SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
3E 2	ISOLATION TRANSFORMER — DELTA—WYE UNLESS OTHERWISE NOTED.	DSP	GROUND FAULT ALARM RELAY
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD — DELTA—WYE UNLESS OTHERWISE NOTED.	DMS	IP BASED POWER QUALITY DIGITAL METER. PROVIDE 21mm(3/4") CONDUIT TO NEAREST TELECOM ROOM.
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN	<u> </u>	EMERGENCY GENERATOR
<del>***</del>	LOW VOLTAGE, DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN	Ţ	GROUND CONNECTION POINT
<del>~</del>	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND	GF	ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
- ~ <del>-</del>	FRAME SIZE AS SHOWN.  FUSIBLE LOAD BREAK ISOLATION SWITCH.  VOLTAGE, FUSE AND FRAME SIZE AS SHOWN.	Q	GROUND LOOP
	FUSE	HRG	HIGH RESISTANCE GROUND FAULT SYSTEM
-₽-^	INSULATED CASE CIRCUIT BREAKER	~ ⊶Iı	LIGHTNING SURGE ARRESTOR
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		LOAD BANK
•	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN	LS	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT)
-	LOAD BREAK ISOLATION SWITCH. VOLTAGE AND FRAME SIZE AS SHOWN.	LSI	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS)
$\overline{\Sigma}$	AUTOMATIC TRANSFER SWITCH WITH BY-PASS	LSIG	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)
$\overline{\Sigma}$	AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS	(M)	METERING SOCKET
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS)	<b>⊗ ⊕√r</b>	METERING CABINET
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH	EM	DIGITAL ELECTRONIC METER
A	AMMETER	-[SPD]	SURGE PROTECTION DEVICE
¥-	AUTO-TRANSFORMER		
<u>-</u>     <del> -</del>	BATTERY		
<u>C</u>	CONTACTOR		
⊱	CURRENT TRANSFORMER		
8_	CURRENT TRANSFORMER (Z.S. – DENOTES ZERO SEQUENCE)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

5 SINGLE LINE DIAGRAM 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ACCESS	CONTROL	
ACP	ACCESS CONTROL SYSTEM PANEL	KS	KEY SWITCH
ACSS	ACCESS CONTROL SYSTEM SERVER	LBM	LATCH BOLT MONITOR
ADO	AUTOMATIC DOOR OPERATOR	LRX	LATCH BOLT MONITOR REQUEST TO EXIT
BR	BIOMETRIC READER	MKR	MAGLOCK KEY RESET SWITCH
CR	CARD READER	МНО	MAGNETIC DOOR HOLD/OPEN DEVICE
CMS	CENTRAL MANAGEMENT STATION	ML	MAGNETIC LOCK
DA	DOOR ALARM	MRX	MOTION REQUEST TO EXIT
DC	DOOR CONTACT	[PSCU]	POWER SUPPLY CONTROL UNIT
EHO	ELECTRIC DOOR HOLD/OPEN DEVICE	·	PUSH BUTTON DOOR OPERATOR
ELR	ELECTRIC LATCH RETRACTION	PRX	PUSH BUTTON REQUEST TO EXIT
EML	ELECTRIC MORTISE LOCK	RR	REMOTE RELEASE
ES	ELECTRIC STRIKE	RFN	RF NODE
GTW	GATEWAY	RFR	RF RECEIVER
IDC	IP DOOR CONTROLLER	⟨××⟩	SECURITY DOOR TAG. XX DENOTES TYPE
KEN	KEY ENCODER	WL)	WIRELESS LOCK
	REAL TIME LOCATII	NG SYSTEM	(RTLS)
(FE)	LOW FREQUENCY EXCITER	@FRM	RF READER MASTER
IRR	INFRARED READER	· @FR	RF READER
RDU	REMOTE DISPLAY UNIT	<b>FER</b>	RF ETHERNET READER
LAR	LOCAL AREA RECEIVER	<b>FIR</b>	RF LONG RANGE READER
	ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND I	DRAWINGS	•

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
φ	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R	₩7	WALL MOUNTED COMBINATION COMMS./ QUADPLEX RECEPTACLE 120 VOLT, 15 AMP. CSA 5-15R, REFER TO DETAIL
 #	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		15 AMP, CSA 5-15R. REFER TO DETAIL.  FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION /
<del>•</del>	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)	<b>⊕√</b>	QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
₩	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR POKE THROUGH COMBINATION COMMUNICATION / QUADPLEX
φ	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
•	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5–20R, DEDICATED CIRCUIT		FLOOR POKE THROUGH AS ABOVE WITH AUDIO/VISUAL REQUIREMENT. REFER TO DETAIL.
Φ	WALL MOUNTED, SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R	₩	WALL MOUNTED COMBINATION COMMS./ DUPLEX RECEPTACLE 120 VOLT,
₩	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 15 AMP, CSA		15 AMP, CSA 5-15R. REFER TO DETAIL.  FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION /
<b>₹</b>	5-15R  WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT,	Φ7	DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
—————————————————————————————————————	15 AMP, CSA 5-15R  WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP CSA		FLOOR POKE THROUGH COMBINATION COMMUNICATION / DUPLEX RECEPTACLE
	5-20R  WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120 VOLT,		120 VOLT, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
—— <u>"</u> ——————————————————————————————————	20 AMP CSA 5-20R  WALL MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR POKE THROUGH AS ABOVE WITH AUDIO/VISUAL REQUIREMENT. REFER TO
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, 2 POLE, SPLIT CIRCUIT		DETAIL. SYSTEMS FURNITURE FEED POINT FOR
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, 2	•	POWER & COMMS. CABLING. LETTER DENOTES FEED LOCATION: W= WALL, F= FLOOR, P= PAC POLE, WM = WIREMOLD
Ψ	POLE, SPLIT CIRCUIT  WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 15 AMP, 3ø CSA 15-15R	Φ	CEILING MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
φ	SPECIAL RECEPTACLE. TYPE AND DETAILS AS NOTED ON DRAWING.	φ	CEILING MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
' Ø	WALL MOUNTED ABOVE COUNTER SIMPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA	<b>→</b>	CEILING MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
<u>'</u>	5-15R  WALL MOUNTED SIMPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
—— <u>'</u> ——	WALL MOUNTED SIMPLEX RECEPTACLE 250 VOLT, 30 AMP, CSA 14-30R		FLOOR MOUNTED QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R
Φ	WALL MOUNTED SIMPLEX RECEPTACLE	• • • •	RACEWAY RECEPTACLE, TYPE AS SPECIFIED C/W QUANTITY OF DEVICES
❤	120 VOLT, 30 AMP, CSA 5-30R  WALL MOUNTED SIMPLEX RECEPTACLE	— <del>"-"-"-</del>	SERVICE POLE, TYPE AS SPECIFIED C/W
Υ	250 VOLT, 50 AMP, CSA 14-50R		QUANTITY OF DEVICES INDICATED

3 POWE	ER LEGEND 1 OF 2	<u>.</u>	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.	©	CONTACTOR
	FLUSH MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE	Q Q	GROUND ROD WITH INSPECTION PIT
_=_	LINE/PANEL SCHEDULE. SURFACE MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.	1	THERMOSTAT-16mm (1/2") CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE.	JB	JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC UNIT HEATER
	DISCONNECT	X	ELECTRIC BASEBOARD HEATER. 'X' DENOTES TYPE. REFER TO BASEBOARD HEATER SCHEDULE.
□	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT	<u> </u>	GROUND BAR
<b>Z</b> ₁	COMBINATION STARTER WITH INTEGRAL DISCONNECT	HD	HAND DRYER HARD WIRED CONNECTION
<b>(A)</b>	DIRECT CONNECTION	M	METER
	DIRECT CONNECTION C/W DISCONNECT	R	RELAY
<u></u>	MOTOR C/W DISCONNECT	PB	PULL BOX
	MOTOR C/W RELAY DISCONNECT DISCONNECT	•	GROUND BUS
	MOTOR C/W COMBINATION STARTER WITH INTEGRAL DISCONNECT	$\Diamond$	DENOTES RECEPTACLE TYPE. REFER TO RECEPTACLE SCHEDULE.
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR. LINE		UTILITY METERING CABINET
FVFD Ó	AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. MOTOR, VFD AND	□	DOOR BELL/CHIME
	HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.	Ф	CLOCK WALL MOUNTED
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.	Ф	CLOCK CEILING MOUNTED
VFD		•	PUSH BUTTON
		NÒ	MOTOR
[HF]	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE.) LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR.		

4 POWER LEGEND 2 OF 2

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 LIGHTING LEGEND 1 OF 2

SYMBOL

 $\nabla\nabla\nabla$ 

B

DESCRIPTION

CEILING MOUNTED WALL WASHER LUMINAIRE. ILLUMINATION DIRECTION DENOTED BY HATCHED SIDE.

WALL MOUNTED LUMINAIRE

CEILING MOUNTED LUMINAIRE

FLOOR MOUNTED LUMINAIRE

PENDANT FIXTURE

BOLLARD LUMINAIRE

CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES.

TRACK LIGHT WITH PENDANT LUMINAIRE AS INDICATED

EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN

EMERGENCY LIGHTING BATTERY + EXIT
LIGHT COMBINATION UNIT C/W NUMBER

EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED

EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED

B P EMERGENCY LIGHTING BATTERY UNIT

OF HEADS SHOWN

SYMBOL

DESCRIPTION

CEILING MOUNTED LINEAR LUMINAIRE.
DIMENSIONS AS SHOWN. REFER TO
SCHEDULE FOR TYPE.

DENOTES FIXTURE ON EMERGENCY/NIGHT LIGHT CIRCUIT.

WALL MOUNTED LINEAR LUMINAIRE.
DIMENSIONS AS SHOWN. REFER TO
SCHEDULE FOR TYPE.

CEILING MTD. LUMINAIRE OR BASKET
LUMINAIRE. LAMP ORIENTATION AS
SHOWN. REFER TO SCHEDULE FOR TYPE.

EXISTING LUMINAIRE TO BE REMOVED

POLE MOUNTED LUMINAIRE. NUMBER OF HEADS SHOWN. REFER TO SCHEDULE FOR FIXTURE AND POLE TYPE.

CEILING MOUNTED LUMINAIRE WITH GIMBALLED HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS.

VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE

RECESSED CEILING MOUNTED REMOTE
ADJUSTABLE LUMINAIRE CONNECTED TO
EMERGENCY LIGHTING BATTERY UNIT.

T WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD

WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD

CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD

CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD

REFER TO SCHEDULE FOR FIXTURE TYPE.

CONTINUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE.

STAGGERED COVE LIGHT. DIMENSIONS AND NUMBER OF FIXTURES SHOWN.

EXISTING LUMINAIRE TO REMAIN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		
\$	2 GANG - LINE VOLTAGE LIGHT SWITCH		
#	3 GANG - LINE VOLTAGE LIGHT SWITCH		
<b>\$</b> 3	3 WAY - LINE VOLTAGE LIGHT SWITCH		
<b>\$</b> 4	4 WAY - LINE VOLTAGE LIGHT SWITCH		
\$ <sup>LV</sup>	LOW VOLTAGE LIGHT SWITCH		
<b></b> ≰K	KEY OPERATED LINE VOLTAGE SWITCH		
\$ <sup>MS</sup>	MASTER SWITCH		
\$ <sup>AO</sup>	ALL-OFF SWITCH		
\$	SINGLE POLE 347V SWITCH		
₽	DIMMER TYPE TO SUIT LOAD		
PC	CEILING MOUNTED PHOTO CELL SWITCH		
PC	WALL MOUNTED PHOTO CELL SWITCH		
(DL)	DAY LIGHT PHOTO SENSOR		
M	TIME SWITCH		
<u>OS</u> 'x'	CEILING MOUNTED OCCUPANCY SENSOR.  TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
OS 'X'	WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY 'X'. REFER TO OCCUPANCY SENSOR SCHEDULE.		
LC	LIGHTING CONTROL MODULE		
DIM	MULTI-ZONE LIGHTING CONTROL PANEL		
RS	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON		
IR	PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL		
NOTE: NOT	ALL SYMBOLS APPLY, REFER TO FLOOR PLANS	AND DRAWINGS	

DRAWING No.	DRAWING NAME			
TE-0.1	DRAWING LIST AND LEGEND			
TE-0.2	ELECTRICAL DETAILS			
TE-0.3	ELECTRICAL DETAILS			
TE-0.4	ELECTRICAL DETAILS			
TE-4.1A	4TH FLOOR LIGHTING AND FIRE ALAR	RM LAYOUT (PAR	Т А)	
TE-4.1B	4TH FLOOR LIGHTING AND FIRE ALAR	RM LAYOUT (PAR	ТВ)	
TE-4.1C	4TH FLOOR LIGHTING AND FIRE ALAR	RM LAYOUT (PAR	т с)	
TE-4.2A	4TH FLOOR POWER AND SYSTEMS L.	AYOUT (PART A)		
TE-4.2B	4TH FLOOR POWER AND SYSTEMS LA	AYOUT (PART B)		
TE-4.2C	4TH FLOOR POWER AND SYSTEMS LAYOUT (PART C)			
TE-4.3A	4TH FLOOR LIGHTING AND FIRE ALARM DEMOLITION LAYOUT (PART A)			
TE-4.3B	4TH FLOOR LIGHTING AND FIRE ALARM DEMOLITION LAYOUT (PART B)			
TE-4.3C	4TH FLOOR LIGHTING AND FIRE ALARM DEMOLITION LAYOUT (PART C)			
TE-4.4A	4TH FLOOR POWER AND SYSTEMS D	4TH FLOOR POWER AND SYSTEMS DEMOLITION LAYOUT (PART A)		
TE-4.4B	4TH FLOOR POWER AND SYSTEMS D	EMOLITION LAYOU	JT (PART B)	
TE-4.4C	4TH FLOOR POWER AND SYSTEMS DEMOLITION LAYOUT (PART C)			
TE-4.5	4TH FLOOR WASHROOMS LIGHTING & FIRE ALARM LAYOUT			
TE-4.6	4TH FLOOR WASHROOMS POWER & SYSTEMS LAYOUT			
TE-4.7	4TH FLOOR WASHROOMS LIGHTING & FIRE ALARM DEMOLITION LAYOUT			
TE-4.8	4TH FLOOR WASHROOMS LIGHTING & FIRE ALARM DEMOLITION LAYOUT			

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SIGNALING	DEVICES	
<b>▽</b>	HORN	S	CEILING MOUNTED EMERGENCY EVACUATION SPEAKER
	DOUBLE SIDED HORN	<u>©</u>	WALL MOUNTED EMERGENCY EVACUATION SPEAKER
<b>₩</b>	HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.  DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.	- <del>}</del> S}:	CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
<b>X</b>	MINI HORN  SPEAKER HORN	- - ₹ <u>\$</u> }	WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	FIRE ALARM BELL. 103mm(4") UNLESS OTHERWISE NOTED.	₩	CEILING MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
¥	FIRE ALARM BELL/STROBE. 103mm(4") BELL UNLESS OTHERWISE NOTED. 15CD INTENSITY UNLESS OTHERWISE NOTED.	型	WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
•	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR	SS	10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES
<b>⊗</b> SA	LOCAL 120V SMOKE ALARM		FIRE ALARM PANEL. CONTROL, DGP OR ANNUNCIATOR AS NOTED.
CO/SA ❸	LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM	N	MANUAL PULL STATION
<b>€</b> CO	LOCAL 120V CARBON MONOXIDE DETECTOR		
<b>≫</b> SA	LOCAL 120V COMBINATION STROBE AND SMOKE ALARM		
<b>⊕</b> m	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 LIGHTING LEGEND 2 OF 2

YMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
6	DETAIL NUMBER	12	SECTION NUMBER
E-01	DRAWING NUMBER	E-01	DRAWING NUMBER
	REVISION NUMBER		REVISION BUBBLE
A	AMPS	MO MOD	MOTOR OPERATED DAMPER
AD AFCI	ACCESS DOOR  ARC FAULT CIRCUIT INTERRUPTER	MW	MOTOR OPERATED DAMPER  MICROWAVE
AFF	ABOVE FINISHED FLOOR	N N	NEW
BBH	BASEBOARD HEATER	NC	NORMALLY CLOSED
BU	BATTERY UNIT	NIC	NOT IN CONTRACT
С	CONDUIT	NL	NIGHT LIGHT
CD	CANDELA	NO	NORMALLY OPEN
CL	CEILING MOUNTED	ОС	OVER COUNTER
CS	CHARGING STATION	OL	OBSTRUCTION LIGHT
CV	CONVENTIONAL STYLE DEVICE	Р	PARABOLIC LOUVRE
D	DEDICATED	PL	PATIENT LIFT
DG	DEDICATED GROUND	R	RELOCATE
DHWT	DOMESTIC HOT WATER TANK	RA	RANGE
DNC DR	DEDICATED NEUTRAL + BOND  LAUNDRY DRYER	RC	REVISE EXISTING CIRCUIT  RANGE HOOD
DW	DISHWASHER	RH RIC	ROUGH IN AND CONNECT
E	EXISTING	RO	ROUGH IN ONLY
 EF	EXHAUST FAN	RR	REMOVE AND REINSTALL
EM	EMERGENCY CIRCUIT	SC	SEPARATE CIRCUIT
EP	ELECTRICAL SUITE PANEL	SF	SYSTEM FURNITURE
ER	EXISTING TO BE REMOVED	SP	SUITE ALARM PANEL
F	REFRIGERATOR	SSP	SLAVE SUITE ALARM PANEL
FF	FLOOR FEED	TYP	TYPICAL
FFH	FORCE FLOW HEATER	UC	UNDER CABINET MOUNTED
FL	FLOOR MOUNTED	U	UPS CIRCUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
GFI GND	GROUND FAULT INTERRUPTER GROUND	UPS V	UNINTERRUPTIBLE POWER SUPPLY  VOLTS
HK	HOUSE KEEPING	W	WATTS
HMT	HARMONIC MITIGATING TRANSFORMER	WG	WIRE GUARD
ICE	ICE MACHINE	WAP	WIRELESS ACCESS POINT
IG	ISOLATED GROUND	WF	WALL FEED
JB	JUNCTION BOX	WP	WEATHERPROOF
KW	KILOWATTS	Х	EXPLOSION PROOF DEVICE + BACK BOX
LV	LOW VOLTAGE	ZSCT	ZERO SEQUENCE CURRENT TRANSFORMER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 GENERAL AND SYMBOLS AND ABBREVIATIONS

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SUBMISSION	DATE	DESCRIPTION
1	2022-03-14	ISSUED FOR 60% REVIEW
2	2022-04-27	ISSUED FOR 80% REVIEW
3	2022-05-31	ISSUED FOR 97% REVIEW
4	2022-06-13	ISSUED FOR TENDER
5	2022-08-08	ISSUED FOR PERMIT
6	2022-11-18	ISSUED FOR CONSTRUCTION

PROJECT CONTACT

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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

NORTH:

ENGINEER:

STAMP:



PROJECT:

# YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

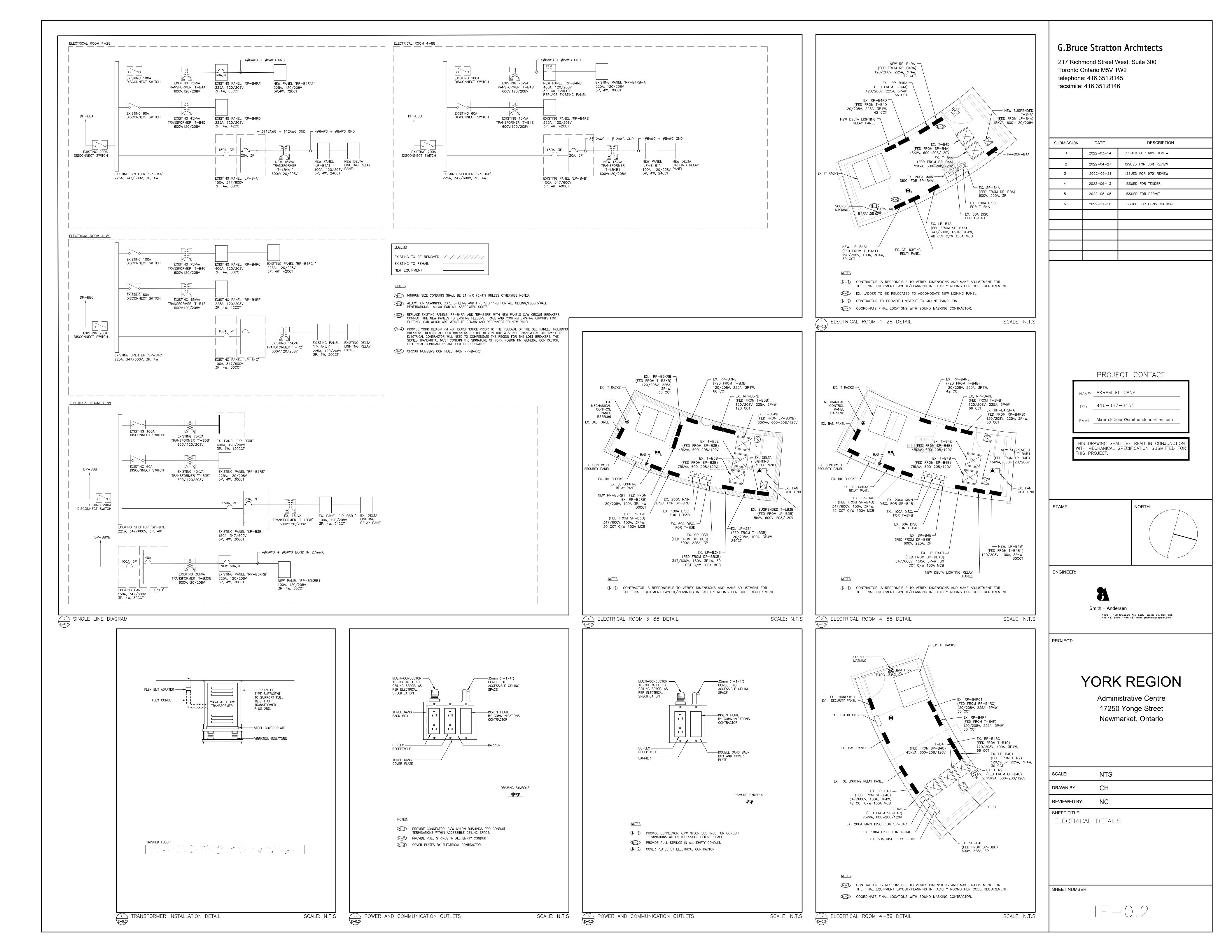
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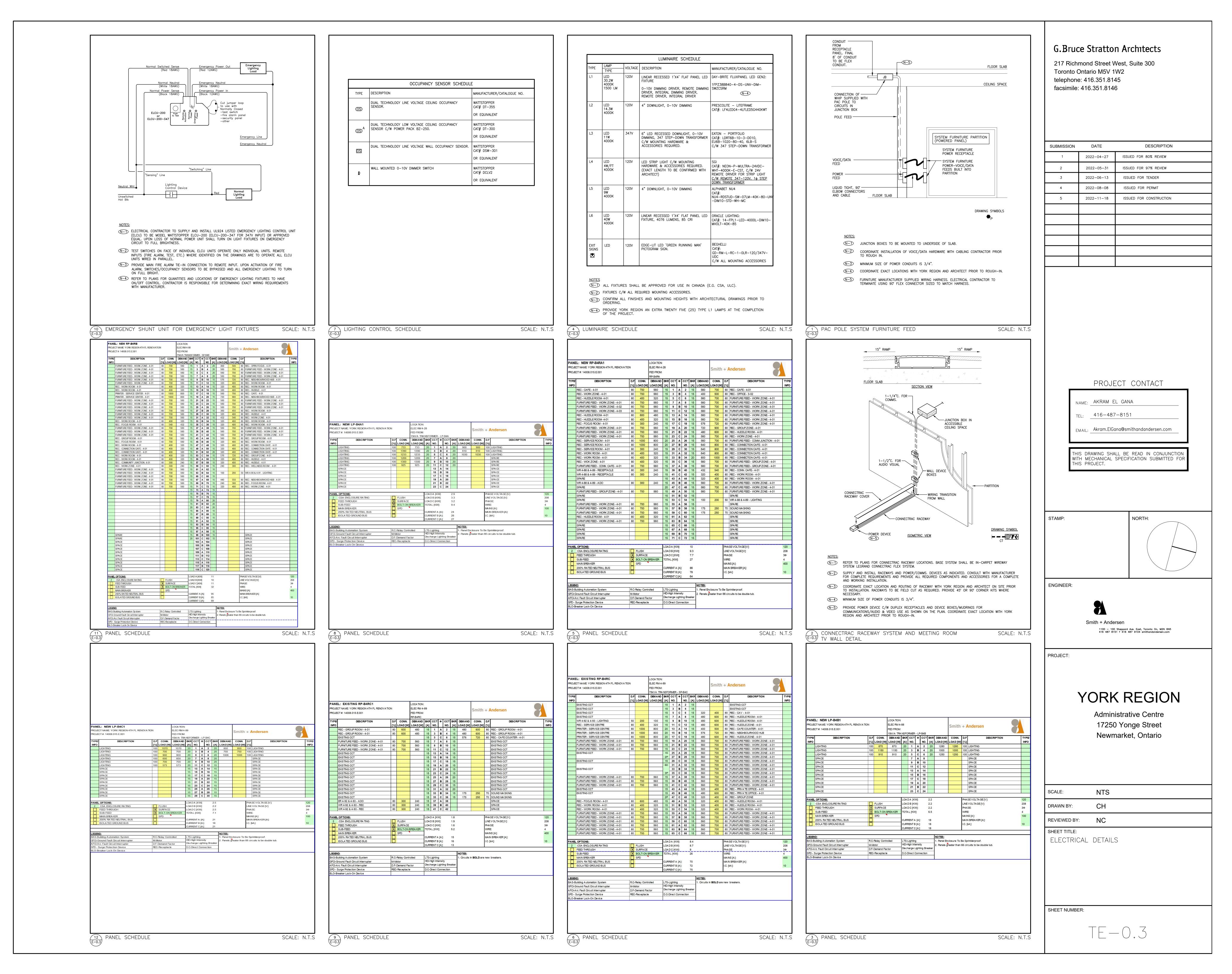
REVIEWED BY: NC

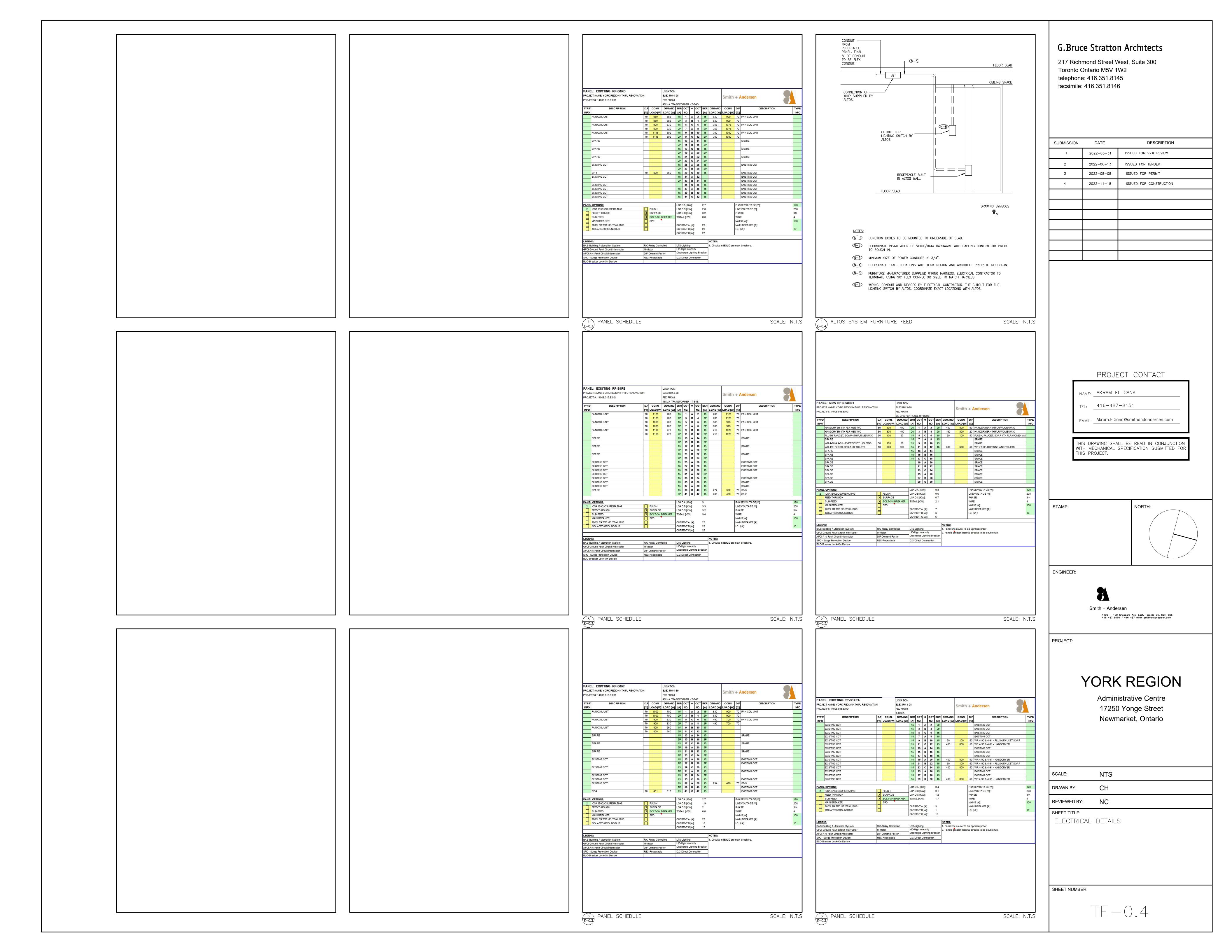
SHEET TITLE:
ELECTRICAL DRAWING LIST
& LEGEND

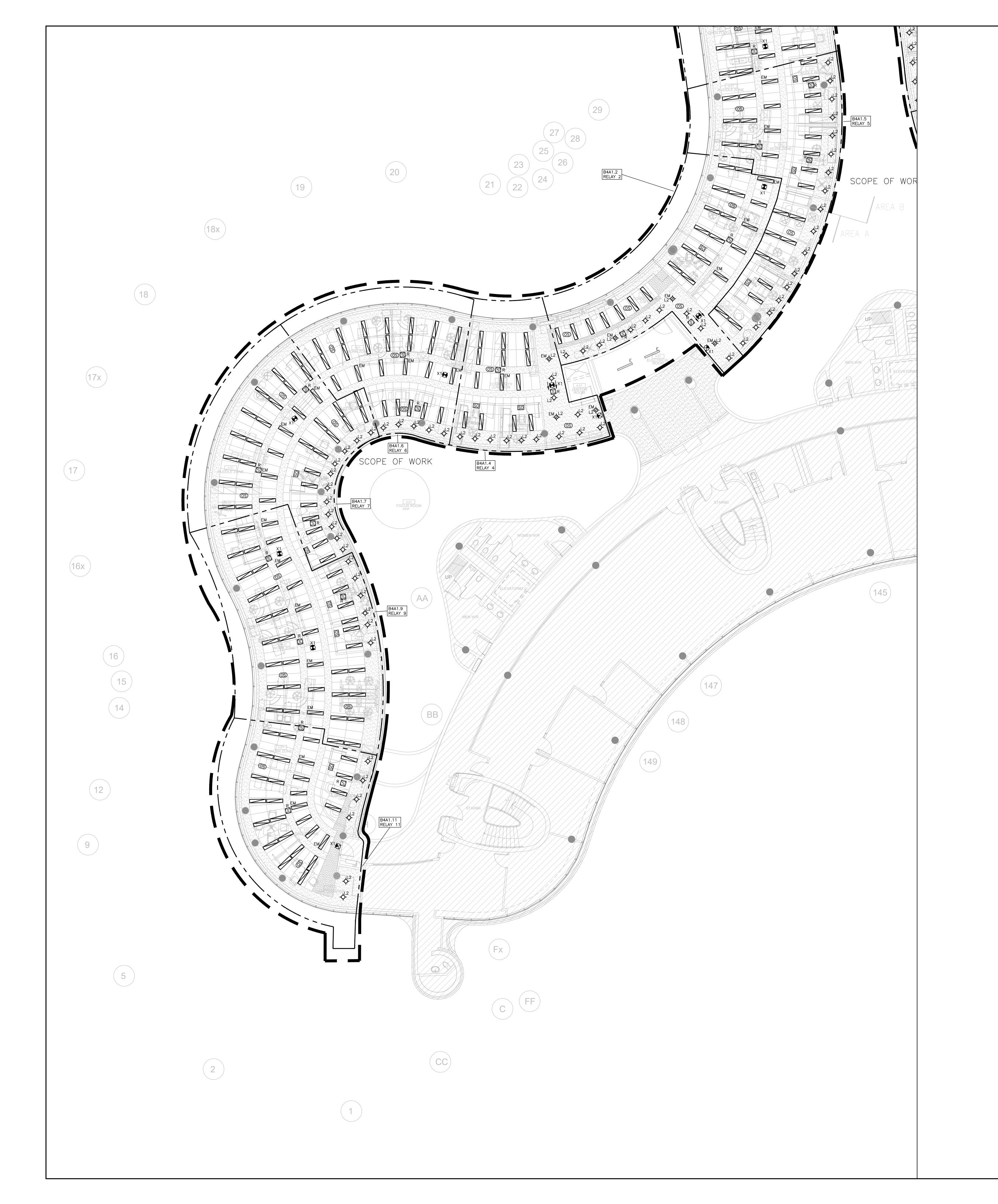
SHEET NUMBER:

TE-0.1









- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- 2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR RETAINED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNUSED EXISTING LUMINAIRES TO THE REGION AND TURN OVER ALL SELECTED LUMINAIRES AT A PLACE DESIGNATED BY THE REGION. DISPOSE OF ALL LUMINAIRES REJECTED BY THE REGION.
- 4. ALL NEW/RELOCATED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE—OUT DOCUMENT SUBMITTAL PACKAGE.
- 5. REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. MI CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
- 6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE 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.
- 7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS. EQUAL TO THOMAS AND BETTS EA SERIES COMPLETE WITH BRUSHED ALUMINUM FINISH, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC VOLTAGE INPUT UNLESS OTHERWISE NOTED. OR MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS
- 8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- 9. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM SPEAKER/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE
- SPARE EMERGENCY ZONE CIRCUIT(S). CONNECT NEW SPEAKER/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 LATEST EDITION. INCLUDE IN THE COST TO PROVIDE TWO (2) ADDITIONAL FIRE ALARM SPEAKERS AND ONE (1) ADDITIONAL AUDIBILITY VERIFICATION.
- 10. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.11. REWORK EXISTING SWITCHING TO ACCOMMODATE THE NEW LIGHTING LAYOUT WITHIN THE TENANT SPACE.
- 12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER EXTENDERS ON ALL DIMMERS AS REQUIRED. REFER TO SPECIFICATIONS FOR DETAILS ON DIMMER RATINGS.
- 13. REUSE EXISTING CIRCUIT FOUND IN CEILING SPACE FOR ALL NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS WHERE REQUIRED. NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH THE REGION AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.
- 14. PROVIDE NEW LUMINAIRE DISCONNECTS THAT COMPLY WITH REQUIREMENTS SPECIFIED IN OESC PART 1, RULE 30-308(4) LATEST EDITION FOR ALL LIGHT FIXTURES THAT EXCEED 150V SHOWN AS NEW AND OR RELOCATED. ALL NEW AND RELOCATED FIXTURES (THAT EXCEED 150V) SHALL BE MARKED IN A CONSPICUOUS, LEGIBLE, AND PERMANENT MANNER ADJACENT TO THE DISCONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSE.
- 15. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS. REFER TO DETAIL 10/E-0.3 FOR REQUIREMENTS.
- 16. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK
- 17. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- 18. ONCE THE THERMOSTAT OVERRIDE BUTTON IS PRESSED, THE LIGHTING SYSTEM IS TO ACTIVATE THE HALLWAY LIGHTING. COORDINATE LOCATION OF THERMOSTAT WITH MECHANICAL.

### DRAWING NOTES:

- N-1) ALL LIGHT FIXTURES ARE TYPE 'L1' UNLESS OTHERWISE NOTED.
- MIRROR LIGHT TO BE CONNECTED TO THE SAME CIRCUIT AS L2 FIXTURES IN THE SAME ROOM, AND CONTROLLED VIA THE LOCAL SWITCH.
- N-3 FINAL LOCATIONS OF POTLIGHTS TO BE COORDINATED ON-SITE.

### **G.Bruce Stratton Architects**

217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

SUBMISSION	DATE	DESCRIPTION
1	2022-03-14	ISSUED FOR 60% REVIEW
2	2022-04-27	ISSUED FOR 80% REVIEW
3	2022-05-31	ISSUED FOR 97% REVIEW
4	2022-06-13	ISSUED FOR TENDER
5	2022-08-08	ISSUED FOR PERMIT
6	2022-11-18	ISSUED FOR CONSTRUCTION
	_	

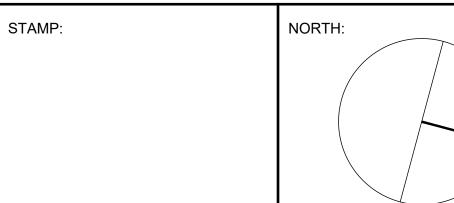
### PROJECT CONTACT

NAME: AKRAM EL GANA

TEL: 416-487-8151

EMAIL: Akram.ElGana@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



ENGINEER:



Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5
416 487 8151 f 416 487 9104 smithandandersen.com

PROJECT:

# YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

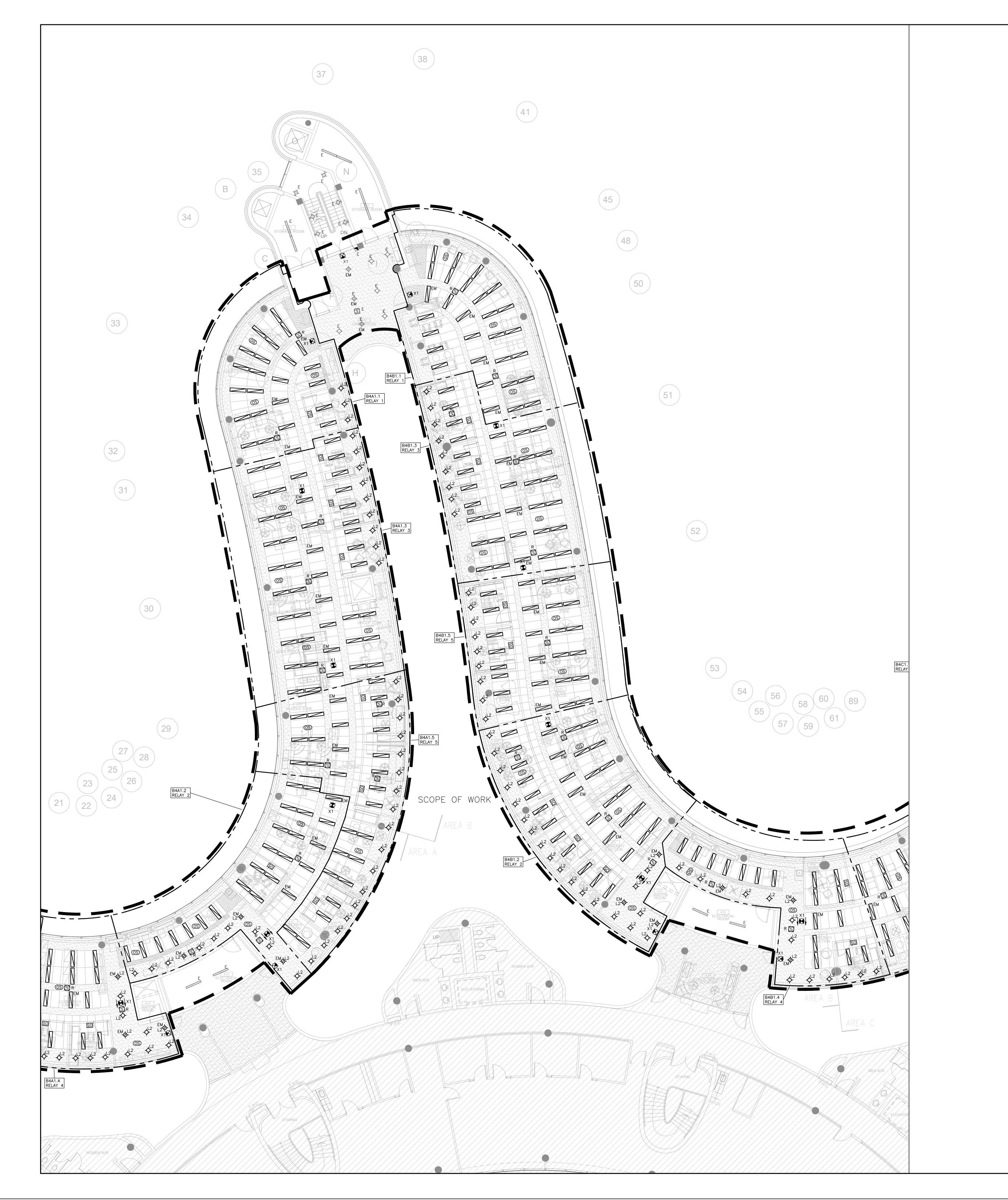
SCALE:	1:100	
DRAWN BY:	СН	
REVIEWED BY:	NC	

### SHEET TITLE:

PARTIAL LEVEL 4 — LIGHING & FIRE ALARM LAYOUT (PART A)

SHEET NUMBER:

TE-4.1A



- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR RETAINED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNUSED EXISTING LUMINAIRES TO THE REGION AND TURN OVER ALL SELECTED LUMINAIRES AT A PLACE DESIGNATED BY THE REGION. DISPOSE OF ALL LUMINAIRES REJECTED BY THE REGION.
- 4. ALL NEW/RELOCATED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE—OUT DOCUMENT SUBMITTAL PACKAGE.
- 5. REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. MI CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
- 6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE 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.
- 7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS. EQUAL TO THOMAS AND BETTS EA SERIES COMPLETE WITH BRUSHED ALUMINUM FINISH, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120—347VAC VOLTAGE INPUT UNLESS OTHERWISE NOTED. OR MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
- LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- 9. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM SPEAKER/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUIT(S). CONNECT NEW SPEAKER/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 LATEST EDITION. INCLUDE IN THE COST TO PROVIDE TWO (2) ADDITIONAL FIRE ALARM SPEAKERS AND ONE (1) ADDITIONAL AUDIBILITY VERIFICATION.
- 10. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.

  11. REWORK EXISTING SWITCHING TO ACCOMMODATE THE NEW LIGHTING LAYOUT WITHIN THE
- 12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER EXTENDERS ON ALL DIMMERS AS REQUIRED. REFER TO SPECIFICATIONS FOR DETAILS ON DIMMER RATINGS.
- 13. REUSE EXISTING CIRCUIT FOUND IN CEILING SPACE FOR ALL NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS WHERE REQUIRED. NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH THE REGION AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.
- 14. PROVIDE NEW LUMINAIRE DISCONNECTS THAT COMPLY WITH REQUIREMENTS SPECIFIED IN OESC PART 1, RULE 30-308(4) LATEST EDITION FOR ALL LIGHT FIXTURES THAT EXCEED 150V SHOWN AS NEW AND OR RELOCATED. ALL NEW AND RELOCATED FIXTURES (THAT EXCEED 150V) SHALL BE MARKED IN A CONSPICUOUS, LEGIBLE, AND PERMANENT MANNER ADJACENT TO THE DISCONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSE.

15. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER

- THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS. REFER TO DETAIL 10/E-0.3 FOR REQUIREMENTS.
- 16. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK
- 17. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- 18. ONCE THE THERMOSTAT OVERRIDE BUTTON IS PRESSED, THE LIGHTING SYSTEM IS TO ACTIVATE THE HALLWAY LIGHTING. COORDINATE LOCATION OF THERMOSTAT WITH MECHANICAL.

### DRAWING NOTES:

- N-1) ALL LIGHT FIXTURES ARE TYPE 'L1' UNLESS OTHERWISE NOTED.
- N-2 MIRROR LIGHT TO BE CONNECTED TO THE SAME CIRCUIT AS L2 FIXTURES IN THE SAME ROOM, AND CONTROLLED VIA THE LOCAL SWITCH.
- N-3 FINAL LOCATIONS OF POTLIGHTS TO BE COORDINATED ON-SITE.

### G.Bruce Stratton Architects

217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

SUBMISSION DATE

DESCRIPTION

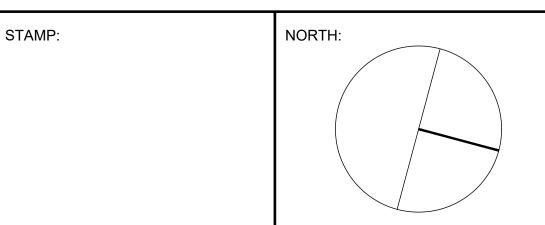
PROJECT CONTACT

NAME: AKRAM EL GANA

TEL: 416-487-8151

EMAIL: Akram.ElGana@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



ENGINEER:



PROJECT:

### YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

DRAWN BY: CH

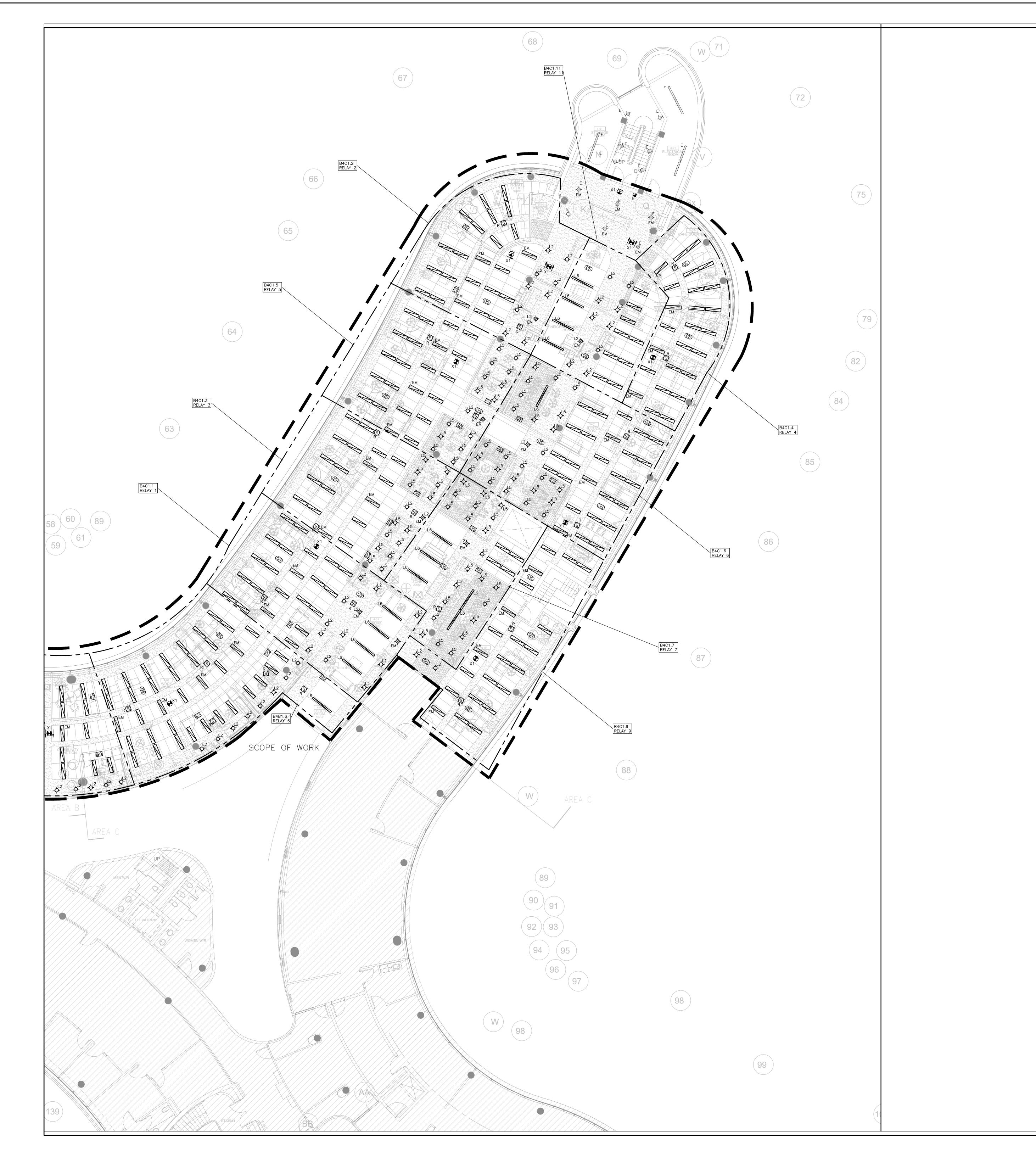
REVIEWED BY: NC

SHEET TITLE:

PARTIAL 4TH FLOOR — LIGHTING & FIRE LARM LAYOUT (PART B)

SHEET NUMBER:

TE-4.1B



- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- 2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR RETAINED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNUSED EXISTING LUMINAIRES TO THE REGION AND TURN OVER ALL SELECTED LUMINAIRES AT A PLACE DESIGNATED BY THE REGION. DISPOSE OF ALL LUMINAIRES REJECTED BY THE REGION.
- 4. ALL NEW/RELOCATED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE—OUT DOCUMENT SUBMITTAL PACKAGE.
- 5. REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2—HOUR FIRE RATED (i.e. MI CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK—ON BREAKERS TO SUIT.
- 6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE 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.

NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS

- 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.

  7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS. EQUAL TO THOMAS AND BETTS EA SERIES COMPLETE WITH BRUSHED ALUMINUM FINISH, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120—347VAC VOLTAGE INPUT UNLESS OTHERWISE NOTED. OR MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT
- UPON FINAL INSPECTION.

  8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM SPEAKER/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUIT(S). CONNECT NEW SPEAKER/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES,

PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 LATEST EDITION. INCLUDE IN THE COST TO PROVIDE TWO (2) ADDITIONAL FIRE ALARM

9. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE

- SPEAKERS AND ONE (1) ADDITIONAL AUDIBILITY VERIFICATION.

  10. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.

  11. REWORK EXISTING SWITCHING TO ACCOMMODATE THE NEW LIGHTING LAYOUT WITHIN THE
- TENANT SPACE.

  12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER EXTENDERS ON ALL DIMMERS AS REQUIRED. REFER TO SPECIFICATIONS FOR DETAILS ON DIMMER RATINGS.
- 13. REUSE EXISTING CIRCUIT FOUND IN CEILING SPACE FOR ALL NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS WHERE REQUIRED. NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH THE REGION AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.
- 14. PROVIDE NEW LUMINAIRE DISCONNECTS THAT COMPLY WITH REQUIREMENTS SPECIFIED IN OESC PART 1, RULE 30-308(4) LATEST EDITION FOR ALL LIGHT FIXTURES THAT EXCEED 150V SHOWN AS NEW AND OR RELOCATED. ALL NEW AND RELOCATED FIXTURES (THAT EXCEED 150V) SHALL BE MARKED IN A CONSPICUOUS, LEGIBLE, AND PERMANENT MANNER ADJACENT TO THE DISCONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSE.
- 15. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS. REFER TO DETAIL 10/E-0.3 FOR REQUIREMENTS.
- 16. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.
- 17. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- 18. ONCE THE THERMOSTAT OVERRIDE BUTTON IS PRESSED, THE LIGHTING SYSTEM IS TO ACTIVATE THE HALLWAY LIGHTING. COORDINATE LOCATION OF THERMOSTAT WITH MECHANICAL.

### DRAWING NOTES:

- N-1) ALL LIGHT FIXTURES ARE TYPE 'L1' UNLESS OTHERWISE NOTED.
- N-2 MIRROR LIGHT TO BE CONNECTED TO THE SAME CIRCUIT AS L2 FIXTURES IN THE SAME ROOM, AND CONTROLLED VIA THE LOCAL SWITCH.
- N=3 FINAL LOCATIONS OF POTLIGHTS TO BE COORDINATED ON-SITE.

### G.Bruce Stratton Architects

217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

DATE

SUBMISSION

DESCRIPTION

PROJECT CONTACT

IAME: .	AKRAM EL GANA	
EL:	416-487-8151	
MAIL:	Akram.ElGana@smithandandersen.com	

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

MP:	NORTH:

ENGINEER:



PROJECT:

## YORK REGION

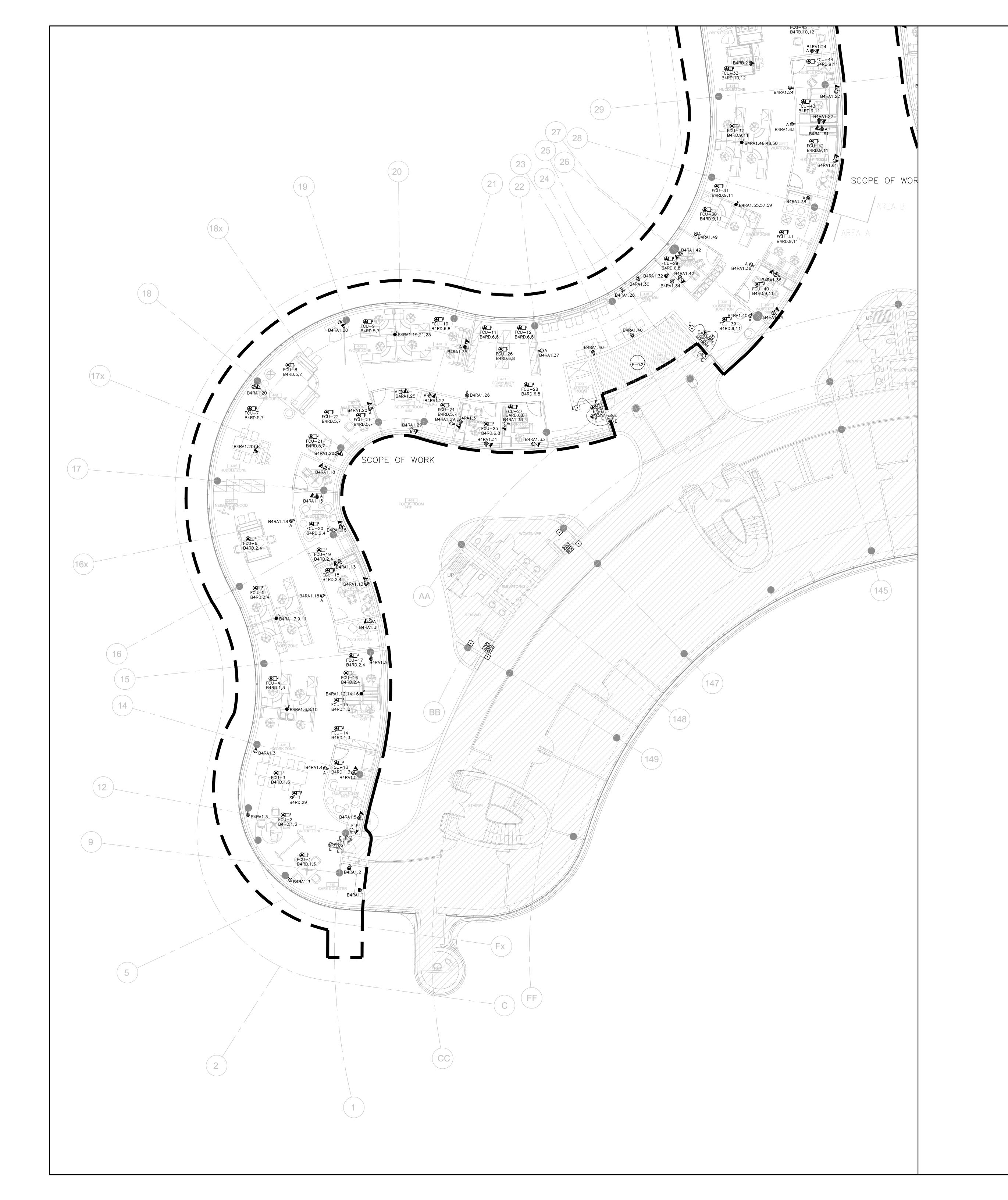
Administrative Centre 17250 Yonge Street Newmarket, Ontario

SCALE:	1:100
DRAWN BY:	СН
REVIEWED BY:	NC
SHEET TITLE:	
PARTIAL 4TH	FLOOR -

PARTIAL 4TH FLOOR — LIGHTING & FIRE LARM LAYOUT (PART C)

SHEET NUMBER:

TE-4.1C



- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- 2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS, BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
- 4. REUSE CIRCUITS OBTAINED THROUGH DEMOLITION IS ACCEPTABLE.
- CIRCUITS HAVE BEEN RE-ASSIGNED BASED ON AS BUILT DRAWINGS. VERIFY ACCURACY AND INFORM CONSULTANT OTHERWISE.
- 6. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
- 7. REFER TO ARCHITECT'S DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING 8. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT
- PRIOR TO INSTALLATION.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES, SYSTEM FURNITURE FEEDS, AND FAN COIL UNITS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION. 10. TRACE ALL EXISTING OUTLETS, NOTED AS EXISTING, AND IDENTIFY ON AS BUILT DRAWING AS
- PER SPECIFICATION. 11. ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF SYSTEMS FURNITURE CONNECTIONS.

12. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT

13. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.

WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.

#### **DRAWING NOTES:**

- THE <u>CONNECTRAC UNDER-CARPET RACEWAY SYSTEM</u> SHALL CONSIST OF TWO (2) DUPLEX RECEPTACLES, PROVISION FOR DATA AND HDMI CABLING AND OUTLETS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF CONNECTRAC FLOOR MONUMENT AND RACEWAY ROUTING WITH YORK REGION PRIOR TO INSTALLATION. (TYP.)
- N-2) MEETING ROOM TV WALL OUTLETS AT THE FLOOR LEVEL AND BEHIND THE TV SHALL BE ALIGNED VERTICALLY, COORDINATE MOUNTING HEIGHT AND LOCATION WITH YORK REGION PRIOR TO INSTALLATION. (TYP.)
- N-3 RECEPTACLES WITH 'A' ARE WHIP CONNECTION FOR ALTOS WALL
- N-4 EXISTING WIRELESS ACCESS POINT TO REMAIN. (EXISTING WAP LOCATIONS ON DRAWINGS ARE APPROXIMATE). LABEL AND MAP OUT EACH WAP EXACT LOCATION PRIOR TO REMOVAL THEN RÉMOVE AND REINSTALL WIRELESS ACCESS POINT AT THE SAME LOCATION AS REQUIRED.
- N-5 EXACT LOCATION OF RECEPTACLES TO BE DETERMINED ON SITE BY YORK REGION

### G.Bruce Stratton Architects

217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

SUBMISSION	DATE	DESCRIPTION
1	2022-03-14	ISSUED FOR 60% REVIEW
2	2022-04-27	ISSUED FOR 80% REVIEW
3	2022-05-30	ISSUED FOR 97% REVIEW
4	2022-06-13	ISSUED FOR TENDER
5	2022-08-08	ISSUED FOR PERMIT
6	2022-11-18	ISSUED FOR CONSTRUCTION

PROJECT CONTACT

NAME: AKRAM EL GANA TEL: 416-487-8151 EMAIL: Akram.ElGana@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FO THIS PROJECT.

ENGINEER:



1100 - 100 Sheppard Ave. East, Toronto On, M2N 6N5 416 487 8151 f 416 487 9104 smithandandersen.com

PROJECT:

# YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

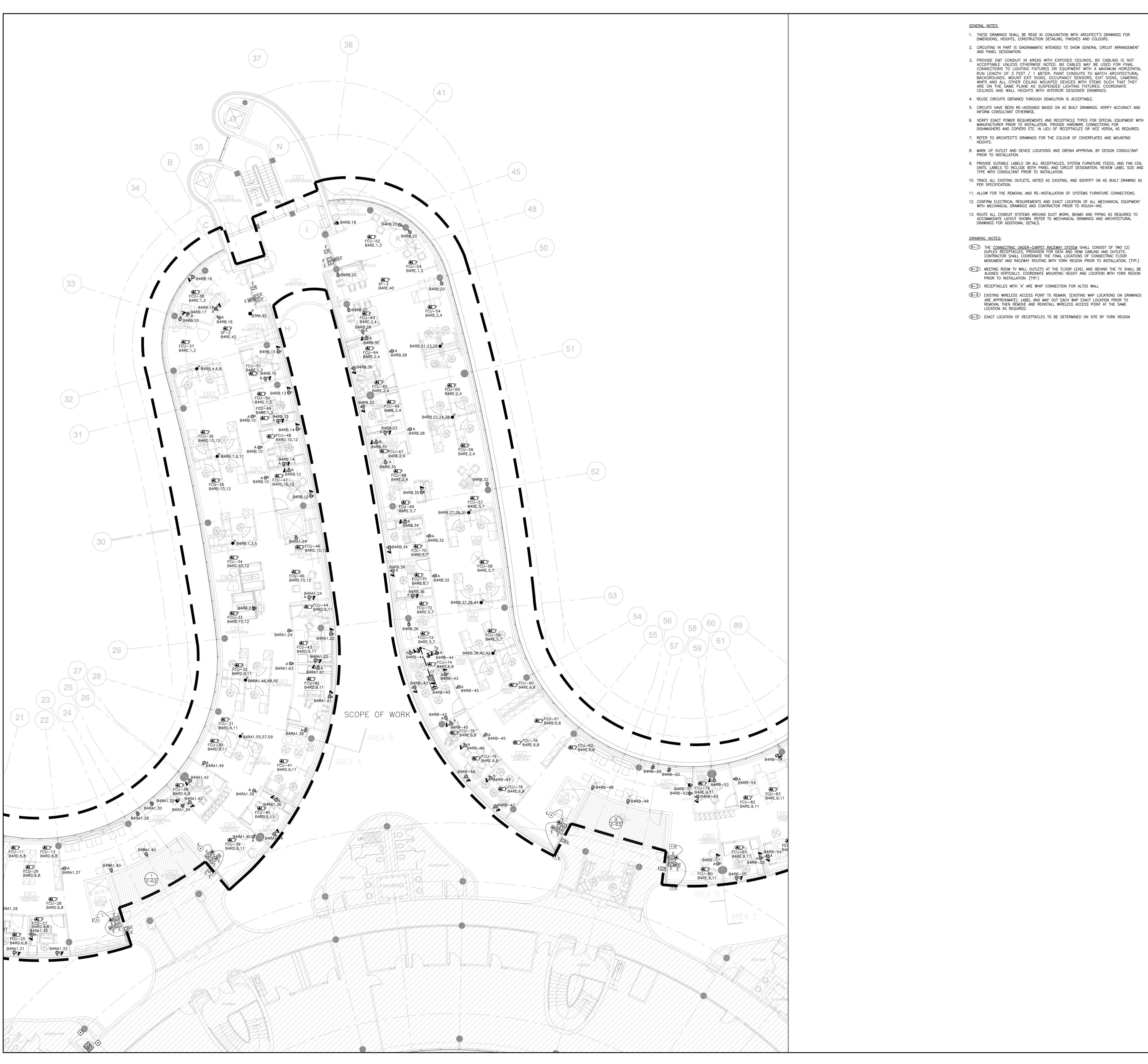
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SHEET TITLE:

PARTIAL LEVEL 4 – POWER & SYSTEMS LAYOUT (PART

SHEET NUMBER:

TE-4.2A



- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- 2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT
- 3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS, BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE
- 4. REUSE CIRCUITS OBTAINED THROUGH DEMOLITION IS ACCEPTABLE.
- CIRCUITS HAVE BEEN RE-ASSIGNED BASED ON AS BUILT DRAWINGS. VERIFY ACCURACY AND INFORM CONSULTANT OTHERWISE.
- DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.

- 11. ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF SYSTEMS FURNITURE CONNECTIONS.
- N-1 THE CONNECTRAC UNDER-CARPET RACEWAY SYSTEM SHALL CONSIST OF TWO (2)
  DUPLEX RECEPTACLES, PROVISION FOR DATA AND HDMI CABLING AND OUTLETS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF CONNECTRAC FLOOR MONUMENT AND RACEWAY ROUTING WITH YORK REGION PRIOR TO INSTALLATION. (TYP.)
- N-2 MEETING ROOM TV WALL OUTLETS AT THE FLOOR LEVEL AND BEHIND THE TV SHALL BE ALIGNED VERTICALLY, COORDINATE MOUNTING HEIGHT AND LOCATION WITH YORK REGION
- N-3 RECEPTACLES WITH 'A' ARE WHIP CONNECTION FOR ALTOS WALL

- N-5 EXACT LOCATION OF RECEPTACLES TO BE DETERMINED ON SITE BY YORK REGION

### PROJECT CONTACT

NAME: AKRAM EL GANA

G.Bruce Stratton Architects

DESCRIPTION

217 Richmond Street West, Suite 300

Toronto Ontario M5V 1W2

telephone: 416.351.8145

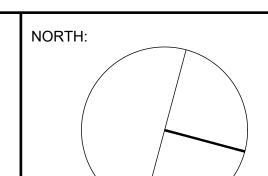
facsimile: 416.351.8146

SUBMISSION DATE

TEL: 416-487-8151

EMAIL: Akram.ElGana@smithandandersen.com

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ENGINEER:



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PROJECT:

# YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

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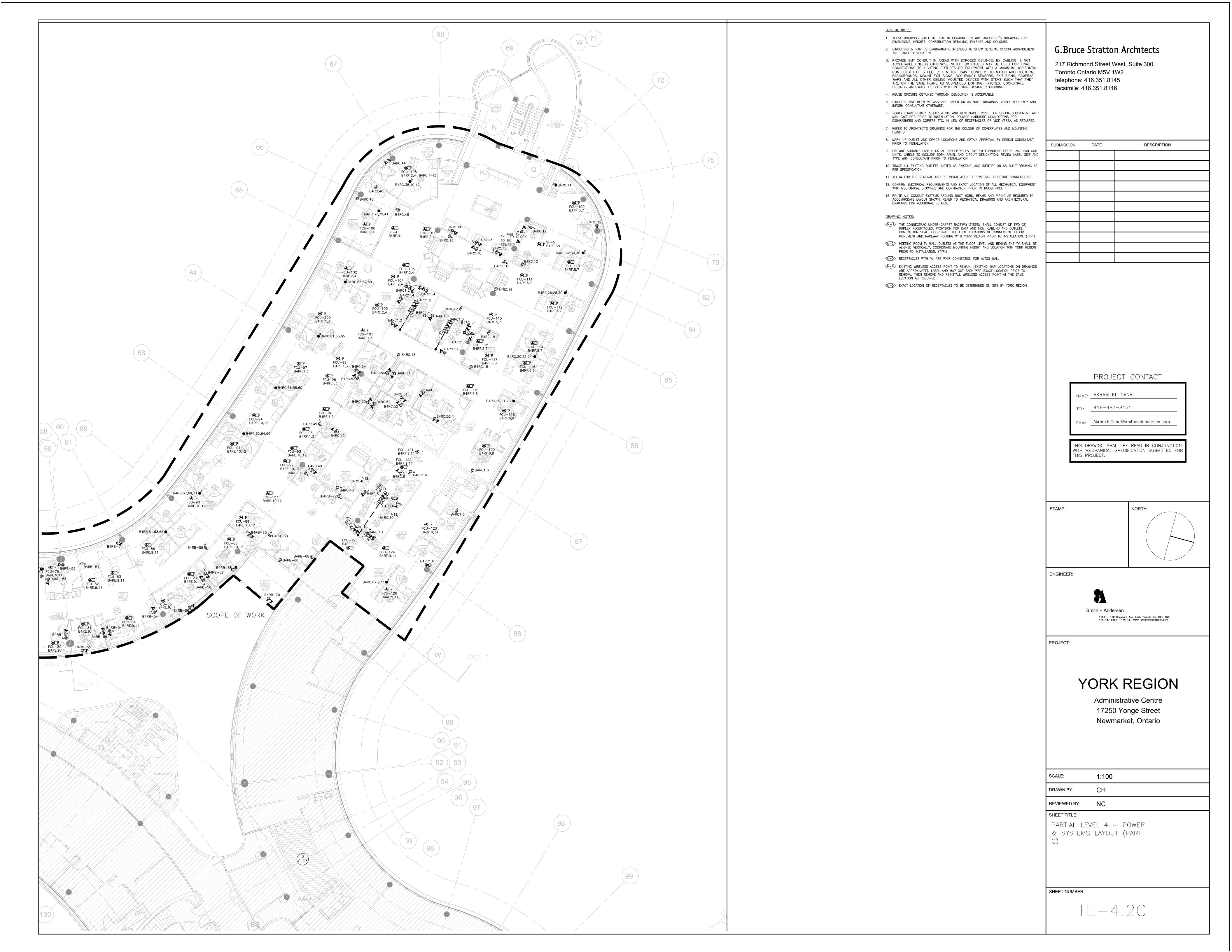
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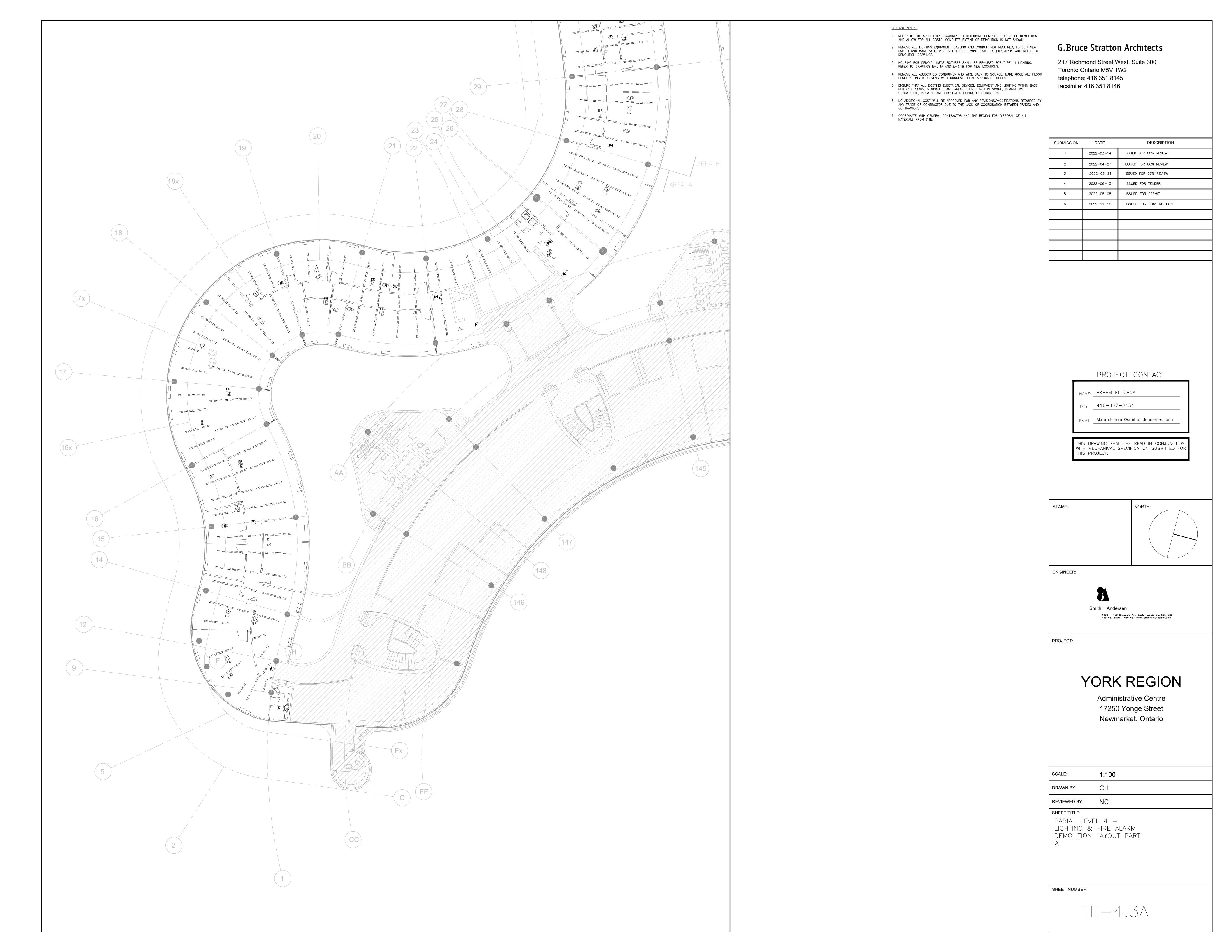
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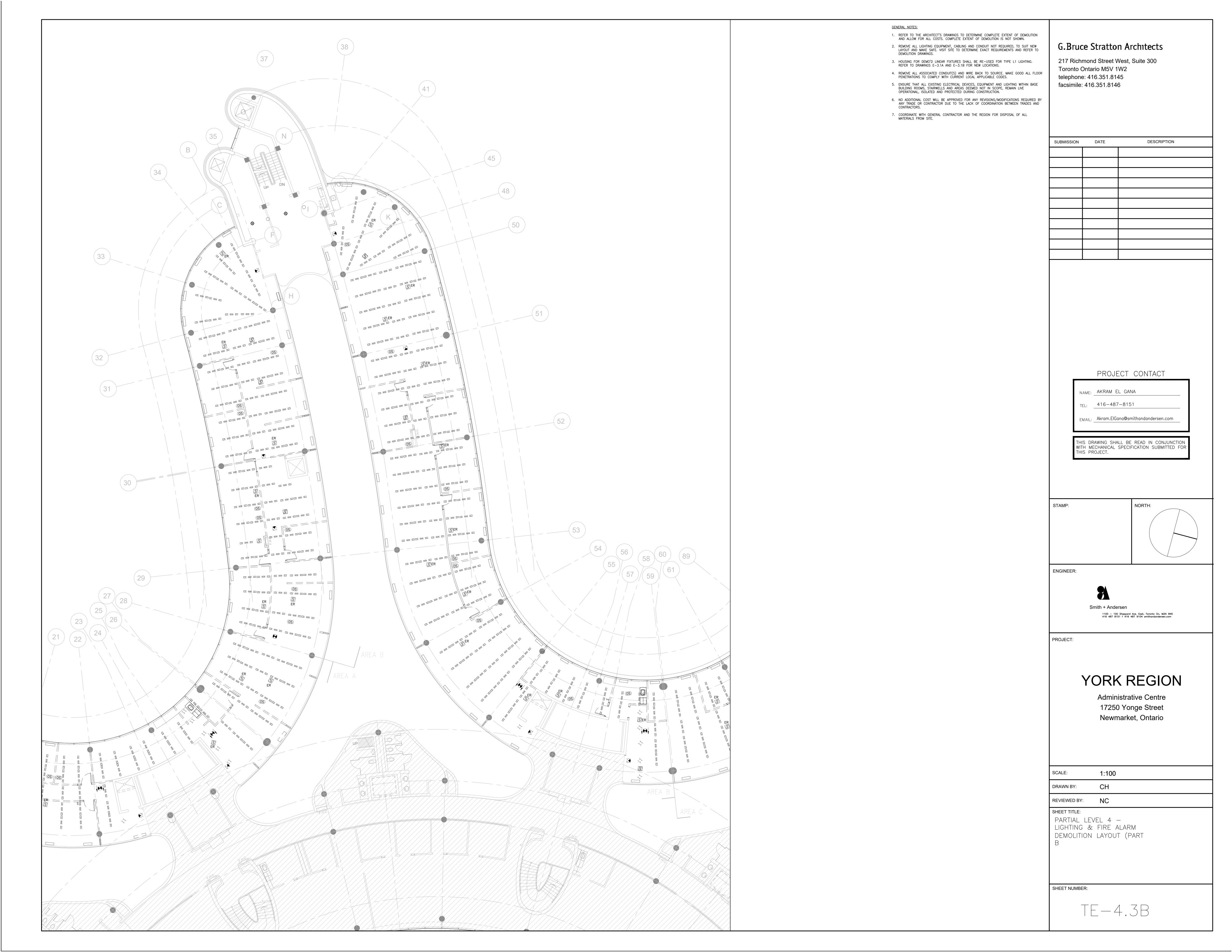
PARTIAL LEVEL 4 – POWER & SYSTEMS LAYOUT (PART

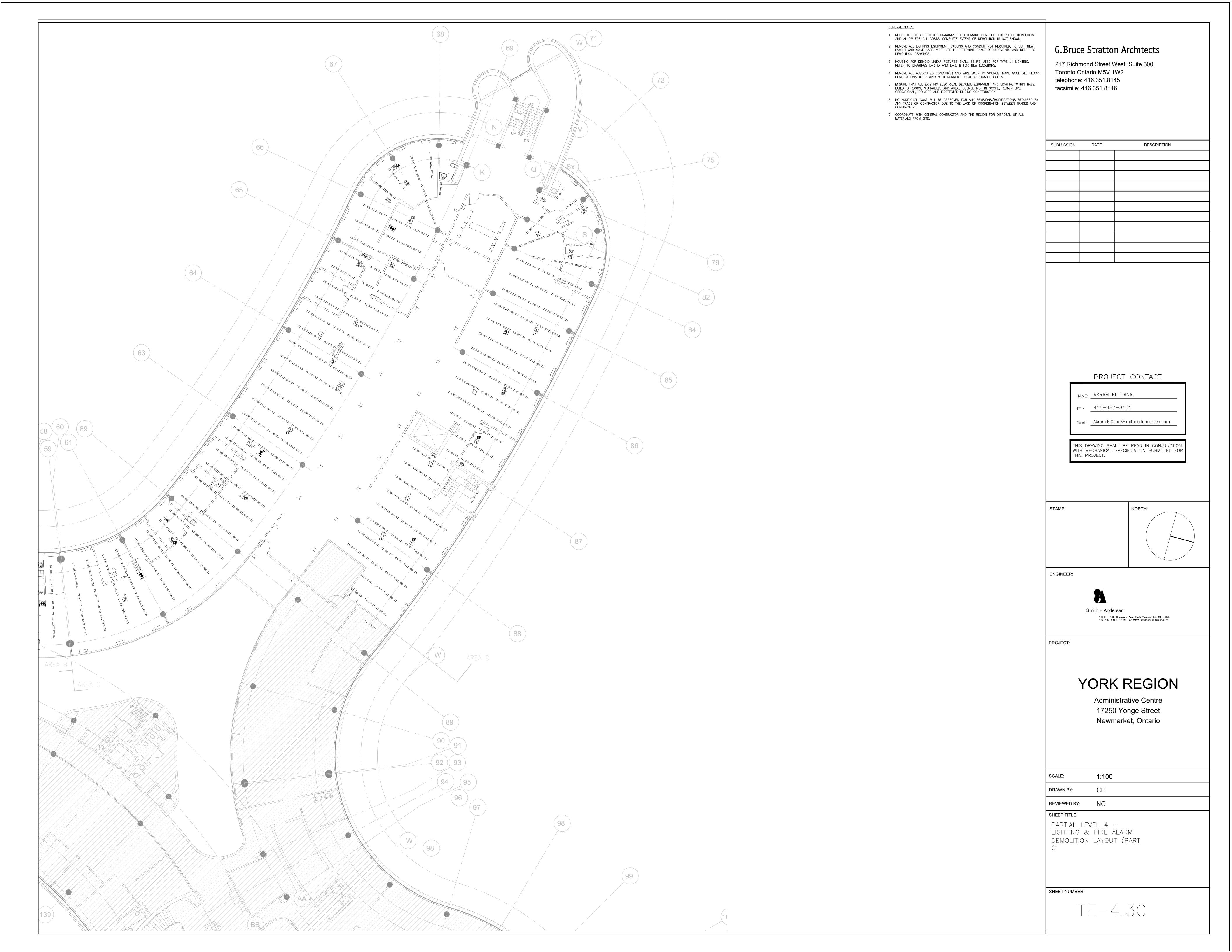
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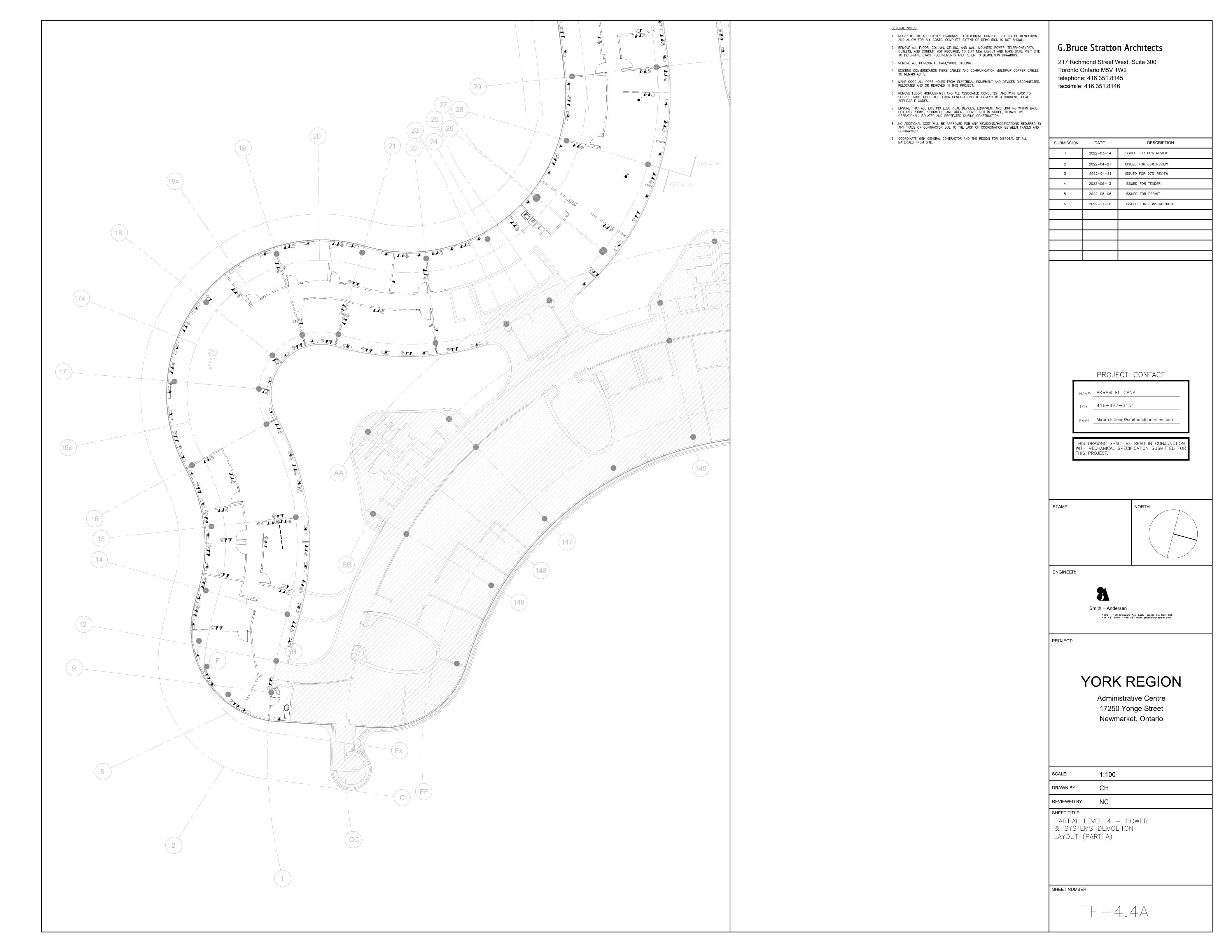
TE-4.2B

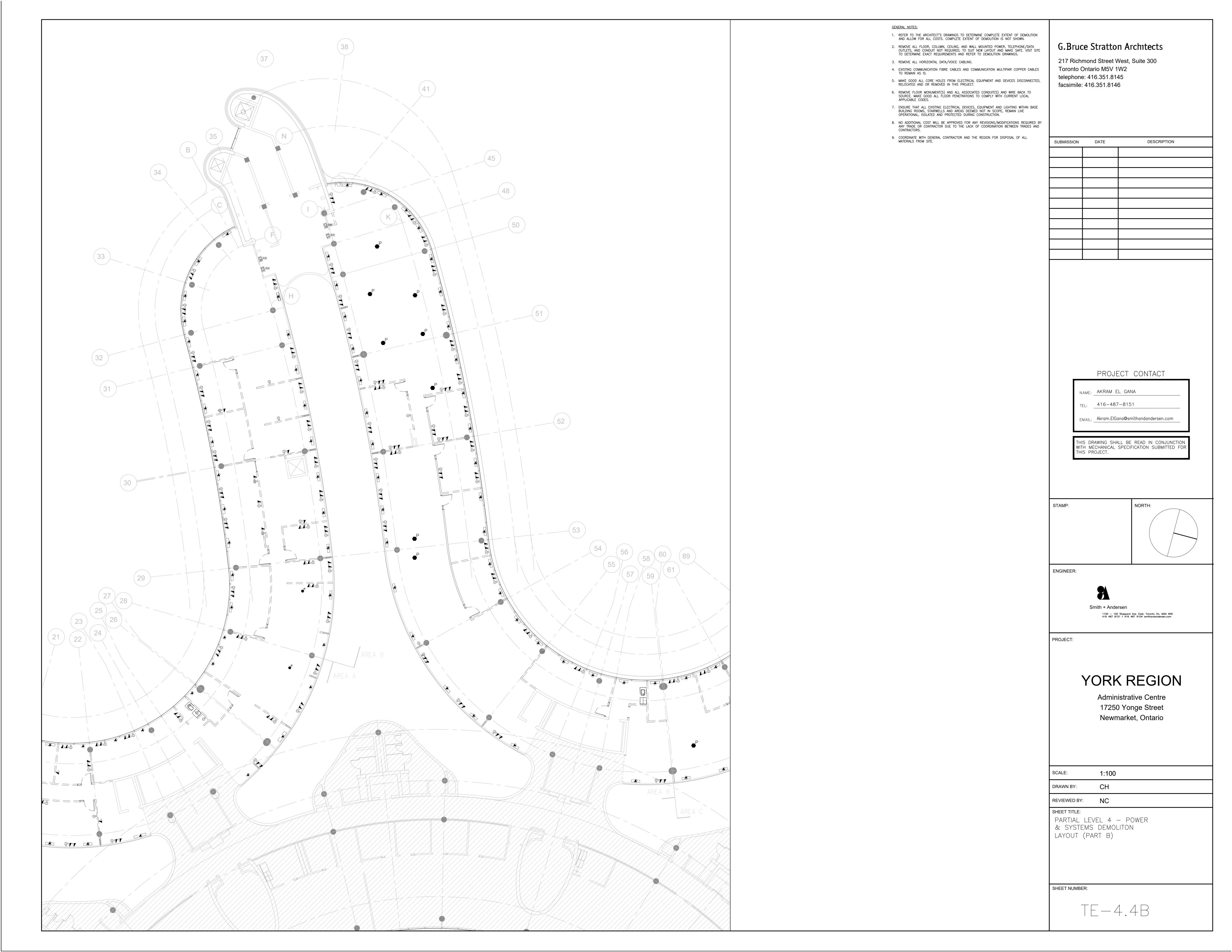


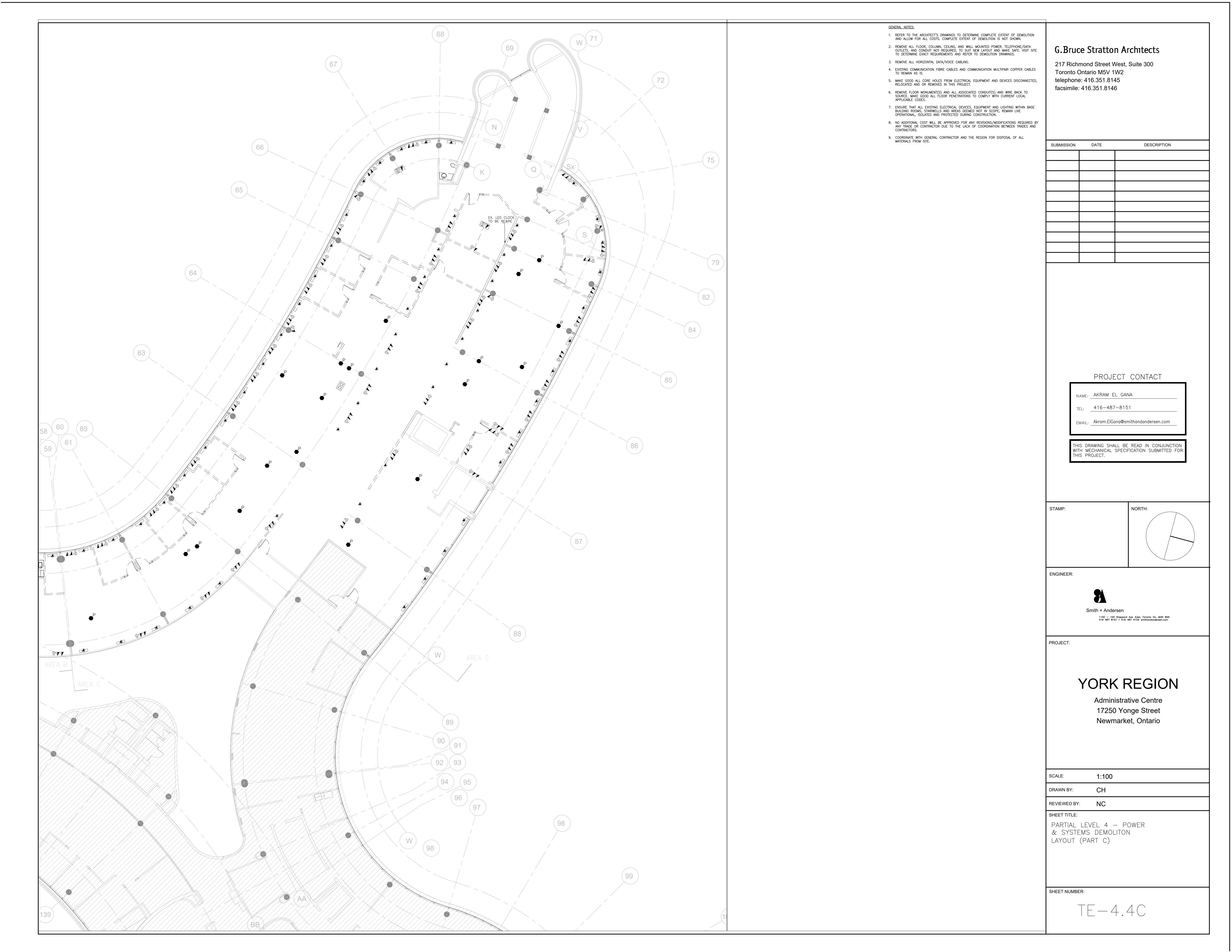


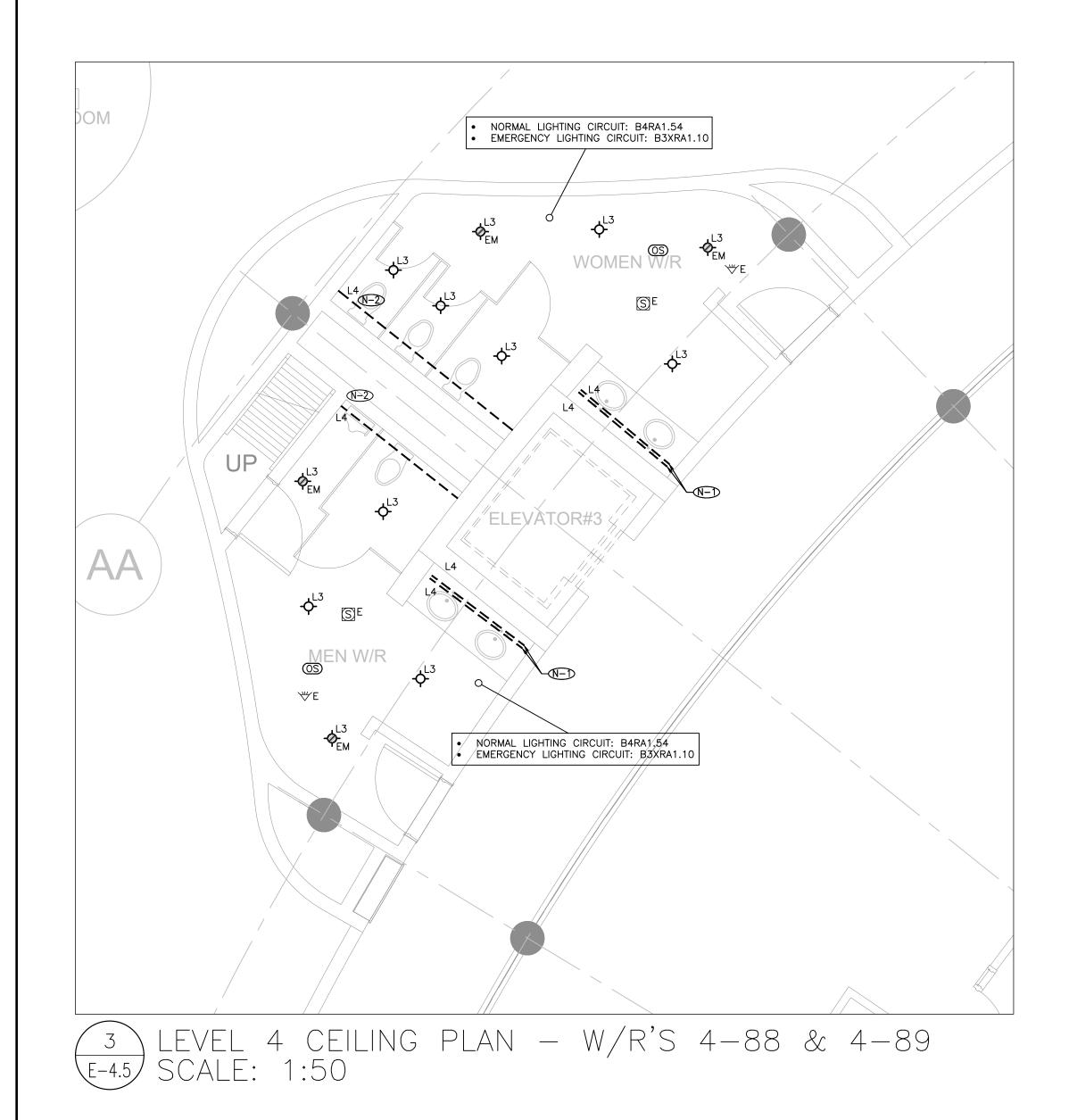


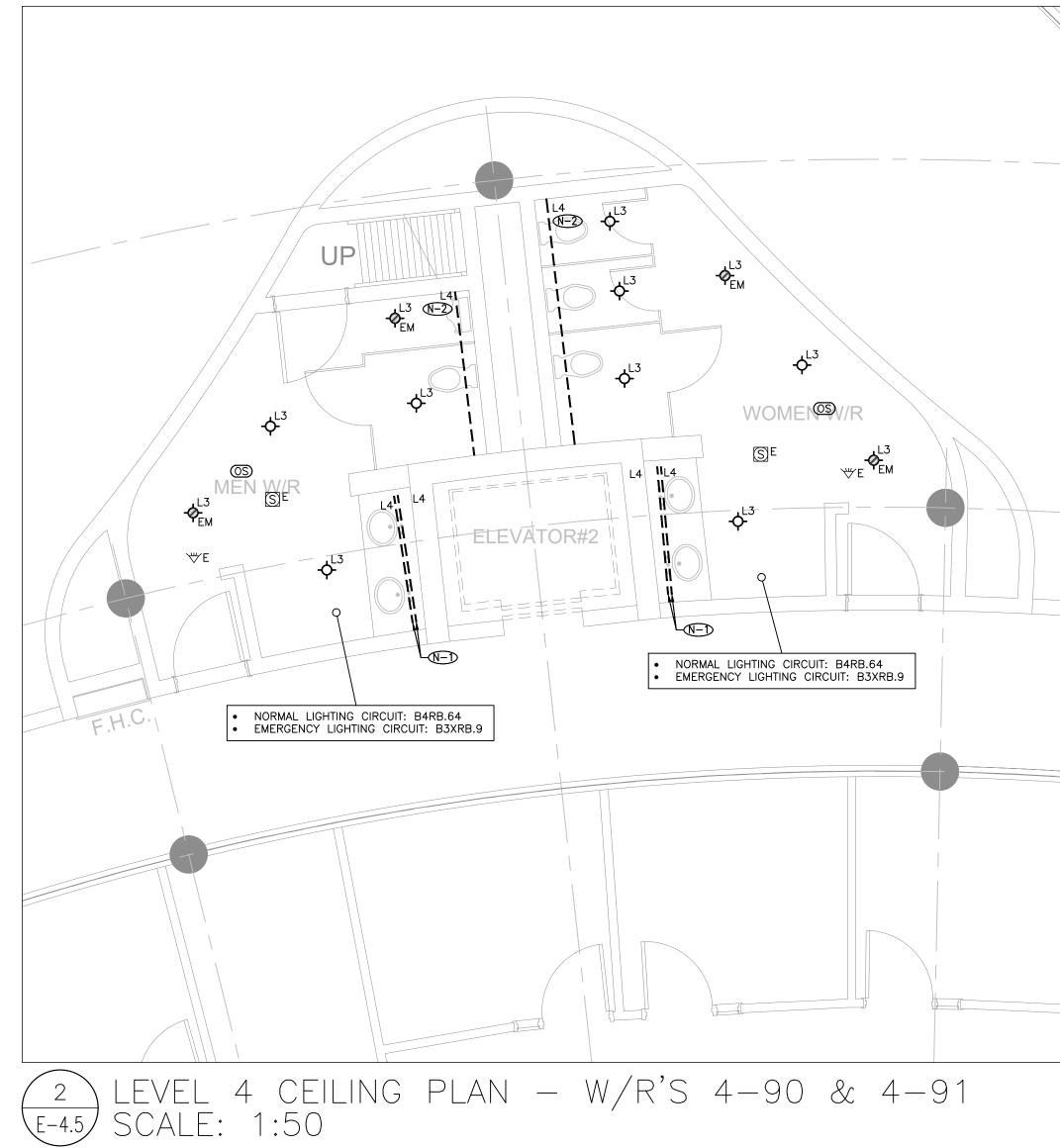


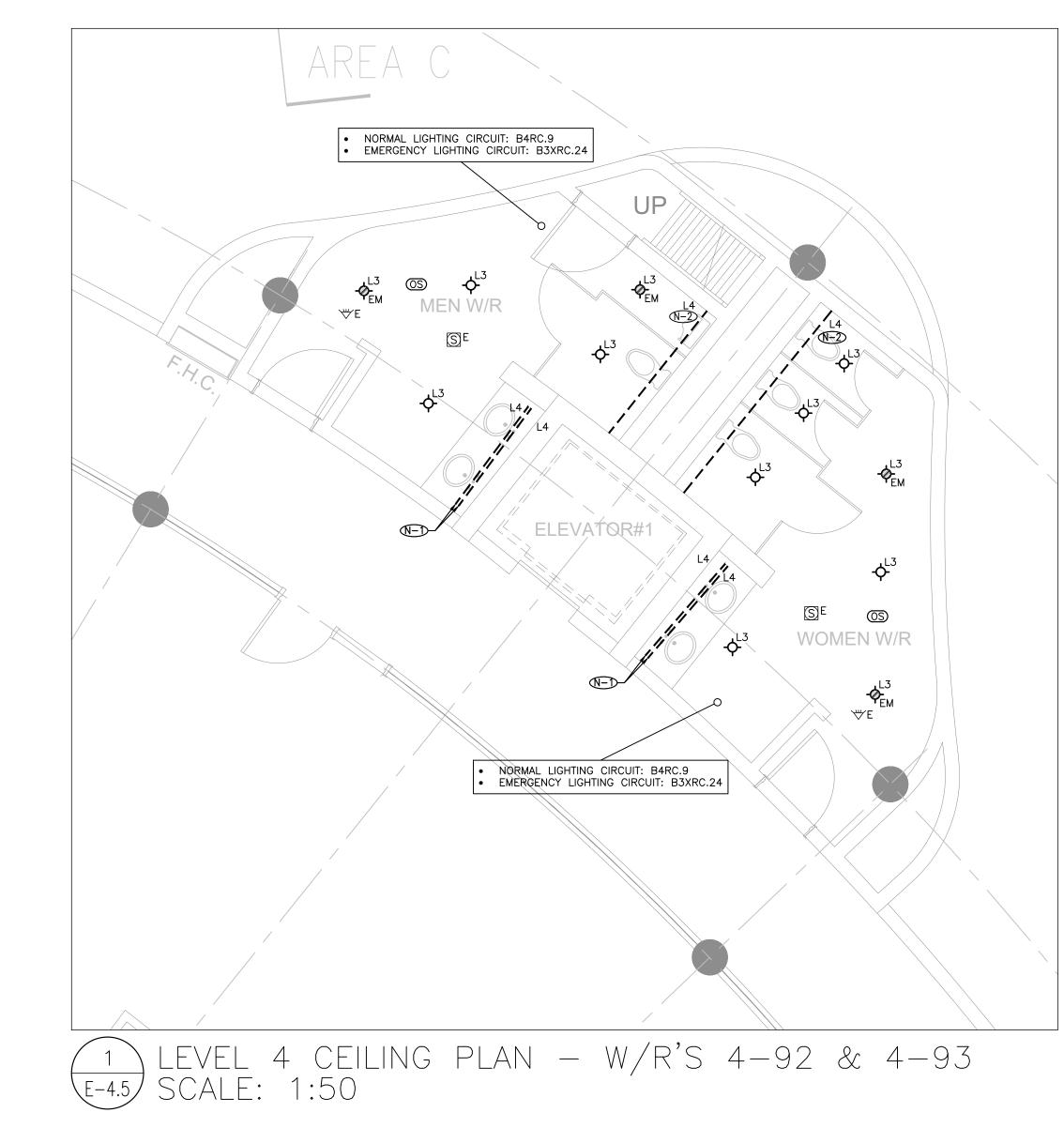












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- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. RE-USE CIRCUITS OBTAINED THROUGH DEMOLITION.
- 4. ALL NEW LED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE—OUT DOCUMENT SUBMITTAL PACKAGE.
- 5. REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. MI CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
- 6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE 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.
- 7. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM SPEAKER/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUIT(S). CONNECT NEW SPEAKER/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO; ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC—S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC—S524 LATEST EDITION. INCLUDE IN THE COST TO PROVIDE TWO (2) ADDITIONAL FIRE
- ALARM SPEAKERS AND ONE (1) ADDITIONAL AUDIBILITY VERIFICATION.

  8. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT
- 9. REUSE EXISTING CIRCUIT FOUND IN CEILING SPACE FOR ALL NEW LIGHTING FIXTURES UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS WHERE REQUIRED. NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH THE REGION AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS
- 10. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK
- 11. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

### DRAWING NOTES:

COMMENCING.

- AND ONE (1) SECTION TO RUN BELOW AND BEHIND MIRROR FOR ACCENT LIGHTING. (TYP.)

  N-2 PROVIDE ONE (1) 250VA, 347V-120V, 1¢ STEP DOWN TRANSFORMER INSTALLED IN THE CEILING SPACE FOR ALL THE TYPE 'L3' LED STRIP LIGHT (COVE AND MIRROR) 120V REMOTE DRIVER IN EACH WASHROOM. COORDINATE EXACT TRANSFORMER MOUNTING
- N-3 RE-USE CIRCUITS OBTAINED THROUGH DEMOLITION WHERE POSSIBLE. CIRCUITING SHOWN ON THE PLAN ARE FOR REFERENCE ONLY. INCLUDE IN THE COST TO UTILIZE TWIN BREAKERS WHERE NECESSARY DUE TO LIMITED BRANCH SPACE AVAILABLE ON THE EXISTING PANEL.

N-) ONE (1) SECTION OF TYPE 'L3' LED COVE LIGHT TO RUN ABOVE AND BEHIND THE MIRROR,

### G.Bruce Stratton Architects

217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

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2	2022-05-31	ISSUED FOR 97% REVIEW
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4	2022-08-08	ISSUED FOR PERMIT
5	2022-11-18	ISSUED FOR CONSTRUCTION

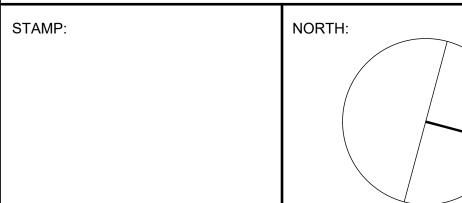
### PROJECT CONTACT

NAME: AKRAM EL GANA

TEL: 416-487-8151

EMAIL: Akram.ElGana@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MECHANICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



ENGINEER:



PROJECT:

# YORK REGION

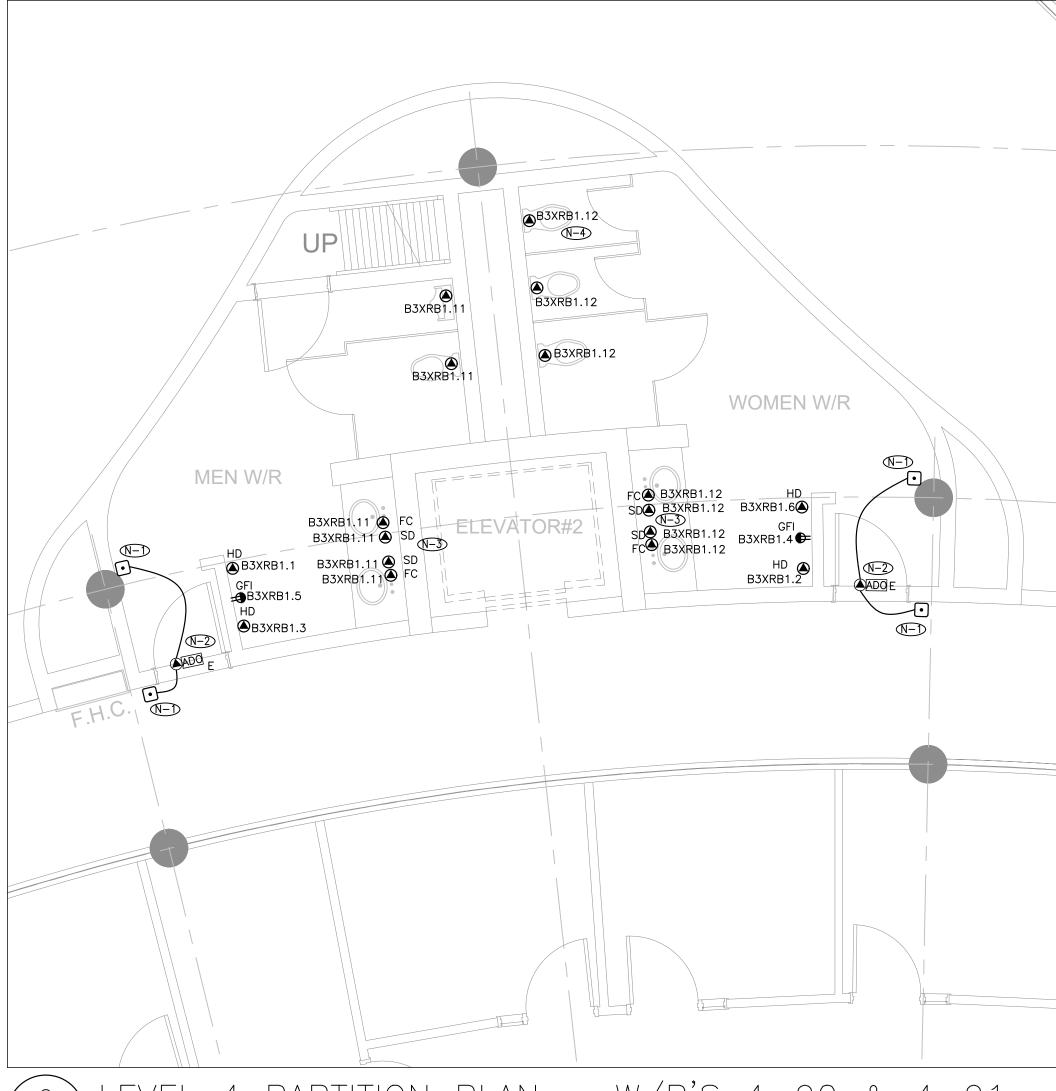
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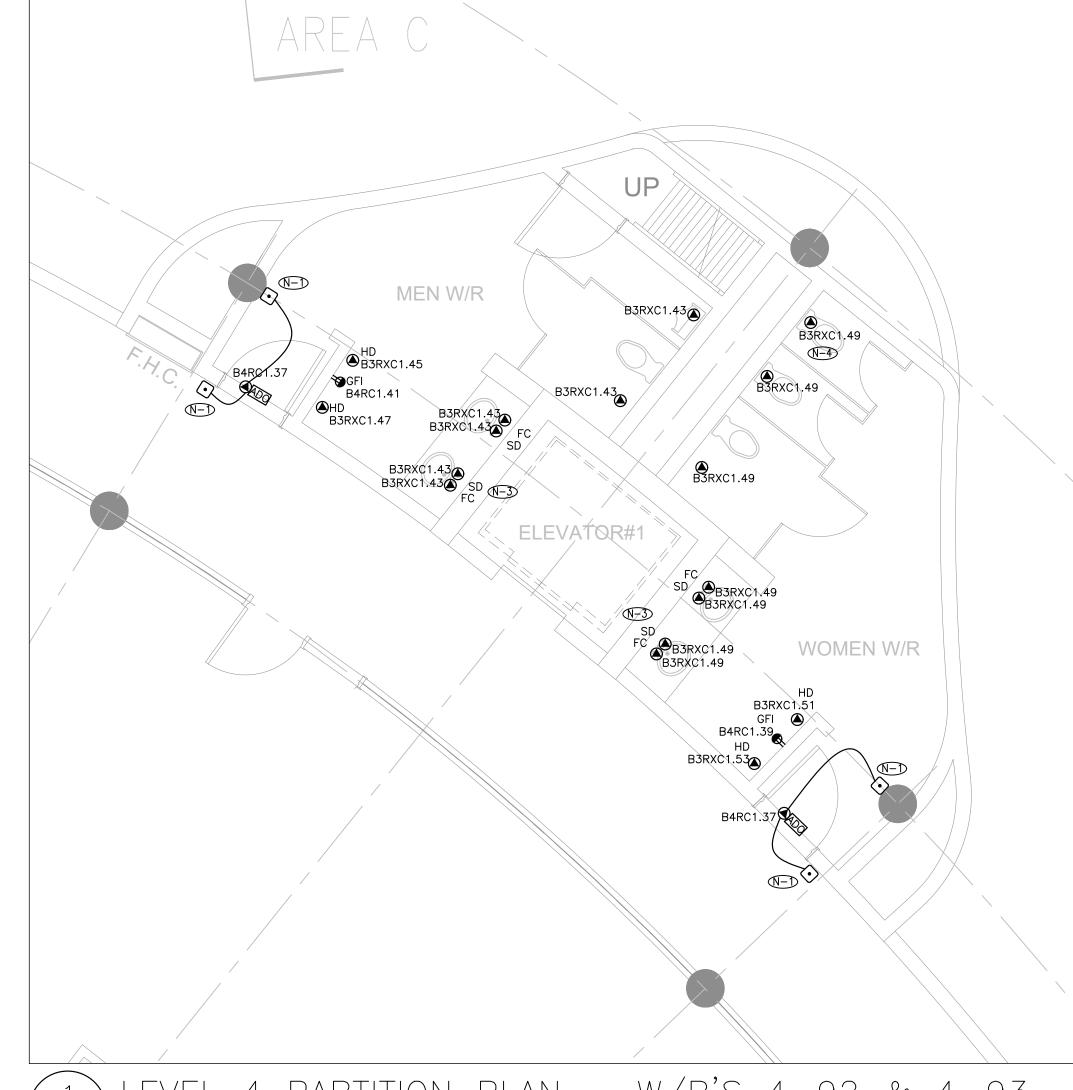
### SHEET TITLE:

4TH FLOOR WASHROOM LIGHTING & FIRE ALARM LAYOUT

SHEET NUMBER:







- 1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- 2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- 3. REUSE CIRCUITS OBTAINED THROUGH DEMOLITION IS ACCEPTABLE.
- 4. REFER TO ARCHITECT'S DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING
- 5. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
- 7. TRACE ALL EXISTING OUTLETS, NOTED AS EXISTING, AND IDENTIFY ON AS BUILT DRAWING AS PER SPECIFICATION.
- 8. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
- 9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- 10. PROVIDE FIRE STOPPING AS REQUIRED. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT. COORDINATE ROUTING AND TERMINATION POINTS OF ALL CONDUITS WITH GENERAL
- **DRAWING NOTES:** N-D PROVIDE NEW CAMDEN #CM-330/40W TOUCHLESS AUTOMATIC DOOR OPERATOR FOR WASHROOM INTERIOR. PROVIDE NEW CAMDEN #CM-45/4 PUSH BUTTON AUTOMATIC DOOR OPERATOR FOR WASHROOM EXTERIOR. COORDINATE INSTALLATION WITH THE DRYWALL
- CONTRACTOR ON SITE. (TYP.) RECONNECT NEW TOUCHLESS AUTOMATIC DOOR OPERATOR TO THE EXISTING AUTOMATIC DOOR OPERATOR TO ENSURE FULL FUNCTIONALITY.
- N=3 VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR AUTOMATIC WATER FAUCET 'FC', SOAP DISPENSER 'SD', AND HAND DRYER 'HD', ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED. N-4 PROVIDE TANDEM BREAKERS FOR CIRCUITS SHOWN AS A/B. (TYP.)

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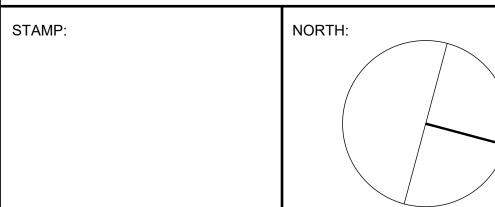
217 Richmond Street West, Suite 300 Toronto Ontario M5V 1W2 telephone: 416.351.8145 facsimile: 416.351.8146

SUBMISSION	DATE	DESCRIPTION
1	2022-04-27	ISSUED FOR 80% REVIEW
2	2022-05-31	ISSUED FOR 97% REVIEW
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5	2022-11-18	ISSUED FOR CONSTRUCTION

### PROJECT CONTACT



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ENGINEER:



PROJECT:

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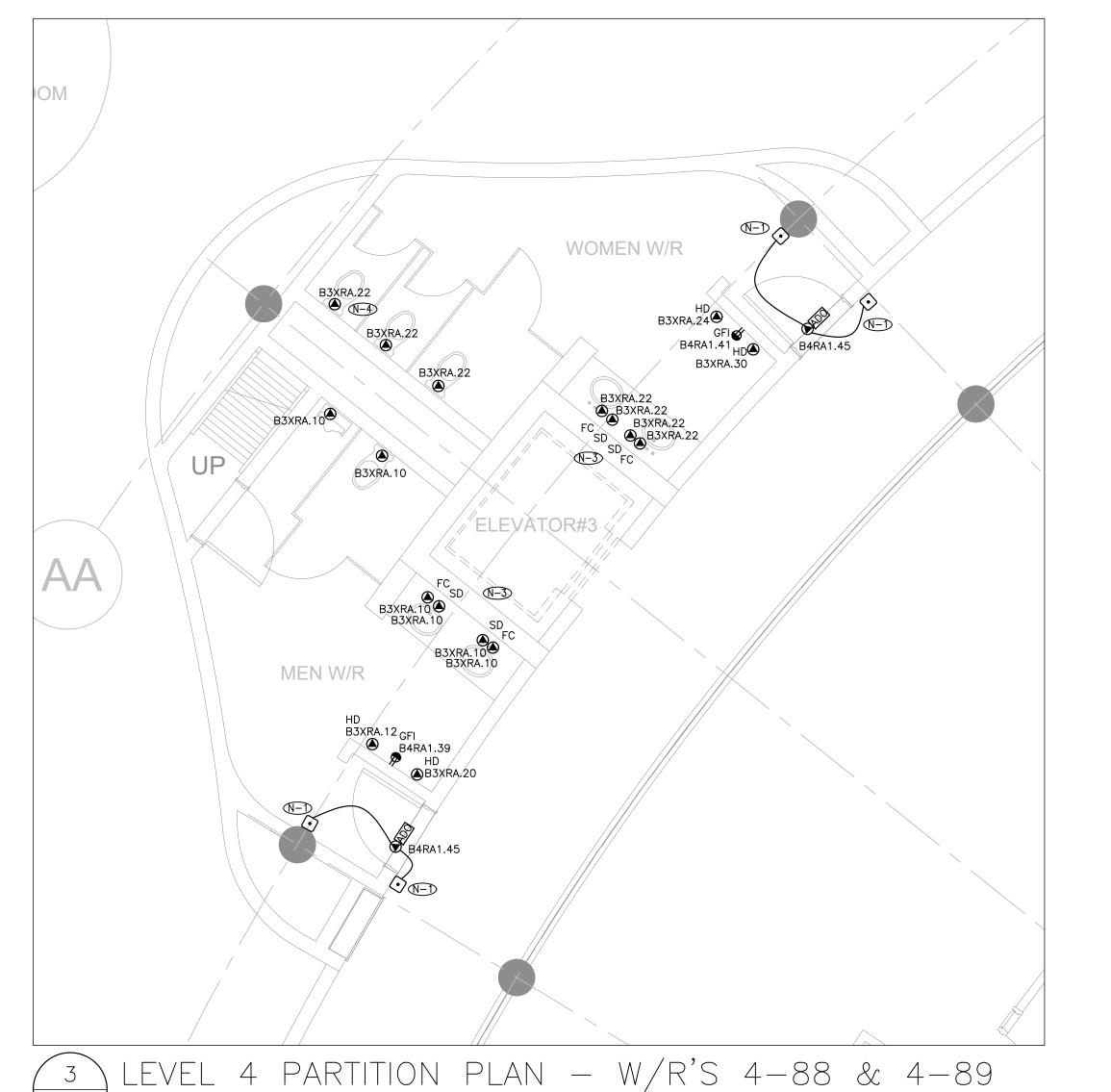
Administrative Centre 17250 Yonge Street Newmarket, Ontario

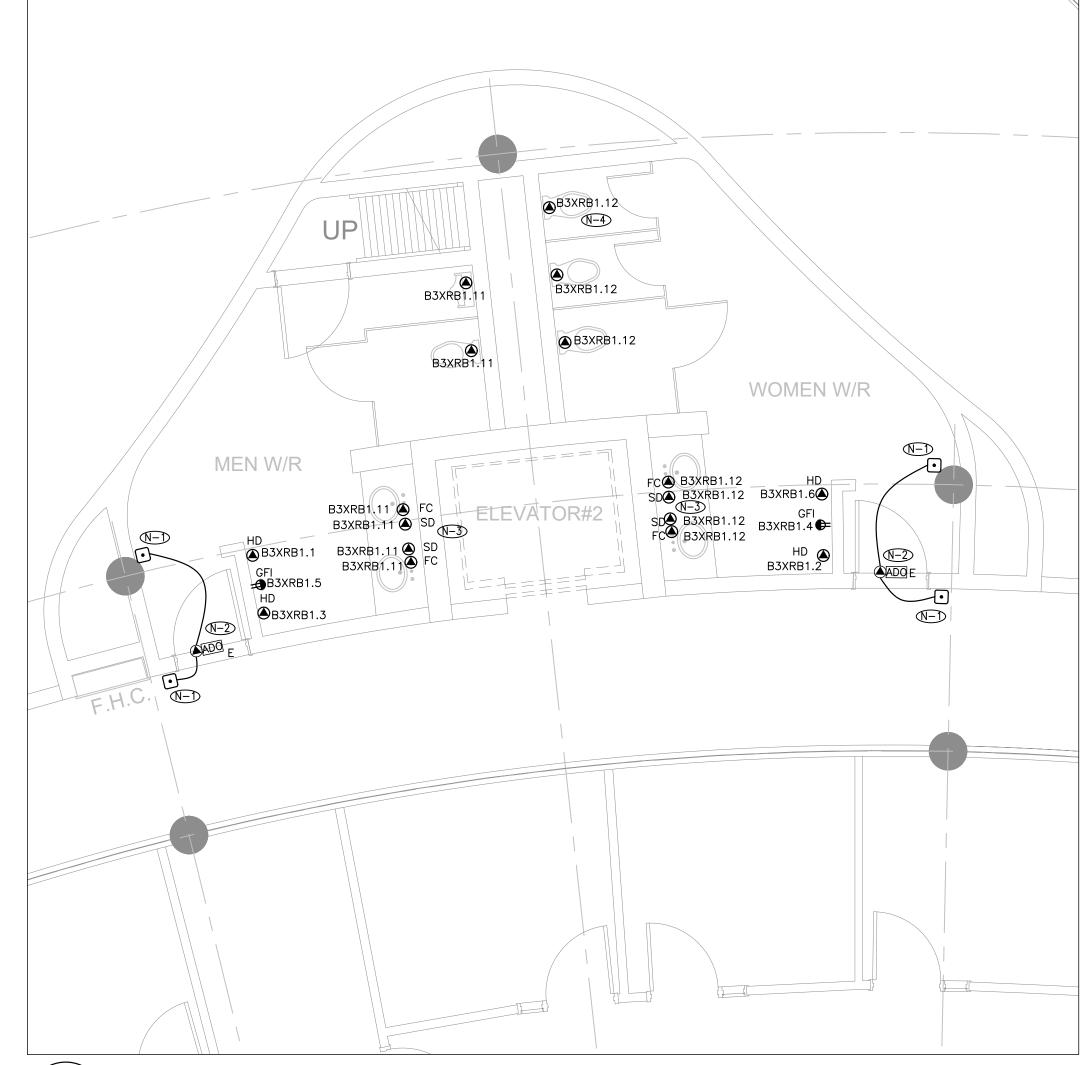
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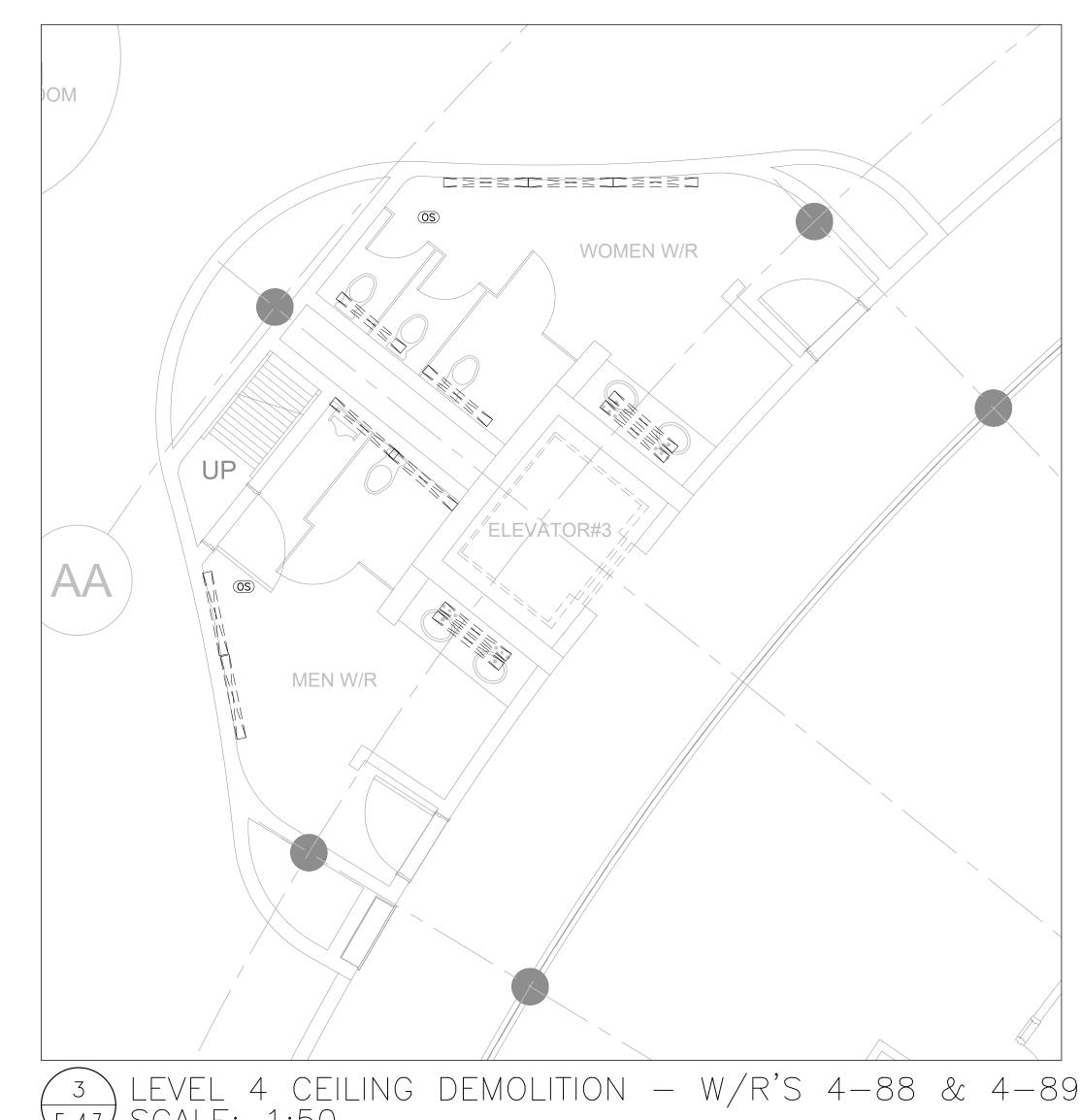
4TH FLOOR WASHROOMS POWER & SYSTEMS LAYOUT

SHEET NUMBER:

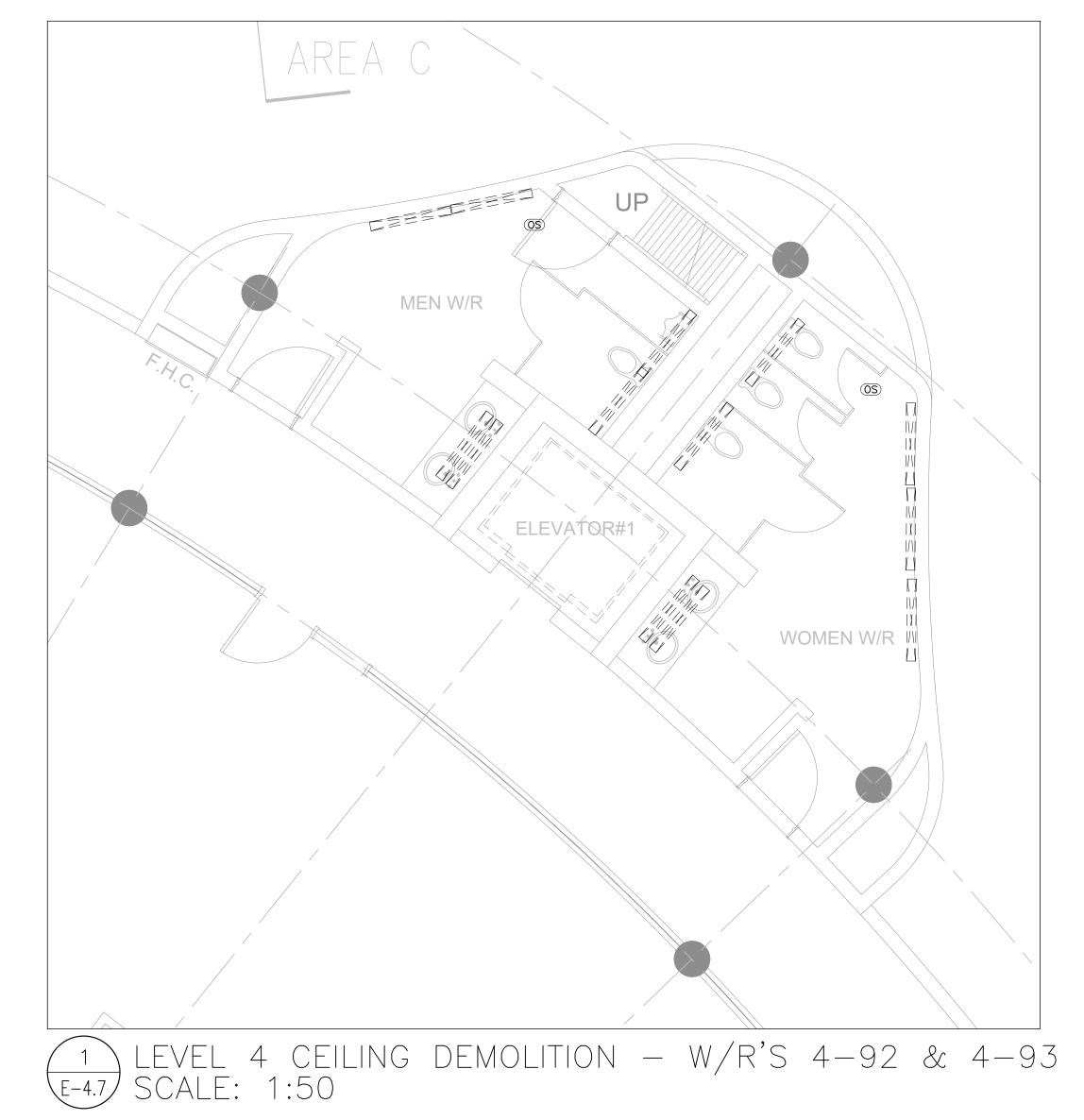












- REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
- REMOVE ALL LIGHTING EQUIPMENT, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
- 3. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
- 4. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.

5. COORDINATE WITH GENERAL CONTRACTOR AND THE REGION FOR DISPOSAL OF ALL MATERIALS FROM SITE.

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PROJECT CONTACT

NAME: AKRAM EL GANA TEL: 416-487-8151 EMAIL: Akram.ElGana@smithandandersen.com

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STAMP:

ENGINEER:

Smith + Andersen 1100 — 100 Sheppard Ave. East, Toronto On, M2N 6N5 416 487 8151 f 416 487 9104 smithandandersen.com

PROJECT:

# YORK REGION

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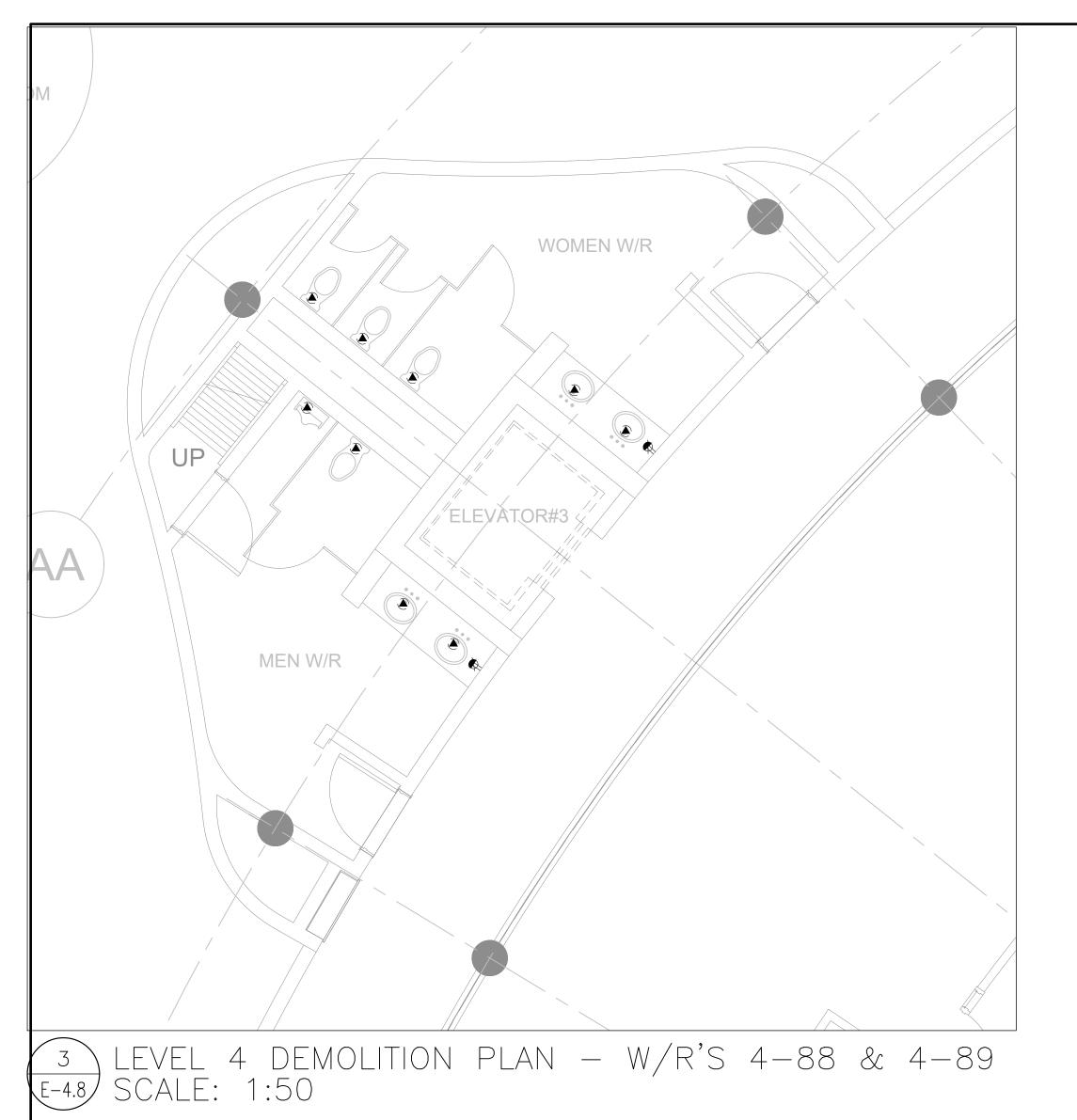
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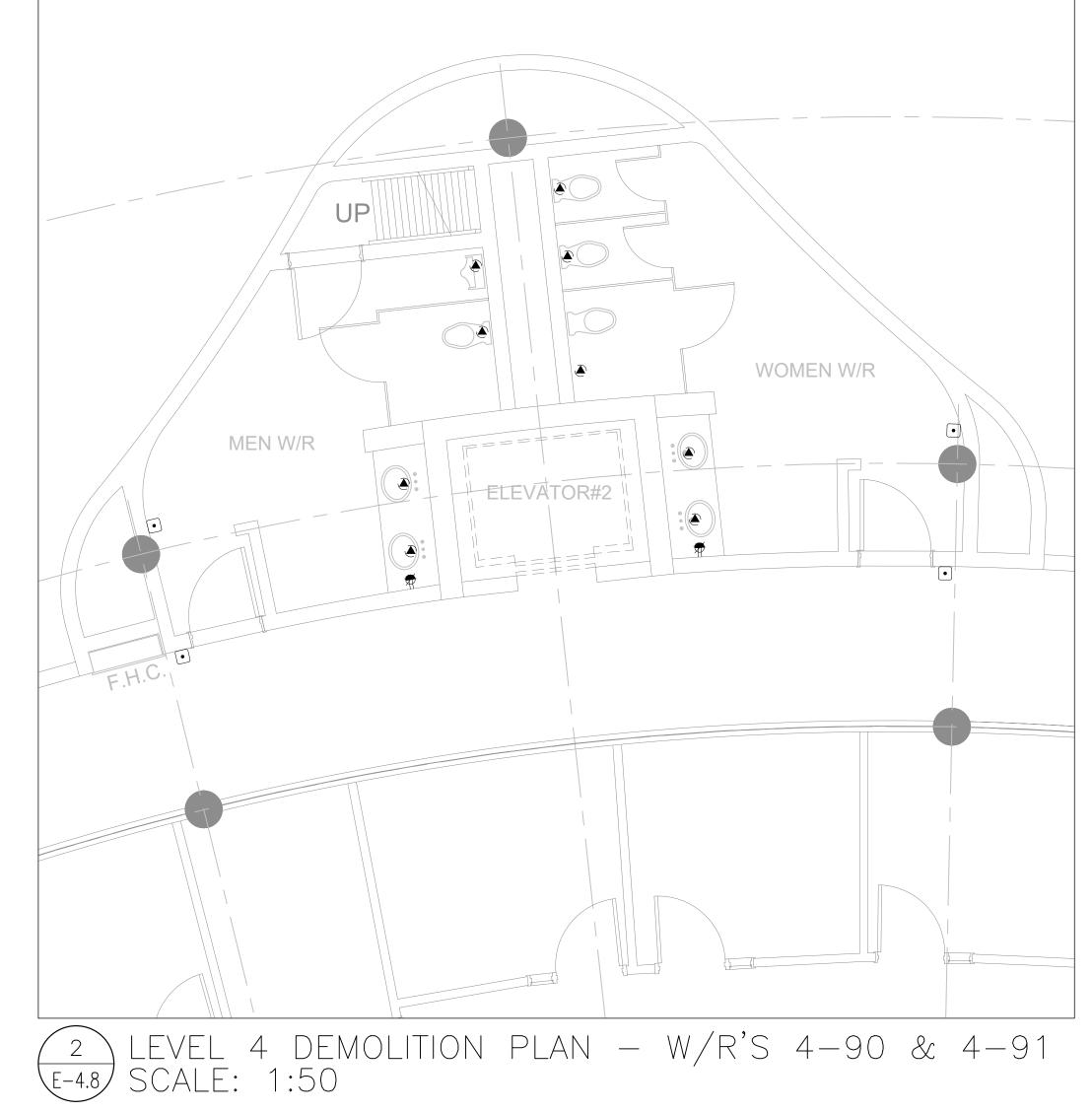
4TH FLOOR WASHROOMS LIGHTING & FIRE ALARM DEMOLITION LAYOUT

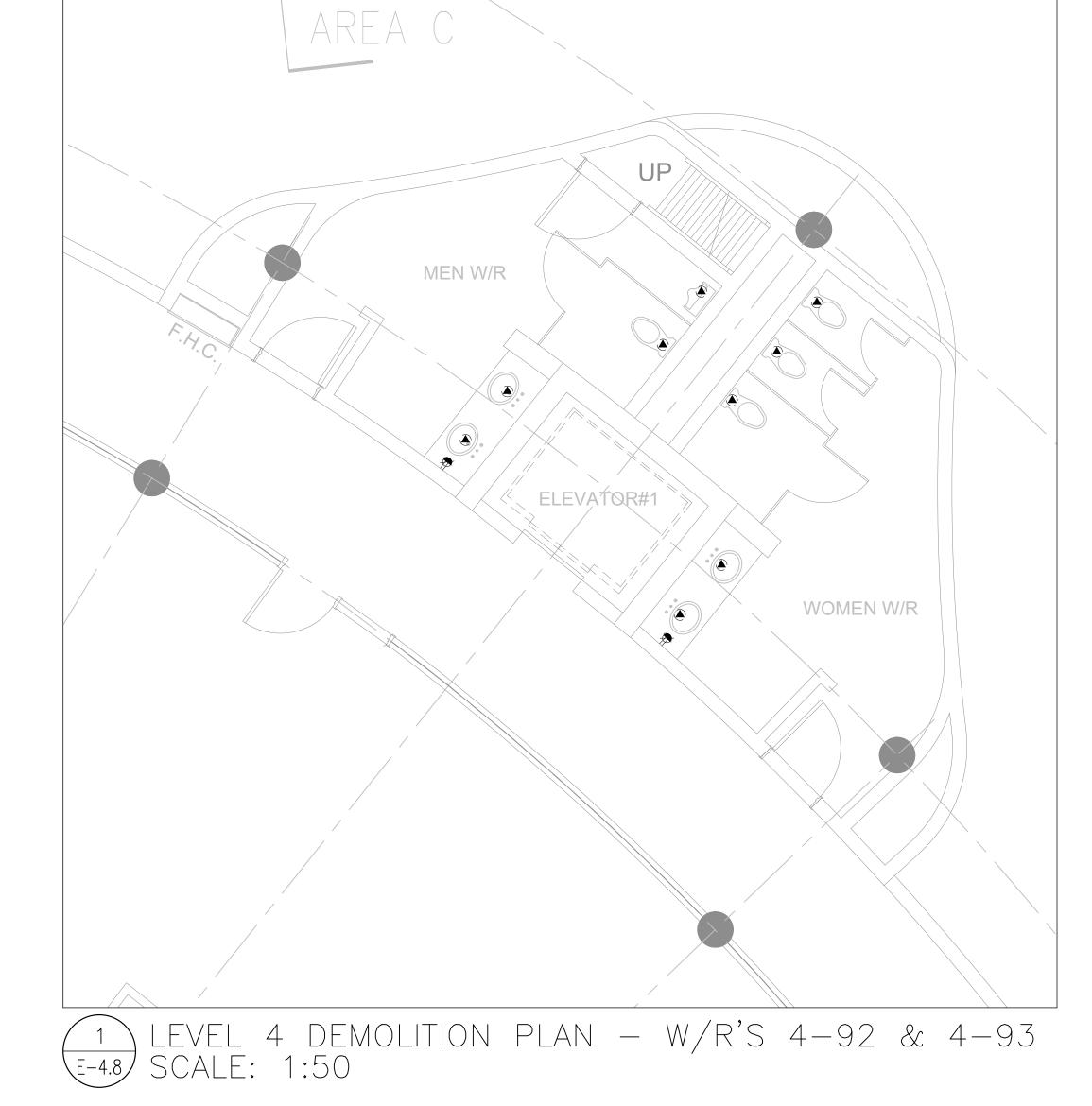
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- REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
- REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
- ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
   NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
- 5. COORDINATE WITH GENERAL CONTRACTOR AND THE REGION FOR DISPOSAL OF ALL MATERIALS FROM SITE.

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ENGINEER:



PROJECT:

# YORK REGION

Administrative Centre 17250 Yonge Street Newmarket, Ontario

SCALE:	1:50
DRAWN BY:	CH
REVIEWED BY:	NC

SHEET TITLE:

4TH WASHROOMS POWER & SYSTEMS DEMOLITION LAYOUT

SHEET NUMBER: