITH NEW BREAKER AS NOTED
ER - EXISTING BREAKER FOR ESCALATOR TO HAVE CONNECTIONS REMOVED
G - GROUND FAULT CIRCUIT INTERRUPTER
L - LOCK-ON DEVICE
N - NEW BREAKER

*SHADING INDICATES EXISTING UNKNOWN LOAD

PANEL: A

POWER SUPPLY: 120/208V, 3PH, 4W
MAINS: 225A
NUMBER OF CIRCUITS: 42

FED FROM TX-1 (PANEL PA) - 100A
EXISTING
WESTINGHOUSE TYPE 'NBA'

FILE ROOM - LEVEL 9.4
SURFACE

REMARKS	DESCRIPTION	WATTAGE A	WATTAGE B	WATTAGE C	# P	BKR AMP	CIRCUIT			BKR AMP	# P	WATTAGE A	WATTAGE B	WATTAGE C	DESCRIPTION	REMARKS
E	ELECTRICAL RM - LTS				1	15	1	a	2	15	1				SKYWALK WALL - RECEPTS	E
E	STORAGE RM & ELEV. RM - LTS				1	15	3	b	4	15	1				AQUATIC LINK - RECEPTS	E
E	AQUATIC CENTER LINK - LTS				1	15	5	c	6	15	1					E
E	LOBBY - POT LTS				1	15	7	a	8	15	1				RM 102 - WALL POT LTS	E
E	BRIDGE - POT LTS				1	15	9	b	10	15	1				RM 201 - POT LTS	E
E	BRIDGE - POT LTS				1	15	11	c	12	15	1				RM 202 - POT LTS	E
E	ELECTRICAL RM - RECEPTS				1	15	13	a	14	15	1				ELECTRICAL RM - BASEBOARD HTR	E
E	TIVOLI LTS PHOTOCELL				1	15	15	b	16	15	1					
E	TIVOLI LTS				1	15	17	c	18	15	1				TIME CLOCK	E
E	EMERGENCY UNIT				1	15	19	a	20	15	1				MH LIGHT - BOTTOM STRS NEAR ELEC. RM	E
E	ESCALATOR LTS & RECEPTS				1	15	21	b	22	15	1				SPARE	E
E	SPARE				1	15	23	c	24							
E	ELEVATOR CONTROLLER				1	15	25	a	26	100	3				100A BREAKER FEED	E
E	SAW				2	30	27	b	28							
							29	c	30							
E	SECURITY'S RM - HEATER				2	20	31	a	32	20	3				LOBBY - UNIT HEATER	E
							33	b	34							
							35	c	36	15	1			120	NEW ELEV. SHAFT - CAB LTS	N
							37	a	38							
N	NEW ELEV. SHAFT - LTS		128		1	15	39	b	40	15	1		120		EF-1 - TOP OF NEW ELEV. SHAFT	N
N	NEW ELEV. SHAFT - RECEPTS			120	1	15	41	c	42							
	PHASE LOADS:		128	120									120	120		
	TOTAL LOAD	488														
	TOTAL PHASE LOADS		248	240												
	+/- 5%	155	171													
	CURRENT (A) @ 208V:	1														

REMARKS:
A - ARC FAULT CIRCUIT INTERRUPTER
E - EXISTING BREAKER
G - GROUND FAULT CIRCUIT INTERRUPTER
L - LOCK-ON DEVICE
N - NEW BREAKER

4 ELECTRICAL PANEL SCHEDULES
E102 SCALE N.T.S.

EQUIPMENT SCHEDULE

EQUIPMENT NO.	LOCATION (RM#)	EQUIPMENT	SUPPLIED UNDER	INSTALLED UNDER	WIRED UNDER	EQUIPMENT RATING kW	HP	V	PH	A	WIRE SIZE (AWG + BOND)	CIRCUIT BREAKER (AMPS/PHASE)	PANEL & CIRCUIT NO.	STARTER SUPPLIED UNDER	STARTER INSTALLED UNDER	STARTER WIRED UNDER	STARTER NOTES (SEE BELOW)	AT MOTOR/EQUIP. SUPPLIED UNDER	AT MOTOR/EQUIP. INSTALLED UNDER	AT MOTOR/EQUIP. WIRED UNDER	AT MOTOR/EQUIP. NOTES (SEE BELOW)	NOTES (SEE BELOW)	NOTES (SEE BELOW)	EQUIPMENT NO.
EF-1	TOP OF NEW ELEVATOR SHAFT	EXHAUST FAN	M	M	E		-	120	1		2#12 + #12B	15/1	A-40	E	E	E	2	E	E	E	1			EF-1
ELEV-2	NEW ELEVATOR SHAFT	ELEVATOR	S	S	S			575	3	23	3#10 + #10B	30/3	PA-8,10,12					S	S	E	1	3		ELEV-2

EQUIPMENT NOTES:
1 HEAVY DUTY DISCONNECT SWITCH
2 MOTOR RATED SWITCH DISCONNECT MEANS C/W LOCKOUT TAB
3 POWER WIRED THROUGH NEW 600-480V TRANSFORMER

LEGEND:
E ELECTRICAL CONTRACTOR
M MECHANICAL CONTRACTOR
S ELEVATOR SUPPLIER

5 EQUIPMENT SCHEDULE
E102 SCALE N.T.S.

NOTES

1. COORDINATE MOUNTING HEIGHT OF ELEVATOR PIT RECEPTACLE WITH ELEVATOR SUPPLIER.
2. COORDINATE MOUNTING HEIGHT OF ELEVATOR RECEPTACLE NEAR TOP OF SHAFT WITH ELEVATOR SUPPLIER.
3. MOUNT 4' (1219mm) ABOVE BOTTOM LANDING NEXT TO THE TOP RUNG OF THE LADDER.
4. EXISTING EQUIPMENT MOUNTED NEAR CEILING TO REMAIN.
5. INSTALL NEW LIGHT FIXTURES IN EXISTING LOCATIONS. CONNECT TO EXISTING CIRCUIT/CONTROL.
6. NEW EMERGENCY LIGHT BATTERY UNIT TO BE MOUNTED TO SIDE OF STAIRS, AND TO BE POWERED BY SAME CIRCUIT AS EXISTING LIGHT FIXTURES ON LEVEL 14.6.
7. NEW JUNCTION BOX(ES) ON CEILING FOR EXTENSION OF EXISTING CIRCUITS.
8. NEW ELEVATOR TRANSFORMER. COORDINATE WITH ELEVATOR SUPPLIER TO VERIFY SIZING REQUIREMENTS PRIOR TO ORDERING.
9. EXISTING TELEPHONE LINE TO HAVE 1-PAIR EXTENDED AS NEEDED, TO SERVICE NEW ELEVATOR EMERGENCY PHONE. COORDINATE WORK WITH TELEPHONE SERVICE PROVIDER.
10. NEW FIRE ALARM ZONE MODULE AT TOP OF SHAFT TO TIE TO NEW SUPERVISED SPRINKLER VALVE AT TOP OF NEW ELEVATOR SHAFT. ZONE MODULE TO WIRE TO NEAREST FIRE ALARM INITIATING CIRCUIT.
11. NEW RECEPTACLE WIRED TO EXISTING RECEPTACLE CIRCUIT.
12. BOX FOR REMOVED DIRECTIONAL WALL LIGHT IN BULKHEAD TO HAVE BLANK COVERPLATE INSTALLED.
13. EXISTING WIRING/CONDUIT TO BE REROUTED/EXTENDED TO MAINTAIN EXISTING CIRCUITS. TRACE CIRCUITS AND COORDINATE WITH OWNER FOR SWITCHOVER.
14. NEW ELEVATOR CONTROLLER WITH INTEGRAL DISCONNECTS, PROVIDE POWER AS REQUIRED. GROUND WIRE TO BE COPPER AND SIZED TO MATCH CONDUCTORS. COORDINATE WITH ELEVATOR SUPPLIER.
15. NEW RECESSED LIGHT FIXTURES TO BE POWERED FROM SAME CIRCUIT AS THE EXISTING POT LIGHTS.
16. EXISTING SPEAKER TO BE REMOVED AND RE-INSTATED IN NEW CEILING.
17. NEW RECEPTACLE TO BE POWERED FROM SAME CIRCUIT AS EXISTING RECEPTACLES IN FILE ROOM.
18. NEW LIGHT FIXTURE TO BE POWERED FROM SAME CIRCUIT AS EXISTING LIGHT FIXTURES IN FILE ROOM.
19. COORDINATE MOUNTING HEIGHT WITH ELEVATOR SUPPLIER.
20. NEW LINEAR LIGHT FIXTURE TO BE INSTALLED ON FACE OF BULKHEAD WITH BOTTOM OF FIXTURE TO BE MADE FLUSH WITH CEILING BELOW. LINEAR FIXTURE TO BE POWERED FROM SAME CIRCUIT AS EXISTING WALL SCONCES IN BULKHEAD.
21. RE-INSTATE EXISTING LIGHTING WHICH IS REMOVED DURING ESCALATOR REMOVAL.
22. TELEPHONE CONNECTION TO BE EXTENDED FROM EXISTING TELEPHONE LINE IN ELEVATOR MACHINE ROOM. COORDINATE WORK WITH TELEPHONE SERVICE PROVIDER.
23. FIRE ALARM RELAY MODULES FOR CONNECTION TO ELEVATOR CONTROLLER.
24. NEW ELEVATOR SHAFT. COORDINATE ALL WORK WITH ELEVATOR SUPPLIER.
25. NEW LIGHT TO REPLACE EXISTING. RE-USE EXISTING WIRING/ CONTROL.

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Revisions / Révisions	No/Nº	Date
IFT SUBMISSION	0	2023.10.05

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Project Title — Titre du projet
ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title — Titre de la feuille
ELECTRICAL NEW LAYOUTS & SCHEDULES

Date: 2023.10.05
Scale: AS NOTED
Drawn by: WKC/TMD
Approved by: JDR/TLM
Consultant reference number: 2223

Stamp — Sceau
REGISTERED PROFESSIONAL ENGINEER
Province of New Brunswick
#M5811
Tracey L.McDade
Signature
2023-10-05
Date
Province du Nouveau-Brunswick
INGÉNIEUR INSCRIT

Project No. / Nº du projet	Sheet No. / Nº de la feuille
20-747	E102

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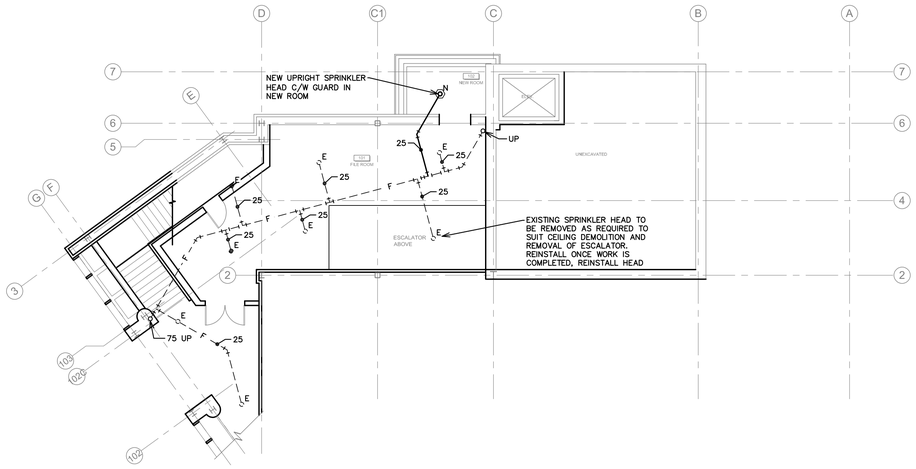
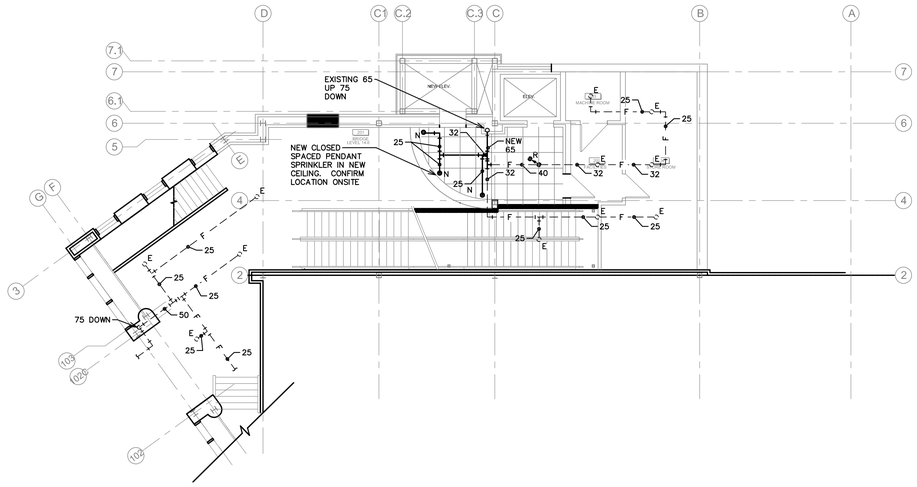


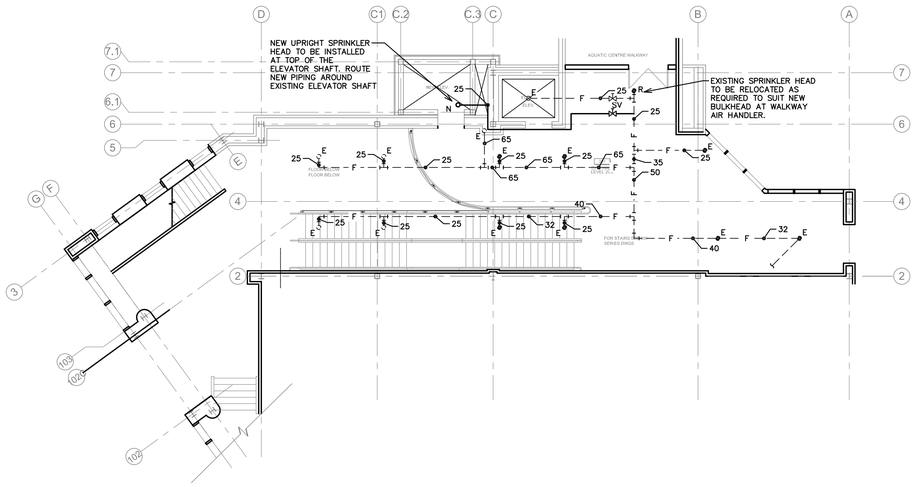
1 M1 LEVEL 9 FLOOR PLAN - FIRE PROTECTION

SCALE: 1:100



2 M1 LEVEL 14 FLOOR PLAN - FIRE PROTECTION

SCALE: 1:100



3 M1 LEVEL 20 FLOOR PLAN - FIRE PROTECTION

SCALE: 1:100

E	EXISTING PENDANT HEAD
E	EXISTING UPRIGHT SPRINKLER HEAD
R	EXISTING HEAD TO BE RELOCATED
N	NEW PENDANT HEAD
N	NEW UPRIGHT SPRINKLER HEAD
F	EXISTING FIRE PROTECTION PIPING
F	EXISTING FIRE PROTECTION PIPING
SV	SUPERVISED VALVE

4 M1 FIRE PROTECTION LEGEND

SCALE: N.T.S.

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ISSUED FOR TENDER	NO.1	10-03-2023

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Project Title / Titre du projet

ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

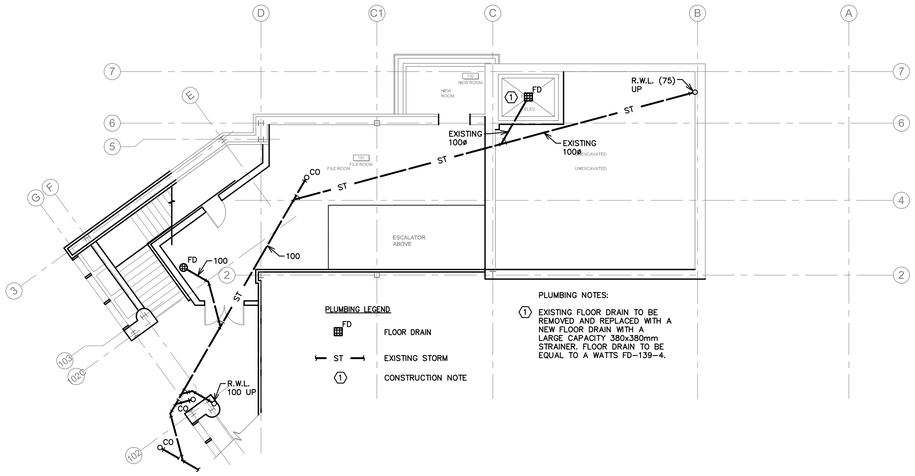
FLOOR PLANS - FIRE PROTECTION

Date / Date	OCT. 2023
Scale / Échelle	AS SHOWN
Drawn by / Dessiné par	JN
Approved by / Approuvé par	SM
Consultant reference number / Numéro de référence de l'expert-conseil	12-22-009

Stamp / Sceau

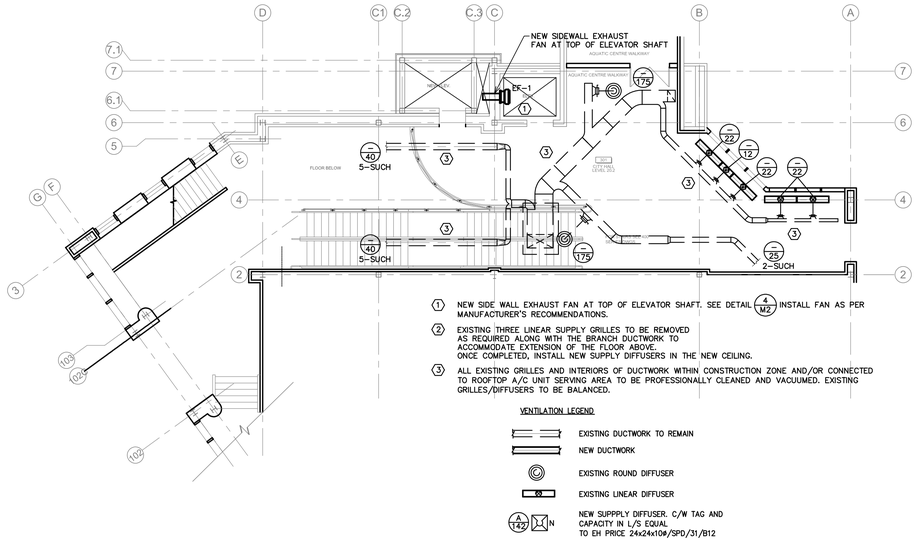
REGISTERED PROFESSIONAL ENGINEER Province of New Brunswick #M4331 Scott H. Mowery Signature Oct. 03, 2023 Date Province du Nouveau-Brunswick INGÉNIEUR IMMATRICULÉ

Project No. / Nº du projet	Sheet No. / Nº de la feuille
20-747	M1



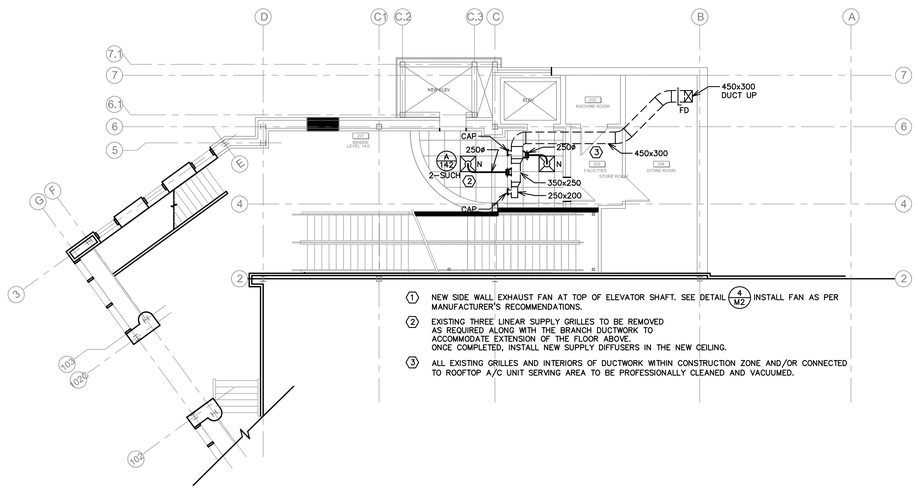
1 M2 LEVEL 9 FLOOR PLAN - PLUMBING

SCALE: 1:100



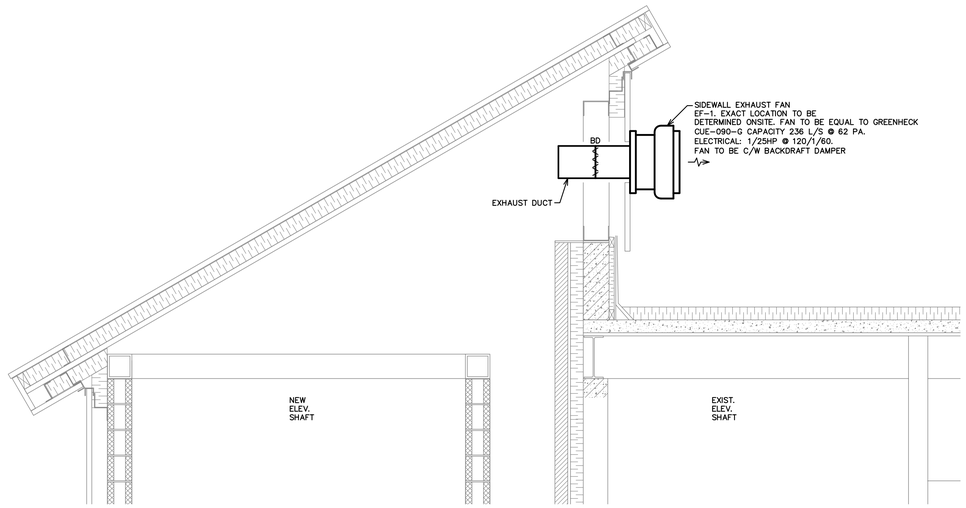
3 M2 LEVEL 20 FLOOR PLAN - VENTILATION

SCALE: 1:100



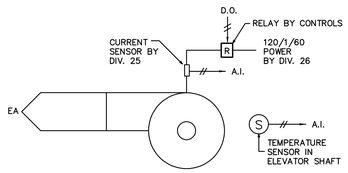
2 M2 LEVEL 14 FLOOR PLAN - VENTILATION

SCALE: 1:100



4 M2 ELEVATOR SHAFT EXHAUST FAN DETAIL

SCALE: 1:100



NOTES:
1. CONNECT NEW EXHAUST FAN INTO EXISTING DELTA BMCS SYSTEM SERVING HVAC EQUIPMENT IN THE PEDWAY.
2. UPDATE FRONT END GRAPHICS TO SHOW NEW WORK
3. EXACT LOCATION FOR TEMPERATURE SENSOR IN ELEVATOR SHAFT TO BE DETERMINED ONSITE.
4. EXHAUST FAN TO OPERATE WHEN TEMPERATURE IN ELEVATOR SHAFT REACHES SETPOINT, INITIALLY SET FOR 28°C (SOFTWARE ADJUSTABLE).

5 M2 EXHAUST FAN CONTROL

SCALE: N.T.S.

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FLOOR PLAN - PLUMBING AND VENTILATION

Date / Date	OCT. 2023
Scale / Échelle	AS SHOWN
Drawn by / Dessiné par	JN
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Consultant reference number / Numéro de référence de l'expert-conseil	12-22-009

Stamp — Sceau

REGISTERED PROFESSIONAL ENGINEER — Province of New Brunswick — #M4331 — Scott H. Mowery — Signature — Oct. 03, 2023 — Date — INGÉNIEUR IMMATRICULÉ

Project No. / Nº du projet	Sheet No. / Nº de la feuille
20-747	M2

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MECHANICAL GENERAL CONDITIONS

.1 GENERAL
THE FOLLOWING GENERAL CONDITIONS SHALL BE READ IN CONJUNCTION WITH THE ENTIRE CONTRACT DOCUMENT.

.2 SCOPE OF WORK
THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND ASSOCIATED SERVICES NECESSARY FOR, AND REQUIRED BY THE INSTALLATION OF COMPLETELY FINISHED, TESTED, BALANCED AND PROPERLY OPERATING MECHANICAL SYSTEMS AS SPECIFIED HEREAFTER AND SHOWN ON THE DRAWINGS. THE INTENTION IS TO PROVIDE FOR FINISHED WORK COMPLETE IN ALL ESSENTIALS AS CALLED FOR BY THE DOCUMENTS AND ACCEPTED GOOD PRACTICE.

THE WORK SHALL INCLUDE THE FOLLOWING:

.1 VENTILATION:
INSTALL NEW EXHAUST FAN, REMOVE AND REINSTALL EXISTING AND OR NEW DIFFUSERS AND DUCTWORK AS INDICATED. PROVIDE BALANCING. HVAC CONTRACTOR TO BE RESPONSIBLE FOR BMCS WORK.

.2 SPRINKLER:
INSTALL NEW SPRINKLER HEADS AS INDICATED.

.3 PLUMBING:
REMOVED EXISTING ELEVATOR FLOOR DRAIN AND INSTALL NEW DRAIN.

.3 PERMITS AND BY-LAWS
THE CONTRACTOR SHALL ABIDE BY ALL CODES AND BY-LAWS RELATING TO THIS INSTALLATION. PROVIDE NECESSARY NOTICES, OBTAIN PERMITS AND PAY ALL FEES, IN ORDER THAT WORK SPECIFIED MAY BE CARRIED OUT. CHANGES AND ALTERATIONS REQUIRED BY AUTHORIZED INSPECTOR OF ANY AUTHORITY HAVING JURISDICTION, TO BE CARRIED OUT WITHOUT CHARGE OR EXPENSE TO OWNER.

.4 SITE VISIT
BEFORE TENDERING THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AT THE SITE WHERE THE WORK HAS TO BE DONE. NO EXTRA WILL BE ALLOWED DUE TO FAILURE TO TAKE SITE CONDITIONS INTO CONSIDERATION.

.5 COORDINATION OF WORK
THIS CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE OWNER AND WITH ALL OTHER SUB-CONTRACTORS. COOPERATE WITH THE OWNER AND OTHER CONTRACTORS. WORK SHALL BE EXECUTED IN A MANNER SO AS TO CAUSE MINIMUM DISRUPTION. ALL SERVICES INTERRUPTIONS SHALL BE SCHEDULED. THIS CONTRACTOR SHALL INCLUDE IN THEIR TENDER, COSTS FOR ALL OVERTIME WORK INVOLVED WITH THE CONSTRUCTION.

.6 GUARANTEE
THE CONTRACTOR SHALL GUARANTEE ALL WORK AND NEW EQUIPMENT INSTALLED UNDER THIS SPECIFICATION AGAINST ANY DEFECTS OF WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF SAME BY OWNER. REPAIR AND MAKE GOOD ALL DAMAGE TO BUILDING INCURRED AS A RESULT OF FAILUR OF MECHANICAL WORK. PROVIDE FREE SERVICE AND MAINTENANCE OF ALL EQUIPMENT INCLUDING REPLACEMENT OF DISPOSABLE FILTERS FOR ONE FULL YEAR AFTER ACCEPTANCE OF THE SYSTEM.

.7 DRAWINGS
THE DRAWINGS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIM FOR EXTRA PAYMENT ON ACCOUNT OF DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS SHALL BE ALLOWED. IN THE CASE OF DISCREPANCY OF FIGURE DIMENSIONS ON THE DRAWINGS, THE MATTER SHALL BE IMMEDIATELY SUBMITTED TO THE OWNER FOR THEIR DECISION. WITHOUT THE DECISION, THE DISCREPANCY SHALL NOT BE ADJUSTED BY THE CONTRACTOR SAVE AT THEIR OWN RISK, AND IN THE SETTLEMENT OF ANY COMPLICATIONS ARISING FROM SUCH ADJUSTING, THE CONTRACTOR SHALL BEAR ALL EXTRA EXPENSE INVOLVED. INTERPRETATION OF ALL DOCUMENTS SHALL BE BY THE ENGINEER.

.8 EXTRA WORK
NO ADDITIONAL MONEY OVER CONTRACT PRICE SHALL BE PAID UNLESS CONTRACTOR RECEIVES A SIGNED APPROVAL IN ACCORDANCE WITH THE GENERAL CONDITIONS. NO ADDITIONAL MONEY SHALL BE PAID FOR USE OF EQUAL PRODUCTS.

.9 CUTTING AND PATCHING
THE CONTRACTOR IS TO LOCATE THE EXACT DIMENSIONS AND POSITIONS OF OPENINGS AND HOLES WHERE CUTTING MAY BE REQUIRED IN FLOORS, ROOFS, CEILINGS AND/OR WALLS FOR THE PASSAGE OF PIPES, DUCTS, ETC. WHERE CUTTING, PATCHING, EXCAVATION AND BACKFILLING IS NECESSARY, IT SHALL BE DONE BY THIS CONTRACTOR.

.10 SLEEVES
THE CONTRACTOR IS TO SUPPLY AND SET IN PLACE PIPE AND/OR DUCT SLEEVES IN FLOOR, ROOF, OR FIRE WALLS BEFORE CONCRETE IS POURED.

.11 SHOP DRAWINGS
CONTRACTOR SHALL SUBMIT, WITHIN TWO WEEKS AFTER BEING AWARDED THE CONTRACT, A MINIMUM OF 6 COPIES OF CERTIFIED SHOP DRAWINGS FOR REVIEW BY THE OWNER OF ALL EQUIPMENT AND MATERIAL SPECIFIED AND SHALL NOT PROCEED WITH ANY OF THIS WORK UNTIL THE DRAWINGS HAVE BEEN RETURNED STAMPED AND SIGNED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION OF CHECKING THE DRAWINGS OR FURNISHING THE MATERIALS SPECIFIED.

.12 CLEANING UP
THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE NEAT, CLEAN AND FREE FROM ACCUMULATION OF WASTE, MATERIALS AND RUBBISH WHICH ARISE OUT OF THEIR WORK.

.13 EQUIVALENT
EQUIPMENT OF THE FOLLOWING MANUFACTURERS, PROVIDING THE EQUIPMENT HAS EQUAL CHARACTERISTICS TO THAT SPECIFICALLY MENTIONED IN THIS SPECIFICATION, IS CONSIDERED AS EQUAL AND WILL BE ACCEPTED. THE OWNER HAS THE SOLE RIGHT TO DETERMINE AND INTERPRET THE 'EQUAL' QUALITIES. ANY MODIFICATIONS REQUIRED FOR INSTALLATION OF EQUAL PRODUCTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. EQUIPMENT OF MANUFACTURERS NOT MENTIONED IN THE 'REVIEWED EQUALS LIST', WHO WISH TO HAVE THEIR EQUIPMENT LISTED AS EQUAL, MAY QUALIFY FOR THE 'REVIEWED EQUALS LIST'. SUBMIT ALL REQUIRED TECHNICAL DATA THROUGH THE OFFICE OF THE GENERAL CONTRACTOR A MINIMUM OF TWO (2) DAYS PRIOR TO TENDER CLOSING.

.14 OPERATING AND MAINTENANCE INSTRUCTIONS
THE CONTRACTOR SHALL PROVIDE A MINIMUM 3 HOURS TO INSTRUCT THE OWNER IN OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS INSTALLED. ALL SAFETY AND CONTROL FEATURES SHALL BE THOROUGHLY EXPLAINED. THREE COPIES OF OPERATING AND MAINTENANCE INSTRUCTIONS, TOGETHER WITH ALL APPROVED SHOP DRAWINGS AND SPARE PARTS LIST FASTENED IN A BINDER, SHALL BE SUBMITTED TO THE OWNER.

.15 AS BUILT DRAWINGS
CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, ONE SET OF PLANS ON WHICH HE SHALL CLEARLY NOTE ALL CHANGES OR DEVIATIONS FROM THE CONTRACT DOCUMENTS, AS THE JOB PROGRESSES. CONTRACTOR SHALL AT THE TIME OF FINAL INSPECTION SUBMIT TO THE OWNER, ONE SET OF FINAL 'AS-BUILT' WHITE PRINT DRAWINGS.

.16 FIRE STOPPING
MECHANICAL CONTRACTORS SHALL PROVIDE AND INSTALL A ULC LISTED FIRE STOPPING DEVISE AT FIRE SEPARATION FOR MECHANICAL SYSTEMS WHERE SUCH SYSTEMS PENETRATE FIRE AND SMOKE SEPARATIONS AND RATED ASSEMBLIES IN THE STRUCTURE AS INDICATED ON ARCHITECTURAL DRAWINGS OR REQUIRED BY AUTHORITIES HAVING JURISDICTION. ACCEPTABLE FIRE STOP SYSTEM SHALL BE BY HILTI OR APPROVED EQUAL. INSTALLATION OF FIRE STOPPING SYSTEM SHALL BE IN ACCORDANCE WITH MANUFACTURERS LISTED TEST PROCEDURE. INSTALLER SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER. FIRE STOPPING SHALL BE INSTALLED AS PER MANUFACTURERS APPROVED INSTALLATION REQUIREMENTS AND SHALL BE INSPECTED PRIOR TO ENCLOSING WALLS OR CEILINGS WHERE FIRE STOPPING HAS BEEN INSTALLED.

VENTILATION SYSTEMS

.1 DUCTWORK
ALL DUCTWORK SHALL BE CONSTRUCTED FROM LOCK FORMING QUALITY STEEL WITH G90 DESIGNATION ZINC COATING TO ASTM A-525M-80 IN ACCORDANCE WITH THE LATEST EDITION OF ASHRAE GUIDE AND SMACNA STANDARDS. DUCT LEAKAGE SHALL NOT EXCEED 3% MAXIMUM. SEAL ALL DUCTS WITH APPROVED SEALANT.

.2 HANGERS
HANGER SPACING SHALL BE AS PER THE FOLLOWING SCHEDULE:

LONGEST SIDE	GAUGE (US)	TYPE OF JOINTS				
		HEIGHT	SLIP	BAR SLIP	LOCK	'T'
UP TO 11" (275mm)	26	25	24	–	24	–
12" (300mm) TO 24" (600mm)	24	25	22	–	22	–
25" (625mm) TO 60" (1500mm)	22	25	–	22	22	22
61" (625mm) TO 108" (2700mm)	20	37	–	22	22	22

.3 FLEXIBLE CONNECTIONS
PROVIDE, WHERE SHOWN AND AT ALL DUCT CONNECTIONS TO EQUIPMENT, NEOPRENE COATED GLASS FABRIC, DURO-DYNE OR EQUAL, NOT MORE THAN 4" (100 MM) LONG BETWEEN METAL PARTS AND INSTALLED WITH SUFFICIENT SLACK TO PREVENT VIBRATION TRANSMISSION.

.4 DUCT SEALING
ALL NEW SHEET METAL DUCTWORK SHALL BE DUCT SEALED WITH DUCT SEALANT AND FIBERGLASS MESH TAPE INCLUDING CONNECTIONS TO EXISTING DUCTWORK. ALL EXISTING SUPPLY AND EXHAUST DUCTWORK WITHIN THE SCOPE OF WORK AREA TO HAVE JOINTS AND LONGITUDINAL SEAMS SEALED. DUCT SEALANT: DURODYNE WB-S2.

.5 FIRE DAMPERS:
PROVIDE FIRE DAMPERS WERE SHOWN AND WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION TO MAINTAIN FIRE WALL OR CEILING INTEGRITY, THEY SHALL BE CONTROLLED AIR MFG LTD MODEL 'B', OR EQUAL. FIRE DAMPERS TO BE "DYNAMIC" FIRE DAMPERS SHALL BE LISTED AND BEAR THE LABEL OF ULC AND SHALL MEET REQUIREMENTS AND BE INSTALLED TO NFPA 90A-1978 AND SMACNA STANDARD 'FIRE DAMPER GUIDE FOR AIR HANDLING SYSTEMS'. SEAL WALL OPENINGS ALL AROUND THE DUCTS PASSING THROUGH THE FIRE WALLS AS RECOMMENDED BY THE NFPA-13. PROVIDE ACCESS DOORS AT EACH FIRE DAMPER TO ALLOW FOR SERVICE. TEST OPERATION OF EACH DAMPER ONCE INSTALLED TO VERIFY PROPER FUNCTION.

AUTOMATIC SPRINKLER SYSTEM

.1 REFERENCES
SPRINKLER SYSTEM TO BE INSTALLED AS PER ANSI/NFPA 13 – LATEST ACCEPTED EDITION, NATIONAL BUILDING CODE OF CANADA – LATEST EDITION. NATIONAL FIRE CODE OF CANADA LATEST EDITION. THE NATIONAL PLUMBING CODE – LATEST EDITION, AND THE PROVINCE OF NEW BRUNSWICK OFFICE OF THE FIRE MARSHALL.

.2 SHOP DRAWINGS AND PRODUCT DATA
SUBMIT SHOP DRAWINGS AND PRODUCT DATA IN ACCORDANCE WITH THE NFPA 13, WORKING PLANS AND DESIGN REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE OWNER FOR REVIEW.

.3 ENGINEERING DESIGN CRITERIA
DESIGN SYSTEM TO ACCORDANCE WITH NFPA-13, USING FOLLOWING PARAMETERS
.1 HAZARD:
 .1 ALL AREAS – LIGHT HAZARD
 .2 IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION
.2 PIPE SIZE AND LAYOUT:
 .1 SCHEDULE DESIGN SIZED TO LIGHT HAZARD,
 .2 SPRINKLER HEAD LAYOUT: TO NFPA-13 OR AS DIRECTED BY AUTHORITIES HAVING JURISDICTION.

.4 CONTRACTORS QUALIFICATIONS
ALL WORK RELATED TO THE AUTOMATIC SPRINKLER SYSTEM SHALL BE PERFORMED BY A COMPETENT CONTRACTOR WHO IS EXPERIENCE IN THE SPRINKLER TRADE. SAID CONTRACTOR SHALL HAVE A FOREMAN ON SITE WHO HOLDS A VALID CERTIFICATE OF QUALIFICATION FOR SPRINKLER SYSTEMS INSTALLATION AS ISSUED BY THE DEPARTMENT OF LABOR, PROVINCE OF NEW BRUNSWICK. IN ADDITION, ALL SPRINKLER TRADESMEN WORKING ON THE SITE SHALL HOLD A VALID CERTIFICATE OF QUALIFICATIONS FOR SPRINKLER INSTALLATION AS ISSUED BY NEW BRUNSWICK DEPARTMENT OF LABOR, OR BE REGISTERED WITH THE DEPARTMENT OF LABOR AS IN TRAINING FOR A CERTIFICATE OF QUALIFICATION FOR SPRINKLER INSTALLATION.

.5 PIPE & FITTINGS
.1 PIPE & FITTINGS:
 .1 STEEL PIPE: SCHEDULE 40 FOR SIZES UNDER NPS 8, BLACK OR GALVANIZED, TO ASTM A53 LATEST EDITION. THREADED JOINTS SHALL BE ON SCHEDULE 40 ONLY.
 .2 STEEL PIPE: WELDED OR SEAMLESS STEEL PIPE – SCHEDULE 10 FOR SIZES UP TO NPS 5.
.2 FITTINGS: 175PSI WORKING PRESSURE.
 .1 CAST IRON SCREWED TO ANSI B16.4-LATEST EDITION, 125PSI.
 .2 MALLEABLE IRON, SCREWED TO ANSI B16.3 – LATEST EDITION, 125PSI.
 .3 CAST IRON FLANGED TO ANSI B16.1 – LATEST EDITION, 145PSI
 .4 MECHANICAL GROOVE COUPLING TO ANSI B31.3 – LATEST EDITION, 175PSI.
 .5 MITRED FITTINGS ARE UNACCEPTABLE.
.3 ALL ROLL GROOVED FITTINGS TO BE ULC LISTED FOR FIRE PROTECTION SERVICES AND BE OF ONE MANUFACTURER. ALL COUPLINGS TO BE DESIGNED WITH AN ANGLE BOLT PAD TO PROVIDE A RIGID JOINT. ACCEPTABLE MATERIAL: VICTAULIC FIRE LOCK 005

.6 PIPE HANGERS
TO CONFORM TO NFPA 13-LATEST EDITION FOR INSTALLATION OF SPRINKLER SYSTEMS

.7 SPRINKLER HEADS
PENDENT / UPRIGHT TYPE TO SUIT INSTALLATION. RATINGS TO NFPA 13.

.8 INSTALLATION
INSTALL, INSPECT, AND TEST SYSTEM TO ACCEPTANCE IN ACCORDANCE WITH NFPA – 13. NOTE THAT BUILDING SPRINKLER SYSTEM TO BE LEFT IN OPERATION AT END OF EACH WORK DAY. SHUT DOWN TO BE SCHEDULED WITH BUILDING OPERATIONS MANAGER AND SHALL BE APPROVED PRIOR TO ANY WORK COMMENCING.

.9 COORDINATION
DRAWINGS INDICATE NEW SPRINKLER HEAD LOCATIONS ONLY. CONTRACTOR TO PROVIDE A DESIGNED PIPING LAYOUT TO SUIT NEW SPRINKLER HEAD LOCATIONS. THE PIPING LAYOUT SHALL BE COORDINATED WITH EXISTING AND NEW SERVICES LOCATED ABOVE THE CEILING. MODIFY / ADD PIPING AS REQUIRED.

.10 TESTING
SPRINKLER CONTRACTOR SHALL PERFORM A PRESSURE TEST ON ALL NEW SPRINKLER PIPING INSTALLED. TEST PRESSURE SHALL BE TO 200 PSI FOR 2 HOURS WITH NO DROP IN PRESSURE IN ACCORDANCE WITH NFPA. TEST TO BE WITNESSED BY OWNER AND A TEST REPORT SUBMITTED BY CONTRACTOR DATED AND SIGNED TO OWNER. PROVIDE LETTER AT COMPLETION OF JOB STATING THAT SPRINKLER SYSTEM HAS BEEN LEFT IN OPERATION.

PLUMBING SYSTEMS

.1 GENERAL
ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF CANADA, LATEST EDITION. CONTRACTOR SHALL CONDUCT AND PAY FOR ALL PERMITS AND TESTS. ALL TESTS SHALL BE CARRIED OUT IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE AND/OR AUTHORITY HAVING JURISDICTION.

.2 PIPE MATERIAL
PIPE MATERIALS SHALL BE AS SPECIFIED BELOW:

SANITARY/STORM DRAINAGE BELOW GROUND	M.W. CAST IRON CLASS 4000 TO CSA-B70. ABS-DWV,PVC-DWV TO CSA-B181.1, B181.2, AND B182.1
SANITARY/STORM DRAINAGE ABOVE GROUND 3" (75mm) & LARGER	M.W. CAST IRON CLASS 4000 TO CSA-B70. PVC-DWV*,XFR TO CSA-B181.2
SANITARY/STORM DRAINAGE ABOVE GROUND 2" (50mm) & SMALLER	COPPER-DWV TO CSA-B125. PVC-DWV*,XFR TO CSA B-181.2
SANITARY VENT	COPPER-DWV TO CSA-B125. PVC-DWV*,XFR TO CSA B-181.2
DOMESTIC HOT & COLD WATER (INSIDE BUILDING)	COPPER TYPE 'L' HARD TO ASTM B88M. PEX-A* TO CSA-B137.5/B137.6. CPVC TO CSA-B137.6

* PVC OR OTHER COMBUSTIBLE PIPING WITH A SMOKE-DEVELOPMENT RATING GREATER THAN 50 SHALL NOT BE USED WHERE CEILINGS ARE USED AS AIR PLENUMS. IPEX XFR SYSTEM IS RATED FOR PLENUM INSTALLATION.

COMBUSTIBLE PIPING IS PERMITTED FOR USE IN NON-COMBUSTIBLE CONSTRUCTION ONLY WHERE CONCEALED IN A WALL OR CONCRETE FLOOR SLAB, OR HAVING A FLAME-SPREAD RATING NOT GREATER THAN 25. FOR 'HIGH BUILDINGS' AS DEFINED PER NBC, THE SMOKE-DEVELOPMENT RATING SHALL ALSO NOT BE GREATER THAN 50.

FLAME-SPREAD AND SMOKE DEVELOPMENT CAN/ULC-S102.2 TESTING STANDARD.

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ISSUED FOR TENDER	NO.1	10-03-2023
Revisions / Révisions	No/Nº	Date

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Project Title / Titre du projet

ST. PATRICK STREET PEDWAY RENOVATION AND ELEVATOR ADDITION

ST. PATRICK STREET
SAINT JOHN, NEW BRUNSWICK

Sheet title / Titre de la feuille

MECHANICAL SPECIFICATIONS

Date / Date: OCT. 2023
Scale / Échelle: AS SHOWN
Drawn by / Dessiné par: JN
Approved by / Approuvé par: SM
Consultant reference number / Numéro de référence de l'expert-conseil: 12-22-009
Stamp / Sceau: REGISTERED PROFESSIONAL ENGINEER Province of New Brunswick #M4331 Scott H. Mowery Signature Oct. 03, 2023 Date Ordre des Ingénieurs du Nouveau-Brunswick INGÉNIEUR / IMMATRICULÉ

Project No. / Nº du projet: 20-747
Sheet No. / Nº de la feuille: M3

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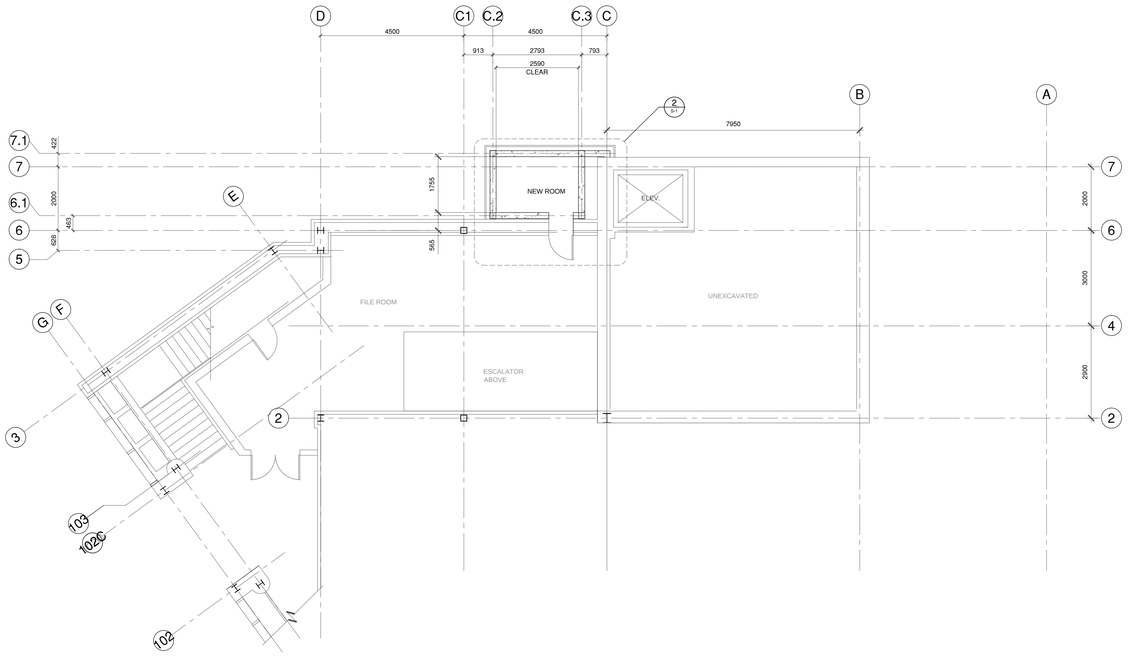

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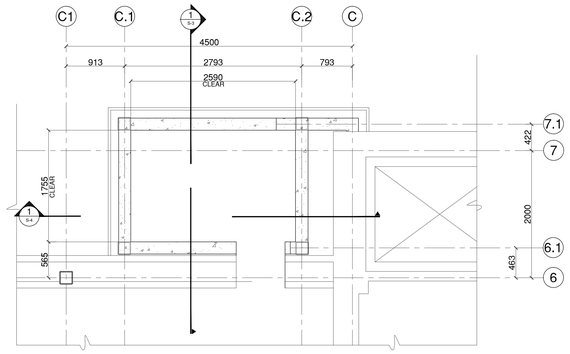

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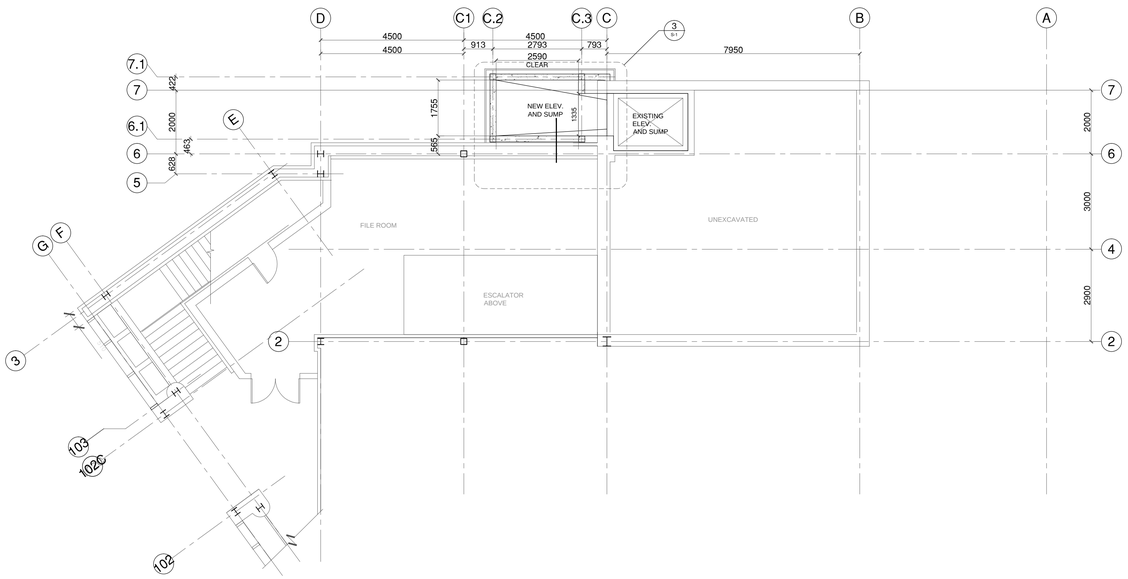

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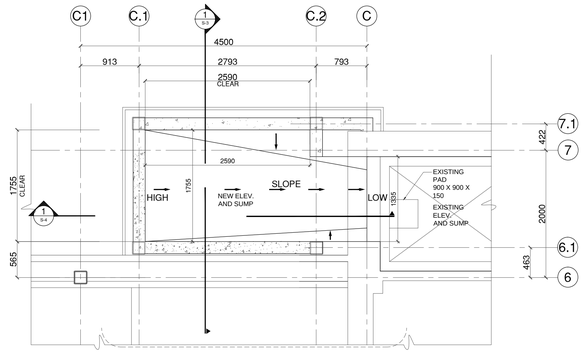

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ISSUED FOR TENDER	1	OCT 2/2023
Revisions / Revisions	**No/№**	**Date**

Consultant / **Expert-conseil**

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Project Title / **Titre du projet**

ST.PATRICK PEDWAY
ELEVATING DEVICES
UPGRADE

Sheet title / **Titre de la feuille**

STRUCTURAL
PLANS

Date / **Date**: FEB 1/2023

Stamp / **Sceau**: REGISTERED PROFESSIONAL ENGINEER # 4389 J. B. Holder October 2, 2023 NEW BRUNSWICK STRUCTURAL

Scale / **Échelle**: N.T.S.

Drawn by / **Dessiné par**: M C H

Approved by / **Approuvé par**: J B H

Consultant reference number / **Numéro de reférence de l'expert-conseil**

Project No. / **№ du projet**: 19-719

Sheet No. / **№ de la feuille**: S-1

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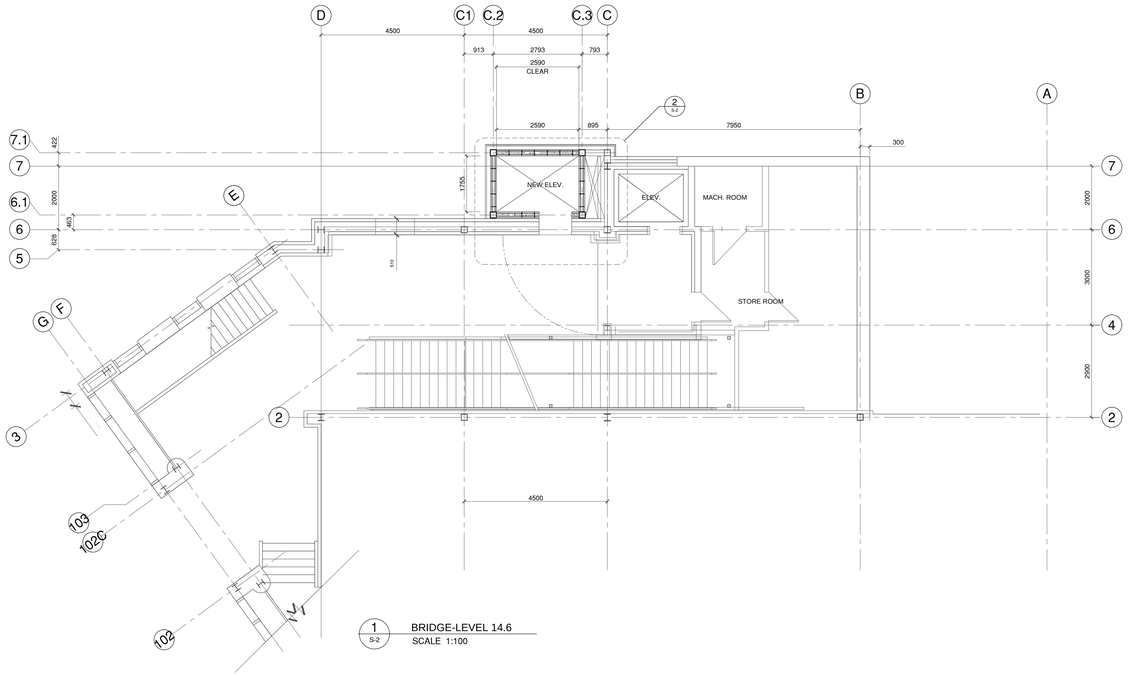

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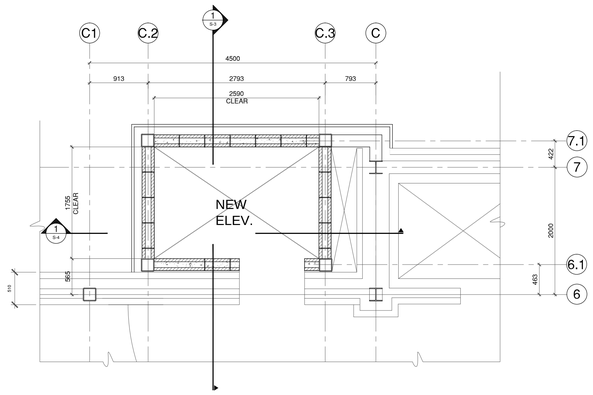

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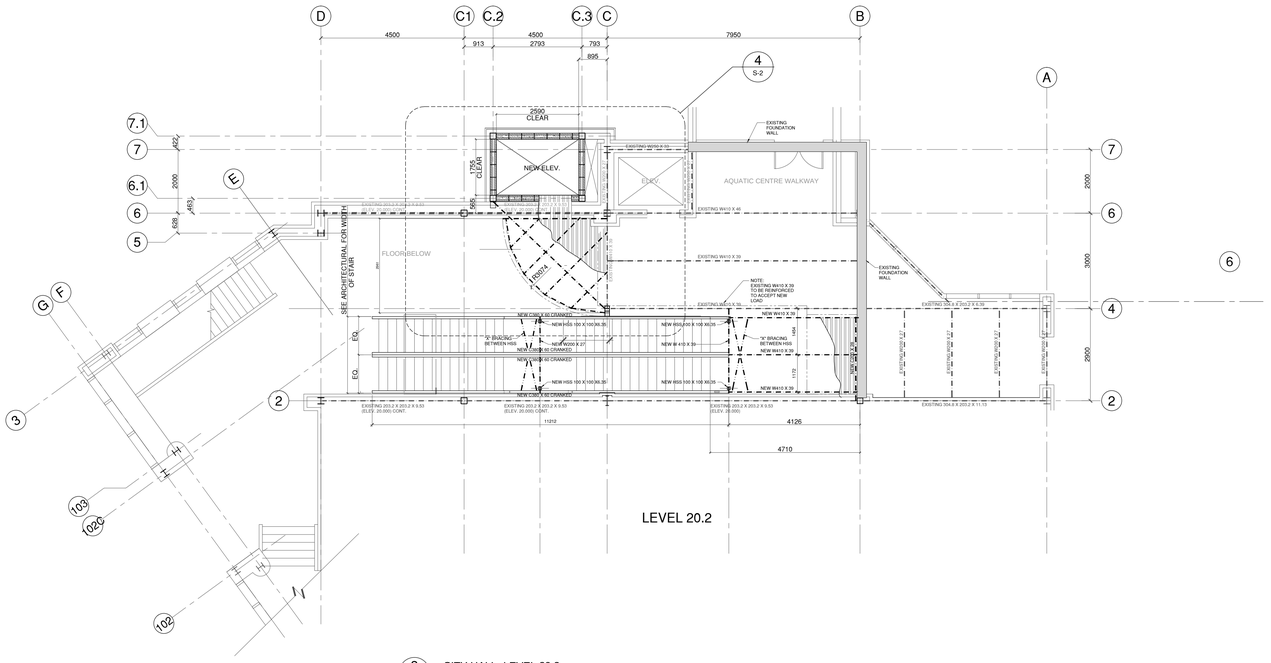

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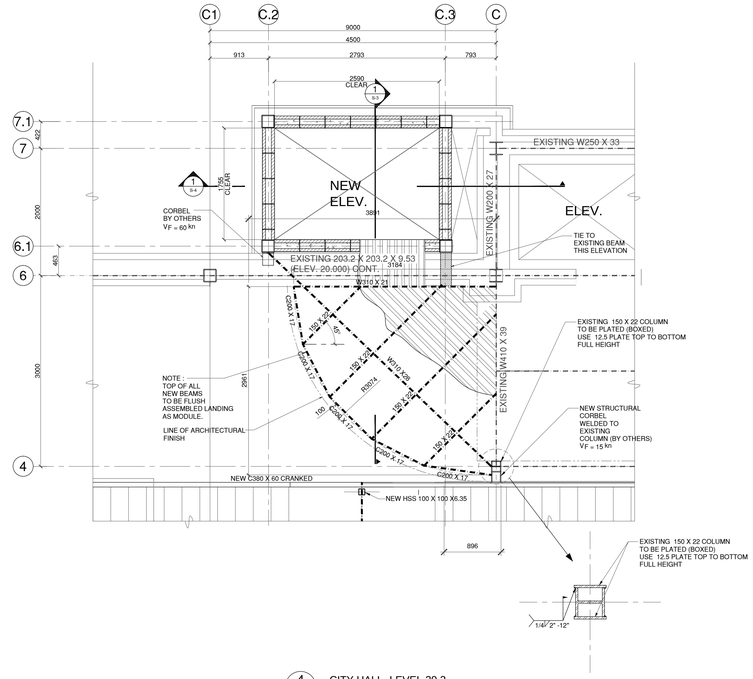

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SCALE N.T.S.

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Consultant / Expert-conseil

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Project Title / Titre du projet
ST.PATRICK PEDWAY ELEVATING DEVICES UPGRADE

Sheet title / Titre de la feuille
STRUCTURAL PLANS

Date / Date: FEB 1/2023
Scale / Échelle: AS NOTED
Drawn by / Dessiné par: M C H
Approved by / Approuvé par: J B H
Consultant reference number / Numéro de référence de l'expert-conseil:
Stamp / Sceau: REGISTERED PROFESSIONAL ENGINEER, Province of New Brunswick, # 4389, J. B. Holder, October 2, 2023, Professional Engineer to Association of Professional Engineers of New Brunswick

Project No. / Nº du projet: 19-719
Sheet No. / Nº de la feuille: S-2

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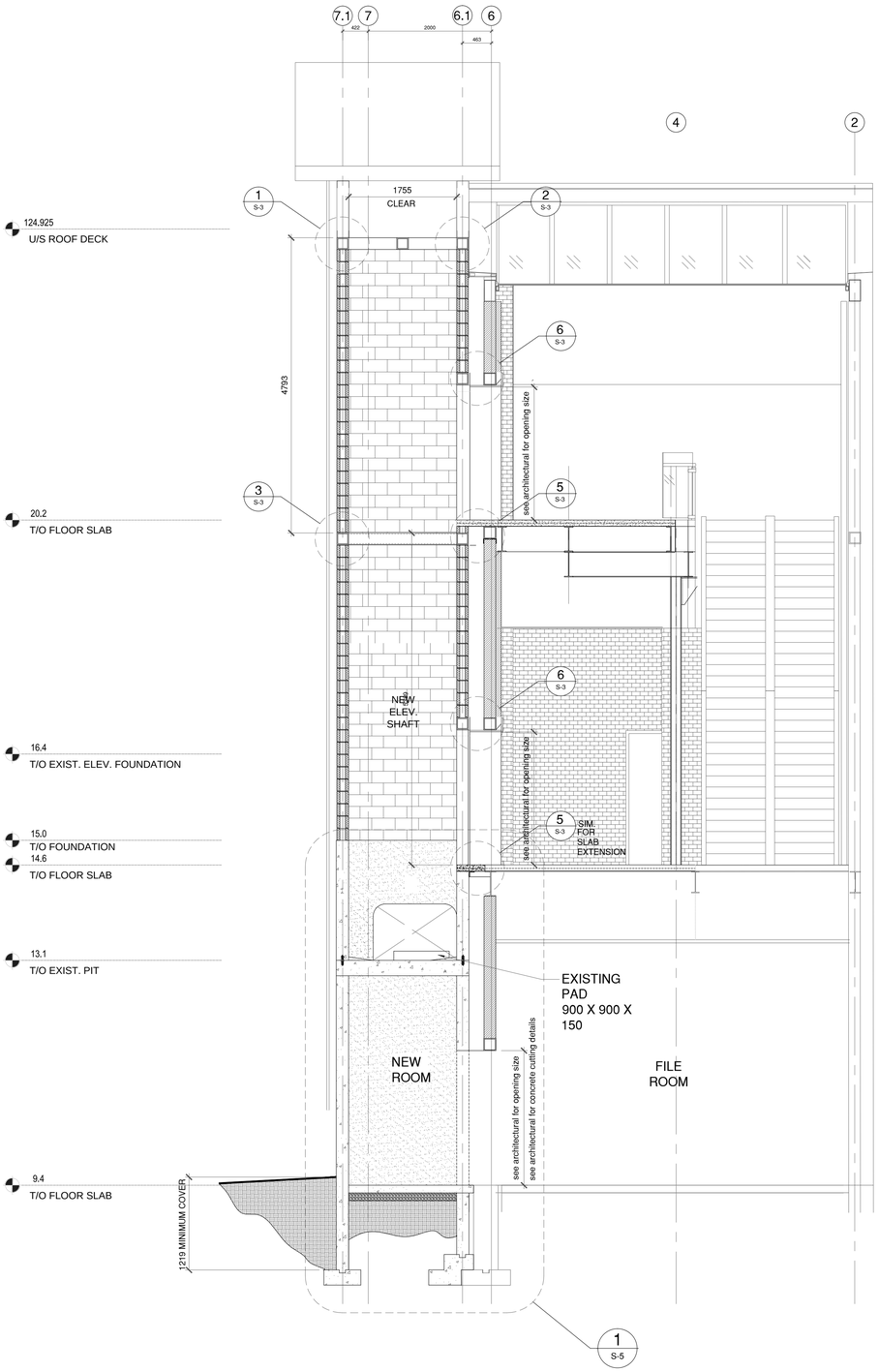

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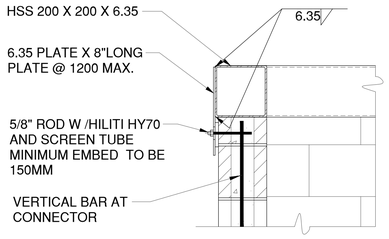

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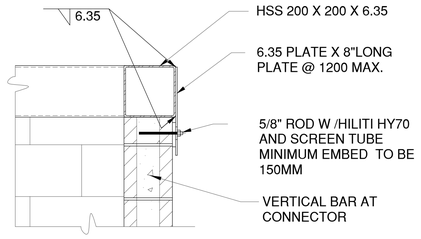

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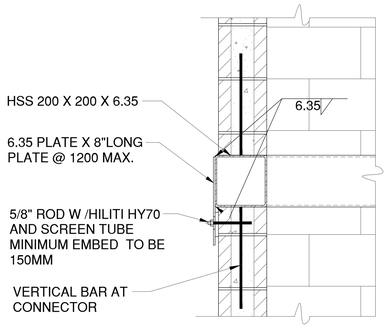

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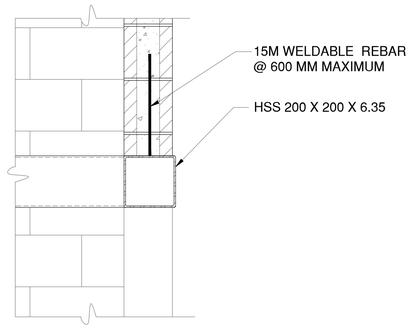

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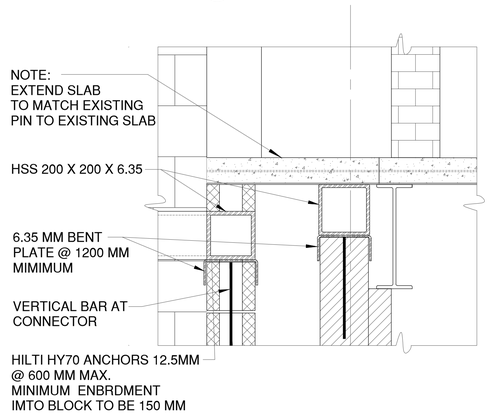

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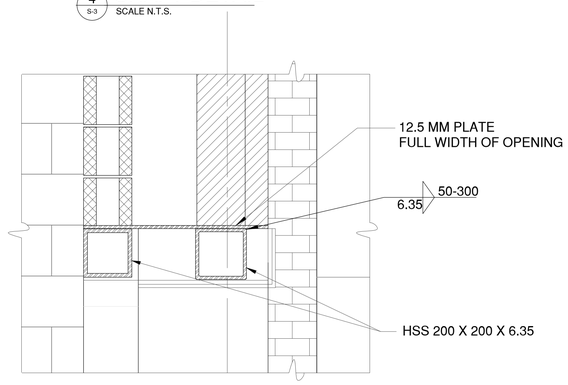

6 S-3 SHAFT DETAIL
SCALE N.T.S.

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Revisions / Revisions	**No/№**	**Date**

Consultant / Expert-conseil

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Project Title / Titre du projet

ST.PATRICK PEDWAY
ELEVATING DEVICES
UPGRADE

Sheet title / Titre de la feuille

NEW ELEVATOR
SECTION AND DETAILS

Date / Date: FEB 1/2023
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Approved by / Approuvé par: J B H
Consultant reference number / Numéro de référence de l'expert-conseil:
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Project No. / №du projet: 19-719
Sheet No. / №de la feuille: S-3

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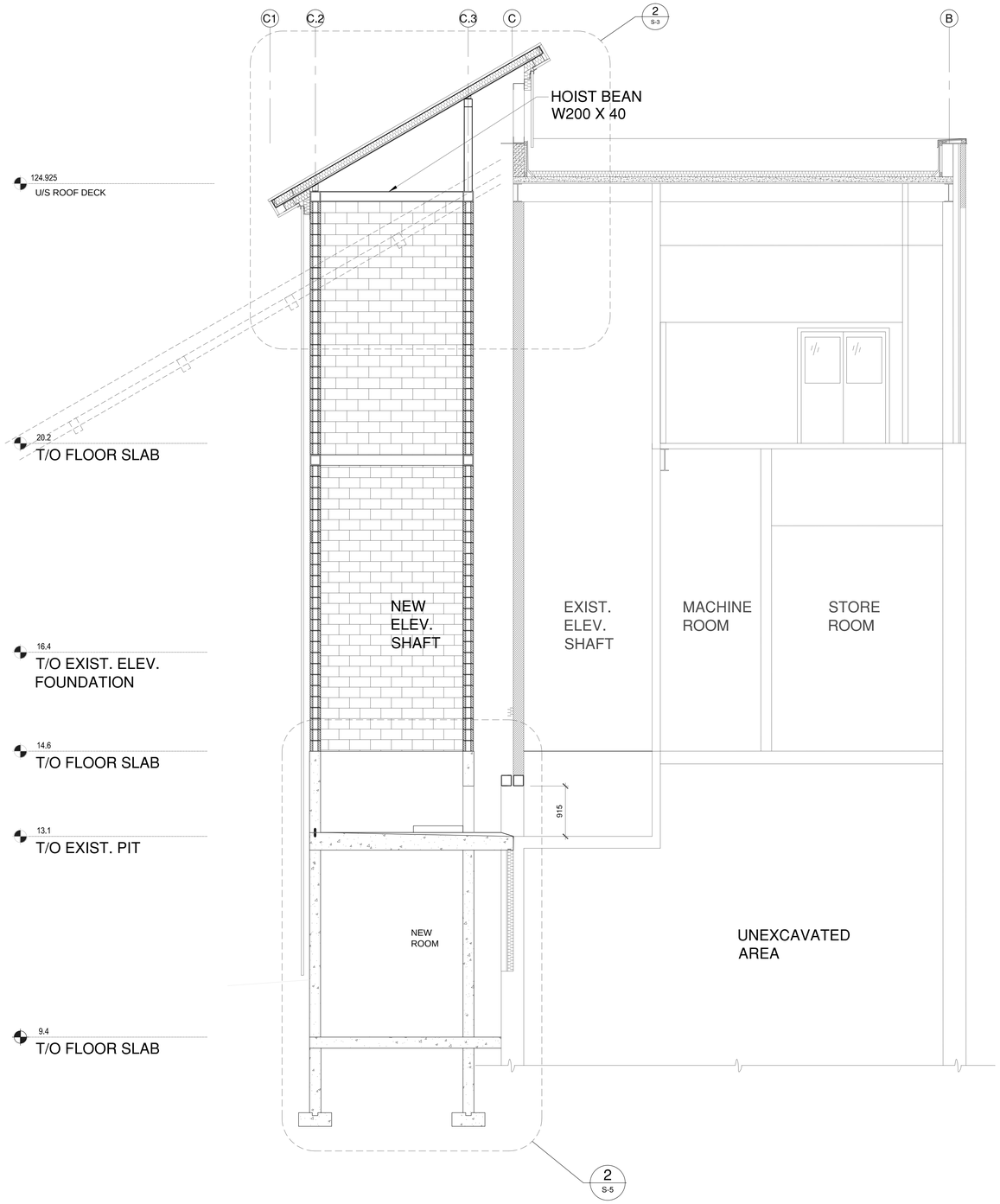
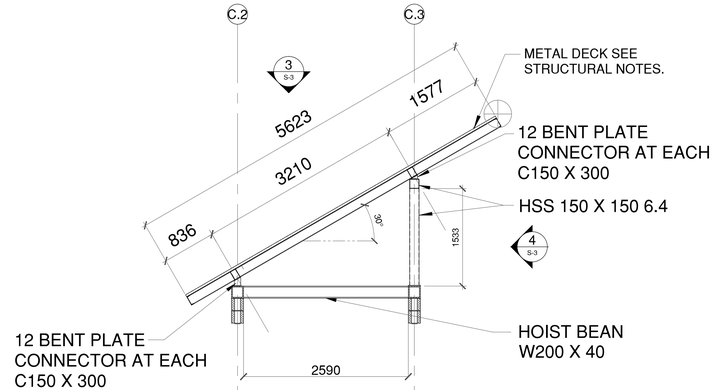


1 S-4 ELEVATOR SHAFT SECTION
SCALE 1:50

CONTRACTOR TO
SITE VERIFY ALL
DIMENSION BEFORE
FABRICATION OF ANY
COMPONENT OF PROJECT



2 S-4 ELEVATOR SHAFT ROOF FRAMING SECTION
SCALE N.T.S.

CONTRACTOR TO
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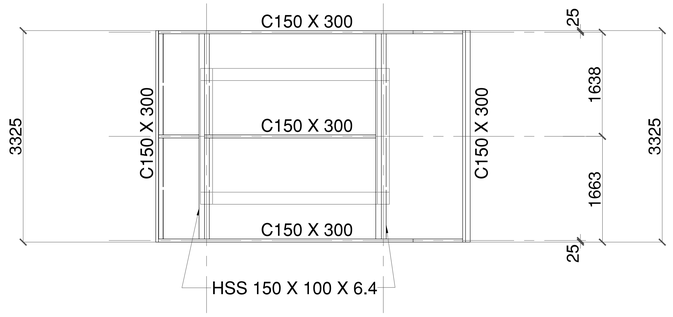
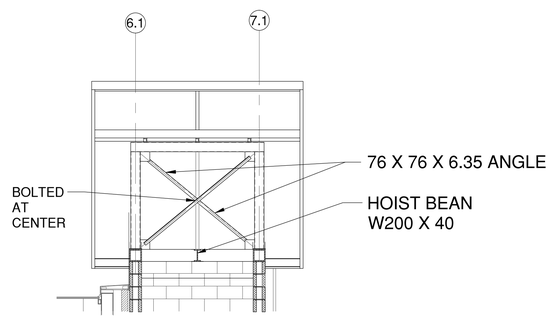


3 S-4 ELEVATOR SHAFT ROOF FRAMING PLAN
SCALE N.T.S.

CONTRACTOR TO
SITE VERIFY ALL
DIMENSION BEFORE
FABRICATION OF ANY
COMPONENT OF PROJECT



4 S-4 ELEVATOR SHAFT ROOF "X" BRACING ELEVATION
SCALE N.T.S.

SAINT JOHN

Murdock ◦ Boyd
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Revisions / Revisions	No/Nº	Date
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Project Title / Titre du projet
ST.PATRICK PEDWAY
ELEVATING DEVICES
UPGRADE

Sheet title / Titre de la feuille
NEW ELEVATOR
SECTION AND DETAILS

Date / Date: FEB 1/2023
Scale / Echelle: AS NOTED
Drawn by / Dessiné par: M C H
Approved by / Approuvé par: J B H
Consultant reference number / Numéro de référence de l'expert-conseil:
Stamp / Sceau: REGISTERED PROFESSIONAL ENGINEER Province of New Brunswick # 4389 J. B. Holder October 2, 2023 Date
Structural Engineering
STRUCTURAL INTEGRITY

Project No. / Nº du projet: 19-719
Sheet No. / Nº de la feuille: S-4

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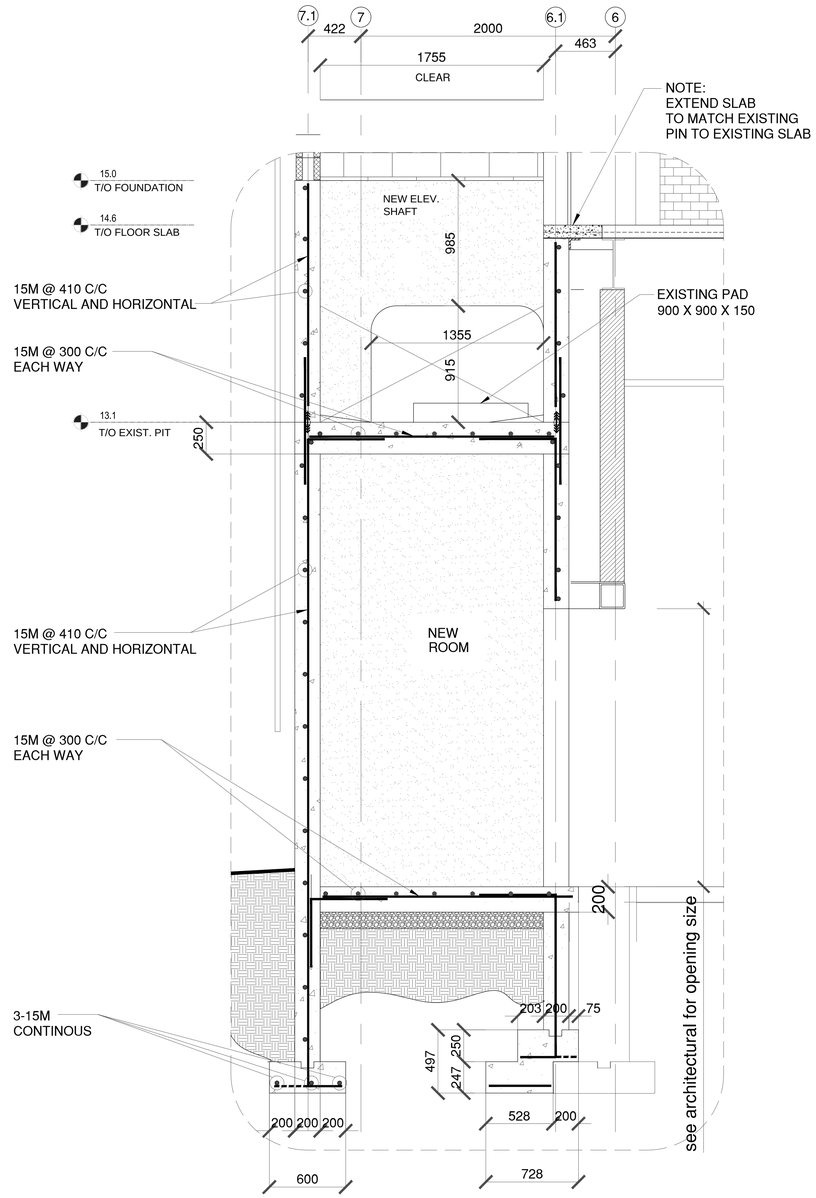
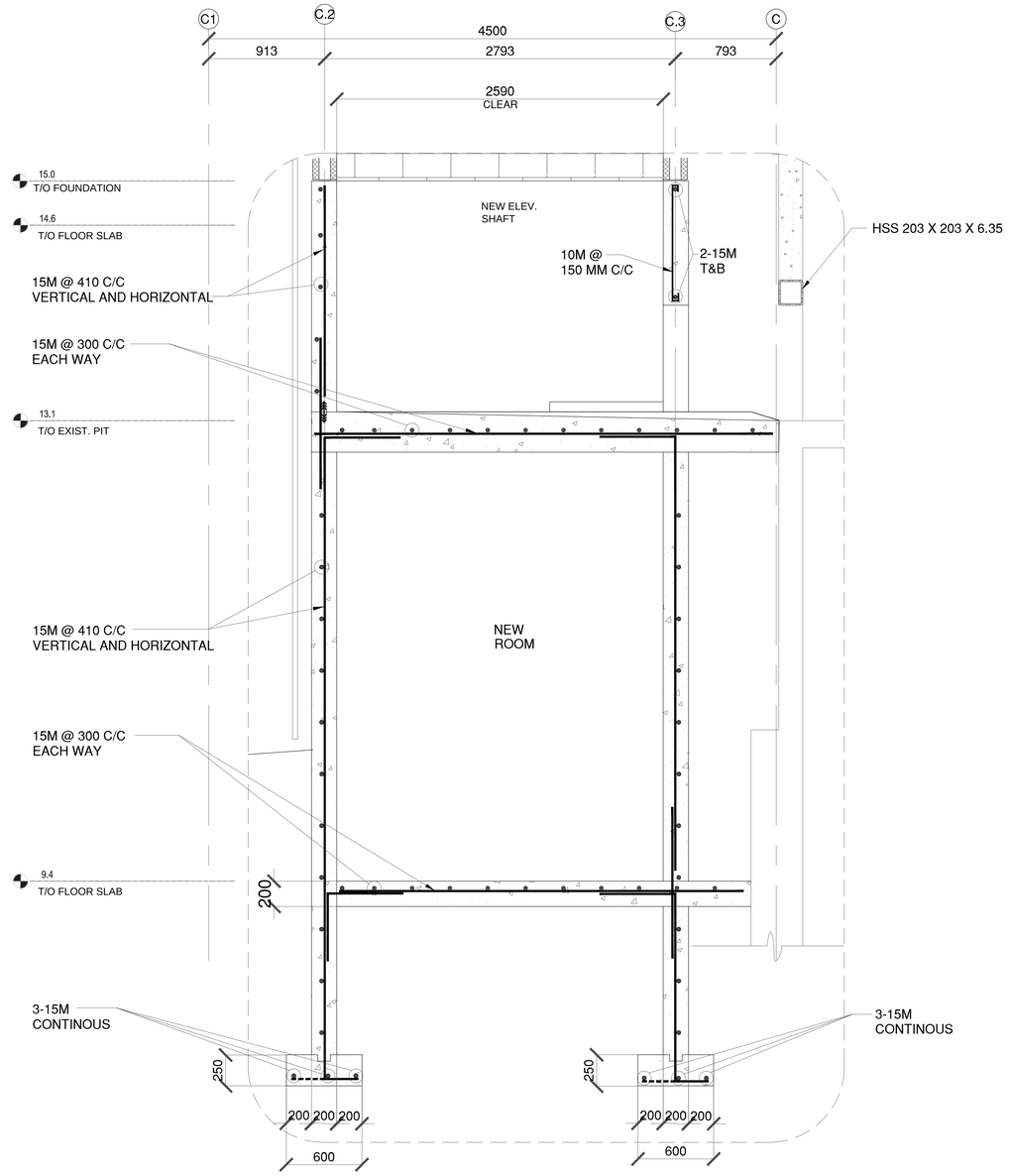


1 ELEVATOR SHAFT FOUNDATION SECTION
S-5 SCALE 1:25



2 ELEVATOR SHAFT FOUNDATION SECTION
S-5 SCALE 1:25

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Stamp / Sceau: REGISTERED PROFESSIONAL ENGINEER # 4389 J. B. Holder October 2, 2023 NEW BRUNSWICK PROVINCE DE NOUVEAU-BRUNSWICK

Project No. / №du projet: 19-719

Sheet No. / №de la feuille: S-5

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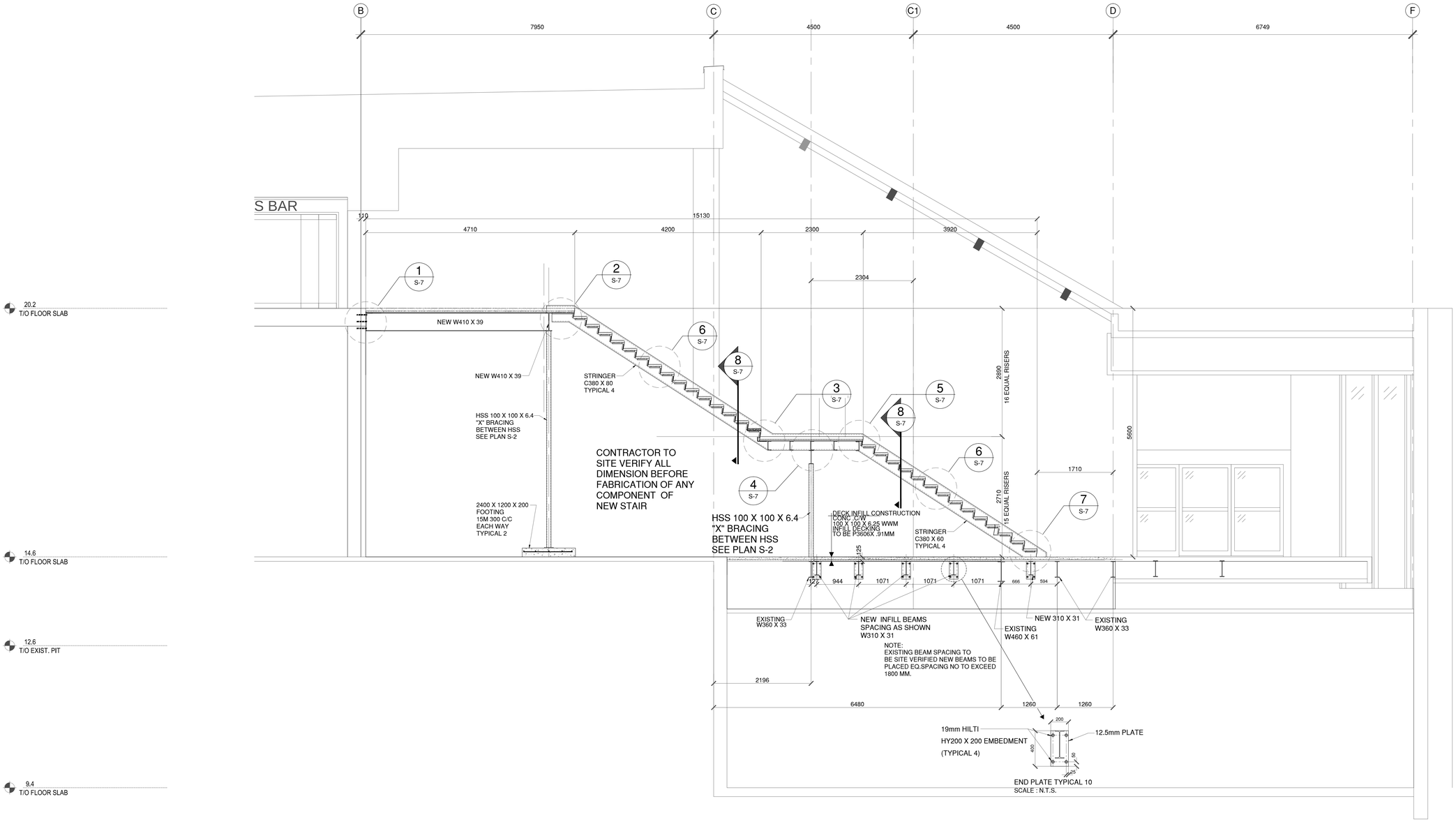

1 S-6

NEW STAIR SECTION

SCALE 1:50

CONTRACTOR TO
SITE VERIFY ALL
DIMENSION BEFORE
FABRICATION OF ANY
COMPONENT OF
NEW STAIR

SAINT JOHN

Murdock ◦ Boyd
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Revisions / Revisions	No/Nº	Date
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Project No. / Nº du projet: 19-719

Sheet No. / Nº de la feuille: S-6

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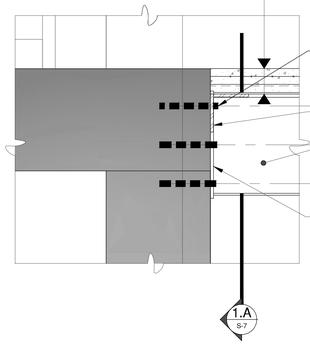
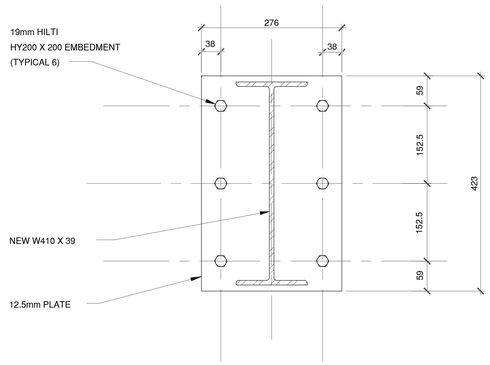


1 S-7 NEW STAIR DETAIL
SCALE N.T.S.
CONTRACTOR TO SITE VERIFY ALL DIMENSION BEFORE FABRICATION OF ANY COMPONENT OF NEW STAIR



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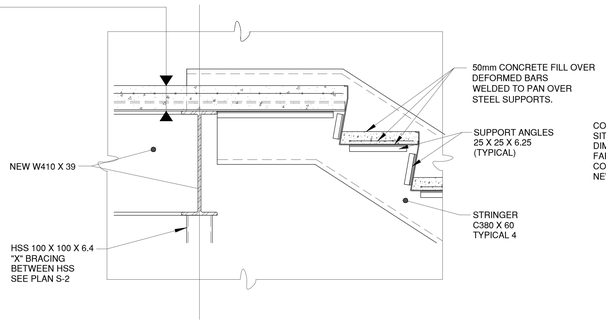

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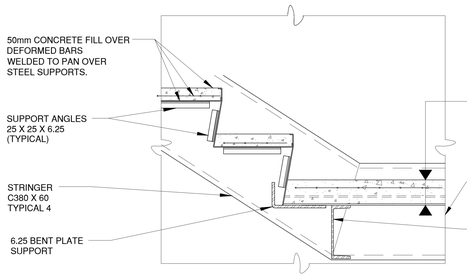

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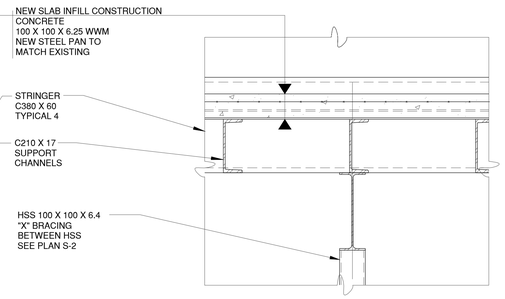

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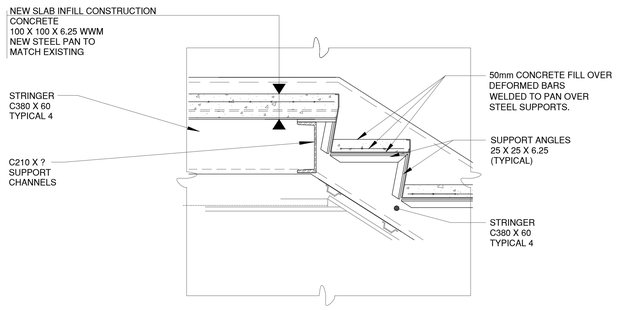

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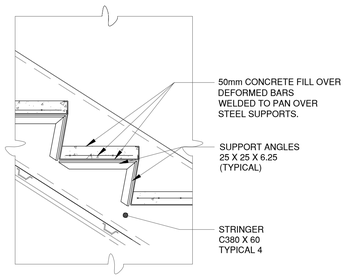

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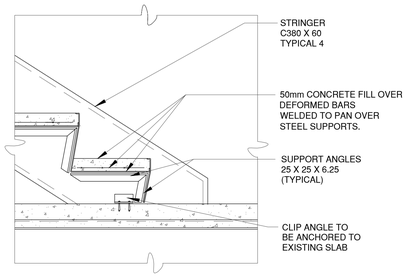

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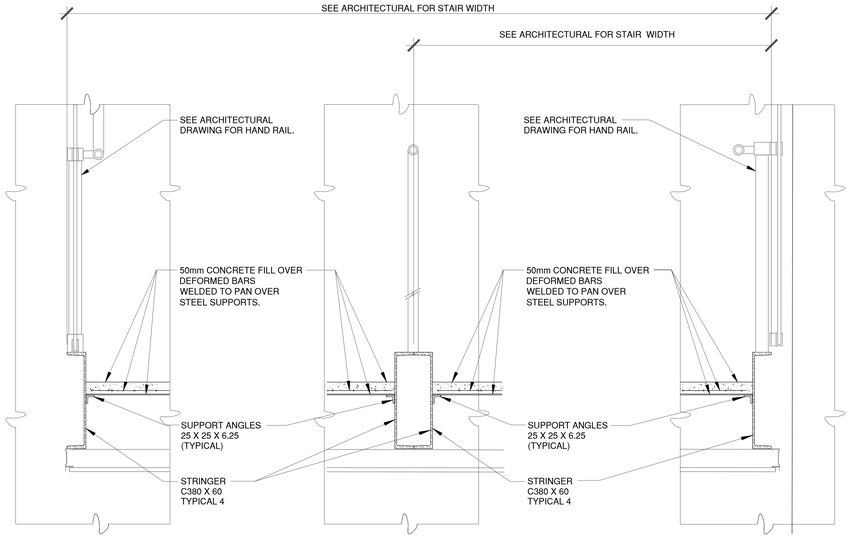

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SAINT JOHN

Murdock ◦ Boyd
ARCHITECTS

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REGISTERED PROFESSIONAL ENGINEER
Province of New Brunswick
4389
J. B. Holder
October 2 2023
Permit Holder to Practice
STRUCTURE INTERIOR

Project No. / Nº du projet: 20-752
Sheet No. / Nº de la feuille: S-7

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GENERAL NOTES

ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA (2015) AND EXECUTION TO BE IN ACCORDANCE WITH CURRENT WORKSAFE NB REGULATIONS.
ASSUMED ALLOWABLE ROCK/SPOIL MINIMUM BEARING PRESSURE TO BE 4000 PSF (190 KPA) OR AS PER PROJECT GEOTECHNICAL REPORT.
REFER TO ARCHITECTURAL DIMENSIONS, INSULATION REQUIREMENTS, CONTROL/EXPANSION JOINTS, AND DIMENSIONS (REPORT DISCREPANCIES IMMEDIATELY TO DESIGN TEAM).
ADVISE ENGINEER IMMEDIATLEY OF ANY UNEXPECTED SITE CONDITIONS, DISCREPANCIES, OR SUBSTITUTIONS
CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING AND SUPPORT DURING CONSTRUCTION AND CONFORMANCE TO ALL WORKSAFE NB REGULATIONS AND GOVERNING STANDARDS.
CONTRACTOR IS RESPONSIBLE FOR CONCRETE QUALITY ASSURANCE AND IS TO SUBMIT STREGTH DISCREPANCIES TO ENGINEER FOR REVIEW.
ALL MEASUREMENTS TO BE FIELD CONFIRMED BY CONTRACTOR PRIOR TO FABRICATION.
SPECIFIED DESIGN LOADS ARE AS FOLLOWS:

ROOF DEAD LOAD	25 PSF
ROOF SNOW LOAD	51 PSF
FIRST/SECOND FLOOR DEAD	70 PSF
FIRST/SECOND FLOOR LIVE AND STAIRS	100 PSF

REINFORCED CONCRETE

ALL WORK SHALL COMPLY WITH CAN/CSA A23.1-09 (R2014) CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION CEMENT SHALL BE TYPE 10 NORMAL PORTLAND CEMENT.CONCRETE EXPOSURE CLASS AIR CONTENT.
SLABS, FOUNDATIONS CLASS .
MINIMUM STRENGTH @ 28 DAYS TO BE

A. SLABS	35 MPA
B. FOOTINGS	25 MPA CLASS F-2
C WALLS	25 MPA CLASS F-2

NORMAL SIZE OF COARSE AGGREGATE TO BE 20 MM. MAXIMUM SLUMP SHALL BE 75mm (+/- 25mm
ADDITION OF WATER TO CONCRETE ON SITE NOT PERMITTED (APPROVED CONCRETE PLASTICIZER AS PER MANUFACTURERS INSTRUCTIONS TO INCREASE SLUMPCONCRETE GENERAL CONTRACTOR IS REPSONSIBLE FOR COORDINATION OF ALL EMBEDDED ITEMS IN CONCRETE.
ADDITON OF UNSPECIFIED ADMIXTURERS SHALL NOT BE ADDED WITHOUT PRIOR APPROVAL OF THE ENGINEERPRIOR TO FABRICATION, SUBMIT SHOP & FIELD PLACEMENT DRAWINGS CLEARLY INDICATING SIZE AND SPACING OF BARS (ALLOW 1 WEEK FOR REVIEW).
LAP SPLICES SHALL MEET THE REQUIREMENTS OF A-23.3 FOR CLASS "C" SPLICES AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 600 MM UNLESS NOTED OTHERWISE.
FOUNDATION WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS WITH HOOKED OR CORNER BARS AS SHOWN ON DRAWINGSSTEEL REINFORCEMENT TO CONFORM TO G 30.12 GRADE 400.
PLACE STEEL REINFORCEMENT IN ACCORDANCE WITH CSA A23.1, 2 and 3.
ALL WALL CORNERS TO HAVE EACH LAYER LAPPED WITH CORNER HOOKS 30" EACH LEG FOR CONTINUITY.
ALL OPENINGS TO BE CUT IN EXISITNG CONCRETE TO BE FACILITATED WITH CIRCULAR CORING AT CORNERS - DO NOT OVERCUT.
SEE ARCHITECTURAL FOR CONTROL JOINTS - CUT SLAB THICKENESS DIVIDED BY 4 MINIMUM DEPTH
ALL NEW CONCRETE TO BE DOWELLED TO EXISTING CONCRETE WITH HILTI HY 200 AND 10 M DOWELS 32 INCHES LONG AT 16 " C/C.

MASONRY

ALL MASONRY WORK TO BE IN ACCORDANCE WITH CSA A179 04 (MORTAR AND GROUT FOR UNIT MASONRY), CSA A371 04 (MASONRY CONSTRUCTION FOR BUILDINGS), AND CSA-S104.1-04 (MASONRY DESIGN FOR BUILDINGS).
SEE ARCHITECTURAL FOR CONTROL JOINT DESIGN AND LOCATION.
CONTRACTOR IS RESPONSIBLE FOR QUALITY ASSURANCE TESTING OF GROUT AND MORTAR.
ALL CONCRETE MASONRY WALLS TO BE FULLY GROUTED.
MORTAR AND GROUT TO CONFORM TO CSA-A179-04.
MASONRY UNITS TO CONFORM TO CSA-A371-04 (R 2009).
PROVIDE REINFORCED BOND BEAMS OVER ALL MASONRY OPENINGS REINFORCED WITH ONE 15 M CHAIRED 25 MM ABOVE THE UNIT INSIDE BOTTOM
ALL MORTAR TO BE TYPE S.
SEE DRAWING S1 FOR CONCRETE MASONRY REINFORCING AND LATERAL SUPPORT
SEE ARCHITECTURAL SPECIFICATION FOR ADDITONAL DETAIL.

STRUCTURAL STEEL

STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING, IN ADDITION TO LATEST VERSION OF CSA S16.1:

A.	FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH	AN/CSA-S16.
B.	WIDE FLANGE BEAMS AND WWF SECTIONS	CSA G40.21 350W
C.	MISCELLANEOUS ROLLED SECTIONS (EXCEPT WIDE FLANGES)	CSA G40.21 300W
D.	HOLLOW STRUCTURAL SECTIONS	ASTM A500 GRADE C
E.	ROLLED PLATES	CSA G40.21 300W
F.	BOLTS (SEE PLANS AND DETAILS)	ASTM A325
G.	STRUCTURAL STEEL ANCHOR RODS (U.N.O.)	ASTM A307
H.	REINFORCING BAR ANCHOR BOLTS	CAN/CSA-G30.18R, GRADE 400

FILLET WELDS SHALL BE 6 MM MINIMUM U.N.O.
BOLTS SHALL BE A325 20 MM Ø MINIMUM U.N.O.
BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED PIECE AND BE DESIGNED AS BEARING CONNECTIONS, U.N.O.
ALL WELDED HEADED STUDS AND WELDED DEFORMED BAR ANCHORS SHALL BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS OR SHOP FILLET WELDED. ANY FIELD FILLET WELDED DEFORMED BARS OR STUDS WILL BE REJECTED. SEE PLANS, SECTIONS, DETAILS, AND SCHEDULES FOR LOCATIONS ETC., THE CONTRACTOR SHALL CO-ORDINATE THE DESIGN, SUPPLY, AND INSTALLATION OF ALL STUDS AND ANCHORS, INCLUDING, BUT NOT LIMITED TO STUDS AND DEFORMED BAR ANCHORS ON COMPOSITE BEAMS, DRAG STRUTS, EMBEDDED PLATES, AND ANY OTHER RELEVANT ITEMS.
UNLESS NOTED OTHERWISE, COLUMN CAP PLATES SHALL BE 16 MM THICK AND COLUMN BASE PLATES SHALL BE 20 MM MINIMUM THICK.
PROVIDE 6 MM CAP PLATES FOR ALL HSS MEMBERS UNLESS NOTED OTHERWISE.
CONNECTION DETAILS SHALL BE DEVELOPED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER (NEW BRUNSWICK) AND SUBMITTED TO JB HOLDER ENGINEERING LTD FOR REVIEW.
CONNECTION DESIGN SHEAR TO BE FOR 50% OF THE MAXIMUM UNIFORMLY DISTRIBUTED LOAD IN A LATERALLY SUPPORTED CONDITON.
FRAME ROOF AND FLOOR OPENINGS GREATER THAN 450 MM IN ACCORDANCE WITH THE DETAILS IN THE GENERAL NOTES UNLESS NOTED OTHERWISE ON THE PLANS.
UNLESS NOTED OTHERWISE ON THE PLANS, REFER TO THE DETAILS IN THE GENERAL NOTES FOR FRAMING FOR SUPPORT OF ROOF TOP MECHANICAL EQUIPMENT.
STEEL TO BE EXPOSED IN FINISHED WORK SHALL BE CLEANED, PREPARED, PRIMED AND PAINTED IN ACCORDANCE WITH CSA STANDARD S16 AND THE ARCHITECTURAL DRAWINGS AND PAINTING SPECIFICATION STONHARD CARBOGUARD 890 (2 COATS 4 MILS EACH COAT) AND 1 COAT OF CARBOTHANE 133 LH (2-3 MILS) COLOUR BY ARCHITECT.
ALL COATINGS TO BE REPAIRED ACCORDING TO MANUFACTURER INSTRUCTION
ALL STRUCTURAL STEEL OUTSIDE OF THE BUILDING ENVELOPE TO BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
DESIGN DRAWINGS INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. SEE ALSO ARCHITECTURAL DRAWINGS FOR ROOF AND FLOOR ELEVATIONS, ROOF SLOPES, EDGE DETAILS, AND ADDITIONAL DIMENSIONS AND DETAILS. WHERE ELEVATIONS, ROOF SLOPES, ETC., ARE SHOWN ON THE STRUCTURAL DRAWINGS, THEY MUST BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS.
UNLESS NOTED OTHERWISE, DO NOT OVERSIZE HOLES IN STEEL TO FIT ANY ANCHOR LOCATIONS. FOR COLUMN BASE PLATE HOLES, UNLESS NOTED OTHERWISE ON DRAWINGS, FOLLOW STANDARD PRACTICE WHICH IS TO USE SLIGHTLY OVERSIZED HOLES.
USE 6 MM OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS UP TO AND INCLUDING
27 MM DIAMETER, AND 12 MM OVERSIZED HOLE DIAMETER FOR COLUMN ANCHOR RODS GREATER THAN 27 mm DIAMETER.
DEMOLITION
ALL METAL DECK CONSTRUCTION TO CONFORM TO CSSBI 10 M OR CSSBI 12 M.
ALL ROOF DECK TO BE CANAM 38 MM P3606 X 18 GAUGE OR APPROVED EQUAL.
ALL FLOOR DECK TO BE CANAM 76 MM LF3 X 18 GAUGE OR APPROVED EQUAL.
ALL SIDE LAPS TO BE SELF DRILLING SCREWS AT 12 INCHES C/C, MINIMUM.
ALL DECK TO BE FASTENED TO STEEL AS FOLLOWS:
FLOOR 4" NELSON STUD 3/4 AT 1200 MM MAXIMUM
ROOF 3/4 PUDDLE WELD OR SELF DRILLING SCREWS AT 12" C/C
ALL ADHESISVE ANCHORS TO BE HILTI HY200 WITH B7 RODS - 3/4 MINIMUM

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ARCHITECTS

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Project Title / **Titre du projet**

PED WAY NEW ELEVATOR AND STAIR RENOVATION

Sheet title / **Titre de la feuille**

STRUCTURAL NOTES

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REGISTERED PROFESSIONAL ENGINEER
PROFESSIONNEL INGÉNIEUR ENREGISTRÉ
4389
J. B. Holder
October 2, 2023
Not valid unless sealed and signed
Non valide sans le sceau et la signature
NEW BRUNSWICK NOUVEAU-BRUNSWICK

Project No. / **Nº du projet**	19-719
Sheet No. / **Nº de la feuille**	S-8