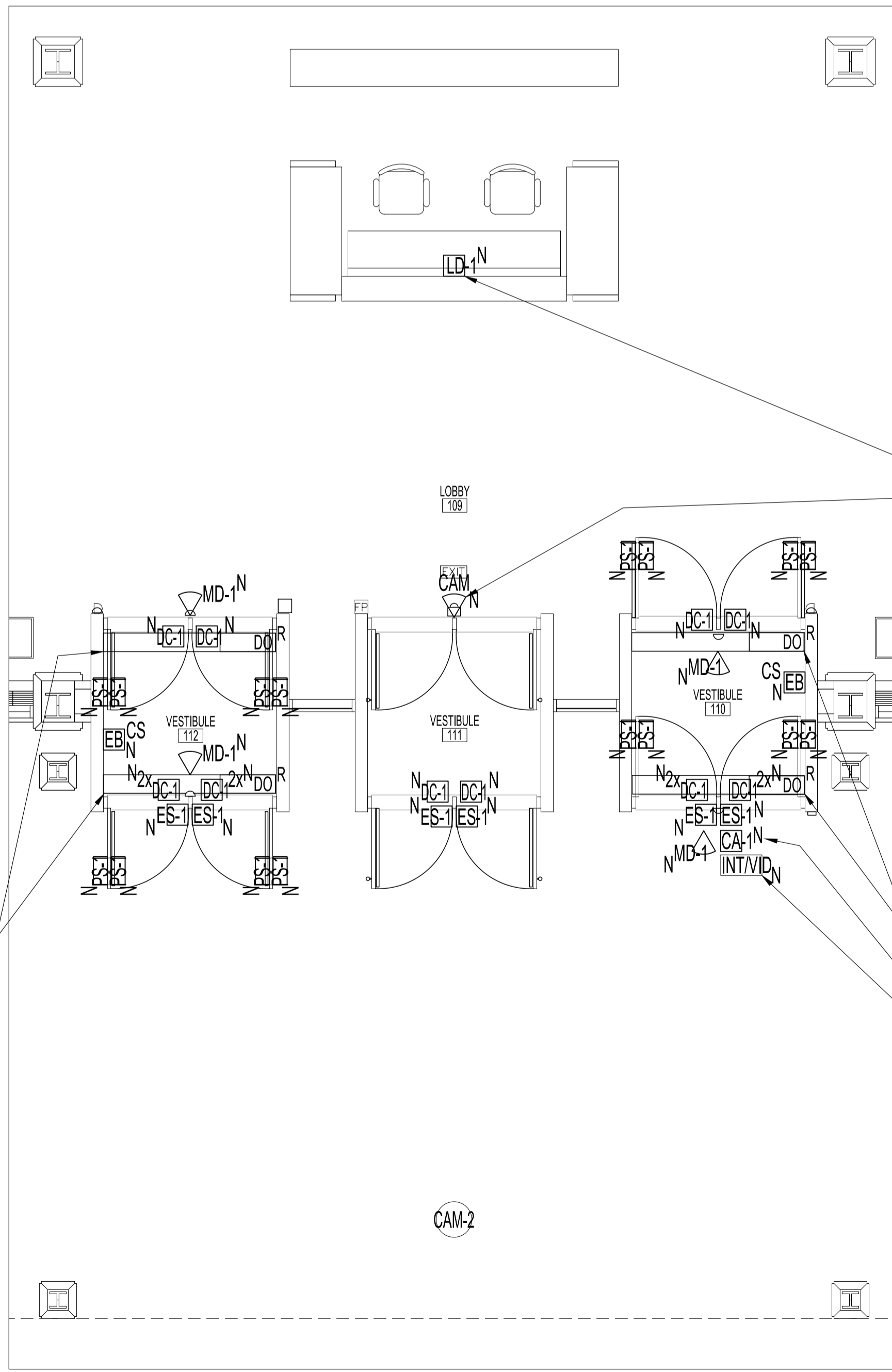


MAIN FLOOR PLAN - ADMIN DEMO
SCALE: 1/16"=1'-0"



MAIN FLOOR PLAN - ADMIN RENO
SCALE: 1/16"=1'-0"

POWER AND SYSTEMS DEMOLITION NOTES: "X"

ALSO SEE NOTES & SPECIFICATIONS.
REFER TO APPLICABLE RENOVATION DRAWING FOR RELOCATED COMPONENTS.
ALL ABANDONED CABLES TO BE REMOVED AS REQUIRED BY LATEST CANADIAN ELECTRICAL CODE.
DO NOT DISTURB OR DISCONNECT ANY WIRING & CABLING IN AREA OF WORK REQUIRED FOR OTHER AREAS.

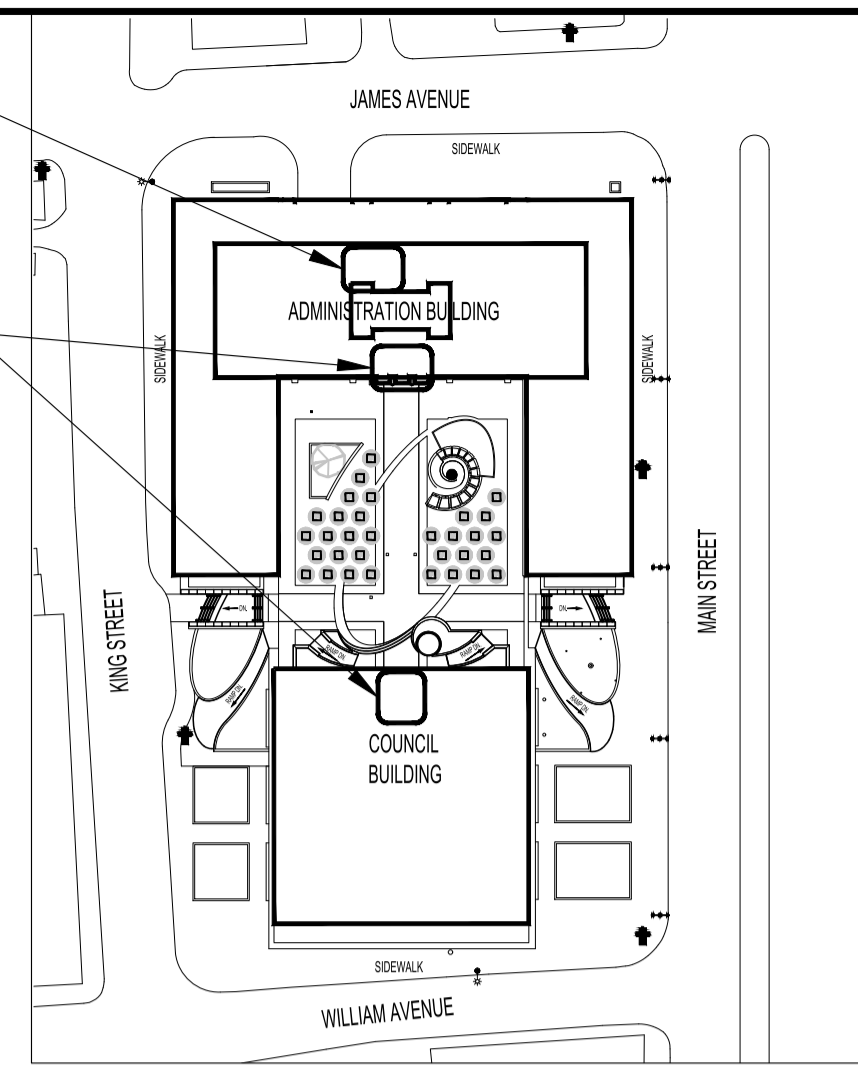
- REMOVE ALL EXISTING DOOR MOUNTED ELECTRICAL DEVICES/WIRING BACK TO SOURCE. RETURN DEVICES TO THE CITY FOR SPARE PARTS.
- ALL EXISTING DOOR OPERATORS (DO) TO BE REUSED, RECONNECTED TO EXISTING CIRCUIT & RECONFIGURED TO WORK WITH NEW CARD ACCESS SYSTEM & LOCK-DOWN. SEE RENOVATION NOTES.

ELECTRICAL POWER & SYSTEMS RENOVATION NOTES: "X"

ALSO SEE NOTES & SPECIFICATIONS.
ALL WIRING & CABLING SHALL BE CONCEALED IN DOOR/TRANSOM FRAMES &/OR IN WALL CAVITY FOR FINISH SPACE (EG. OFFICES, CORRIDORS...). ALL HOLES DRILLED IN STONE WALLS MUST BE DRILLED THROUGH MORTAR NOT STONE. ALL NEW WIRING & CABLING IN CEILING SPACE SHALL BE IN EMT AS PER LATEST CEC. PROGRAMMING OF CONTROLLERS NETWORK IPS & CARD ACCESS SERVER BY CITY OF WINNIPEG - FST SECTION. SUPPLY & PROGRAMMING OF KEY CARDS BY THE CITY. COMMISSION CARD ACCESS SYSTEM TO FULLY OPERATE.

- DOOR OPERATOR (DO)
 - REINSTALL ALL (4) DOOR OPERATORS (DO) WITH EXISTING BRANCH CIRCUITS & RECONFIGURE WIRING/ CONTROLS TO OPERATE WITH NEW CARD ACCESS & LOCKDOWN SYSTEM. PROVIDE CAMDEN DOOR INTERFACE RELAY CX-12 PLUS TO ELIMINATE BINDING OF LOCKED EXTERIOR DOORS, BY DELAYING EXTERIOR (DO) UNTIL (ES-1) DEACTIVATES FIRST.
 - THE (2) INTERIOR (DO) SHALL NOT BE CONNECTED TO THE NEW LOCKDOWN SYSTEM.
 - PROVIDE (MD-1) FOR EACH (DO). LOCATION TBD.
 - LABEL ALL (DO) WITH BRANCH CIRCUIT & DOOR DESIGNATION.
 - PROVIDE PRESENCE SENSORS (PS-1) & INSTALL ON THE TOP RAIL ON BOTH SIDES OF THE DOOR LEAF AS CLOSE AS POSSIBLE TO THE CLOSING LEAF, 3/4". THE (PS-1) TRANSMITTER SHALL BE PLACED NEXT TO THE DOOR EDGE. TURN THE (PS) MODULE IF NECESSARY. WIRE ONE (PS-1) MODULE TO THE THE DOOR CONTROLLER AS MASTER & PLUG-IN SLAVE CABLE BETWEEN BOTH (PS-1) MODULES FOR INTENDED DOOR SWING ACT. EACH (PS) HAS TWO RELAYS; SET TO FUNCTION. CALIBRATE EACH (PS-1) & PERFORM DOOR SAFETY CHECK. PROVIDE S1ST POWER TRANSFER LOOPS.
 - PROVIDE EXTRA (DC-1) FOR EACH EXTERIOR (DO) TO FUNCTION WITH EXISTING INTRUSION SYSTEM. INSTALL IN FACTORY PREP 1" DIA. TOP DOOR FRAME OPENINGS.
 - CARD ACCESS
 - NOTE: COUNCIL BUILDING FRONT DOORS ARE CONTROLLED BY EXISTING CONTROLLER (010-510MAIN COUNCIL EAST C860) & SHALL BE USED FOR NEW CARD ACCESS.
 - PROVIDE (ES-1) & (DC-1), AS SHOWN. MOUNT (ES-1) ONTO VERTICAL DOOR FRAME WITH (ES-1) & (DC-1) WIRING CONCEALED IN DOOR FRAMES, CEILING SPACES & WALL CAVITIES. IF SURFACE-MOUNTED WIRING IS REQUIRED, USE LEGRAND RACEWAY COMPONENTS/COLOUR TO BLEND IN & MINIMUM PATHWAY OPTIC. MAXIMUM LATCH PROJECTION ON RIM EXIT DEVICE IS ESSENTIAL TO OBTAINING FULL HOLDING FORCE ON (ES-1).
 - PROVIDE (CA-1) AS SHOWN. MOUNT AT DOOR LATCH CENTERLINE HEIGHT ON LATCH SIDE OF DOOR FRAME OR AS SHOWN.
 - PROVIDE HOME RUN HONEYWELL PROFUSION ACCESS CONTROL CABLE 2195 (RISER RATED, FT4) IN EMT FROM EXISTING CARD ACCESS CONTROL PANEL TO THE FURTHEST CARD ACCESS DEVICE CONNECTION. TERMINATE ALL DEVICES TO CARD ACCESS CONTROLLER & MODULE(S). ASSOCIATED COMPONENTS & CONFIGURE TO FUNCTION. LABEL ACCESS CONTROL CABLES WITH DOOR DESIGNATIONS AT DOOR LOCATIONS & AT CONTROL PANEL. ALL (4) HONEYWELL PROFUSION ACCESS CONTROL JACKETED CABLES TO BE TERMINATED PER FOLLOWING:
 - ALL WIRE CONNECTORS SHALL BE:
 - 1.1. B-WIRE GEL FILLED CONNECTORS FOR EXTERIOR OR INTERIOR USE.
 - DOOR ELECTRIC STRIKE (ES-1) 18/4 STR (SETUP FOR FAIL-SECURE) INSTALL WITH STRIKE SURGE PROTECTION AT DEVICE END.
 - CARD ACCESS READER (CA-1) 22/6 STR OAS
 - DOOR CONTACT (DC-1) 22/2 STR
 - DOOR CONTACTS (DC-1) WIRED WITH A 4-STATE, DOUBLE END-OF-LINE 1k RESISTORS IN THE N/C STATE. (DC-1) IN DOOR FRAME HEADER.
 - PROVIDE MAGNET & INSTALL ONTO DOOR TOP CHANNEL TO ALIGN WITH (DC-1).
 - REQUEST TO EXIT (RTE) 22/4 STR; NOT REQUIRED BUT COIL-UP IN CEILING SPACE OR ELECTRICAL BOX SUFFICIENT LENGTH FOR FUTURE INSTALL & LABEL.
 - LOCKDOWN (SUPERVISED & MONITORED)
 - SEQUENCE OF OPERATION
 - WHEN LOCKDOWN "RED" BUTTON IS PUSHED
 - ALL (6) EXTERIOR VESTIBULE DOORS WILL BE LOCKED VIA (ES-1). EGRESS IS VIA RIM EXIT DEVICES (BY ARCHITECTURAL). INGRESS DOORS HAVE RIM EXIT DEVICE WITH THUMB KEY LOCK LATCH. EGRESS DOORS HAVE RIM EXIT DEVICE WITH PULL.
 - EXTERIOR DOORS & (CA-1) WILL BE PLACED INTO "LOCKED MODE" INCLUDING DISABLING (DO) & (MD-1). VALID ACCESS CARDS CANNOT UNLOCK THE CARD READER (CA-1).
 - A SILENT ALARM IS SENT TO CENTRAL CONTROLS.
 - PROVIDE (LD-1) WITH DUAL E.O.L. RESISTORS. INSTALL UNDER SECURITY FRONT COUNTER (EXACT LOCATION TBD).
 - WIRE (LD-1) TO EXISTING BOSCH INTRUSION PANEL ZONE. PUSHING (LD-1) RED BUTTON ACTUATES CONTACT CLOSURE & TRIGGERS INTRUSION PANEL RELAY OUTPUT; CONFIGURE TO NOTIFYING COW CENTRAL CONTROLS.
 - PROVIDE COW CENTRAL CONTROLS WITH SIMILAR (LD-1) IN THEIR SPACE (LOCATION TBC) TO ALLOW REMOTE LOCKDOWN & RESET.
 - CONFIGURE THE INTRUSION ALARM OUTPUT CONTACT IN THE EXISTING CARD ACCESS POWER SUPPLY WITH FACP CUTOFF TO DISABLE POWER TO THE FAIL-SECURE (ES-1) TO LOCK ALL (6) EXTERIOR VESTIBULE DOORS INCLUDING DISABLING (DO) & (MD-1).
 - CCTV
 - REINSTALL, RECONNECT & TEST (CAM).
 - INTERCOM/VIDEO
 - PROVIDE INTERCOMBUZZER/VIDEO CAMERA (INT/VID), VIDEO MASTER STATION & INCLUDED AIPHONE POWER SUPPLY AT SECURITY DESK. MOUNT DOOR STATION ON DOOR LATCH SIDE DOOR JAMB OR BESIDE AT 4" AFF TO PROVIDE A FACIAL VIEW. WIRE WITH 18/2 SOLID CONDUCTOR UNSHIELDED GREY FT-6 CABLE, PLENUM RATED OR NON-PLENUM RATED IN EMT TO VIDEO MASTER STATION. WIRE 18/4 STRANDED, UNTWISTED, UNSHIELDED GREY FT-6 CABLE, PLENUM RATED OR NON-PLENUM RATED IN EMT FROM VIDEO MASTER STATION TO EXISTING CARD ACCESS PANEL (LEAVE EXTRA 4 FEET COILED LENGTH IN PANEL FOR CITY TO TERMINATE & PROGRAM). MOUNT (INT/VID) ON DOOR LATCH MULLION, EXACT LOCATION TBD.

AREA OF WORK AT CENTRAL CONTROLS (BASEMENT)
AREA OF WORK ON BASEMENT & MAIN FLOOR



KEY PLAN
SCALE: N.T.S.

NOTES:

- THESE DRAWINGS SHALL NOT BE SCALED.
 - THE WORD "PROVIDE" IS DEFINED AS SUPPLY & INSTALL.
 - ALSO REFER TO ARCHITECTURAL, ELECTRICAL DRAWINGS & SPECIFICATIONS.
 - SUBMISSION OF SITE MARK-UPS, AS-BUILTS, OPERATING & MAINTENANCE MANUALS AND OTHER SUPPORTING DOCUMENTS TO CLIENT ARE MANDATORY AT THE COMPLETION OF THIS PROJECT.
 - THE CONTRACTOR SHALL VISIT THE SITE AND ENSURE ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
 - THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCTS, PIPES & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
 - ALL OPENINGS THROUGH FIRE ASSEMBLIES INCLUDING FLOORS AND CEILINGS ARE TO BE FIRE STOPPED AND SEALED WITH UL/C APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.
 - ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS, APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING PART OF THE RENOVATION WORK.
 - PROVIDE DYNA LABELS ON ALL EXISTING SWITCHES, PORTS & RECEPTACLES. PANEL SCHEDULE SHALL BE RETYPED TO REFLECT AS-BUILT CONDITIONS & INSERTED TO INSIDE OF ASSOCIATED PANEL DOOR SLEEVE PROTECTOR. ALSO REFER TO ELECTRICAL SPECIFICATIONS.
 - ALL ABANDONED ELECTRICAL FIXTURES, COMPONENTS, RECEPTACLES & DATA CABLING SHALL BE REMOVED BACK TO SOURCE & TERMINATED AS PER APPLICABLE CODES.
 - IF FIRE PULLS ARE DISCONNECTED, RECONNECT & TEST ALL FIRE PREVENTION EQUIPMENT. INSTALLATION SHALL BE IN CONFORMANCE WITH CANULC-552-01. STANDARD FOR INSTALLATION OF FIRE ALARM SYSTEMS. NOTIFY BUILDING OWNER PRIOR TO PERFORMING A MANDATORY FIRE ALARM VERIFICATION REPORT IN CONFORMANCE WITH CANULC-5537. STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEMS FOR ZONES AFFECTED.
- WARNING:**
ASBESTOS MAYBE PRESENT BEHIND WALLS, CEILING SPACE & FLOORS. IF ASBESTOS & ANY HAZARDOUS MATERIAL IS FOUND, STOP WORK IMMEDIATELY & CONTACT CITY OF WINNIPEG CENTRAL CONTROL PH: 204-986-2351.

ELECTRICAL DRAWING LISTS

SHEET No:	SHEET TITLE
E1	ADMINISTRATION BUILDING, PARTIAL MAIN FLOOR PLAN, ELECTRICAL POWER AND SYSTEMS
E2	COUNCIL BUILDING, PARTIAL MAIN FLOOR PLAN, ELECTRICAL POWER AND SYSTEMS
E3	ELECTRICAL SPECIFICATIONS

ABBREVIATIONS

DESCRIPTION	ABBREVIATION
AMPERE, AMPACITY	A
ABOVE COUNTER	AC
ACOUSTIC CEILING TILE	ACT
ABOVE FINISH FLOOR	AFF
BELOW FINISH CEILING	BFC
CARD ACCESS READER	CA
CAMERA	CAM
CIRCUIT, CCT: C-PANEL "B"; CT= CIRCUIT "1" (B1)	CCT
CEILING	CLNG
CEILING SPACE	CS
DEMOLITION, REMOVE BACK TO SOURCE	D
DOOR BELL BUTTON	DB
DEDICATED CIRCUIT	DED
DOOR CONTACT	DC
DOOR OPERATOR (BY ARCHITECTURAL)	DO
DISCONNECT SWITCH	DSW
DRAWING	DWG
EXISTING OR 'SHOWN WITH NO DESIGNATION'	E
ELECTRICAL BOX	EB
ELECTRIC STRIKE	ES
FIRE ALARM CONTROL PANEL	FACP
JUNCTION BOX	JB
MOTION DETECTOR	MD
MAGNETIC LOCK	ML
NEW	N
NOT IN CONTRACT	N.I.C.
NOT TO SCALE	NTS
ON CENTER	O/C
OCCUPANCY SENSOR	OS
PANEL	PNL
PRESENCE SENSOR	PS
RELOCATED	R
STAINLESS STEEL	S/ST
TO BE CONFIRMED	TBC
TO BE DETERMINED	TBD
TYPICAL	TYP.

ELECTRICAL LEGEND

TYPE	DESCRIPTION
INT/VID	7" TOUCHSCREEN VIDEO INTERCOM SET, AIPHONE, IPS-4EDV, EACH SET CONTAINS: (1) DOOR STATION, JP-DV; (1) VIDEO MASTER STATION, JP-4MED; (1) POWER SUPPLY, PS-2420UL.
CAM-1	NETWORK REMOTE HEAD CAMERA & LENS IN DOOR MULLION HOUSING. HANWHA XNB-6001 (HEAD CAMERA), SLA-T4680V (LENS), SHD-46VD6(BLACK-DOOR JAMB HOUSING), TO BE CONFIRMED
PS-1	PRESENCE SENSOR: ASSA ABLOY DITEC REM OR EQUAL. ACTIVE INFRARED WITH BACKGROUND SUPPRESSION. 12-24V SUPPLY. REACTION TIME 64ms. MAX. PRESENCE TIME: INFINITE. OUTPUT: 2 RELAYS (FREE OF POTENTIAL CONTACT). INPUT: 1 OPTOCOUPLER (FREE OF POTENTIAL CONTACT), MAX. NUMBER OF MODULES: 4. PROTECTION: IP54 MIN
ES-1	ELECTRIC STRIKE 9800-630-24VDC-FSE, FAIL-SECURE, HES (SUPPLIED BY ARCHITECTURAL)
CA-1	CARD ACCESS READER: MULLION SIZE, IP65 HID SIGNO MODEL 20 NKS 00-00000, BLACK
DC-1	DOOR CONTACT WITH MAGNET - GRI 199-12-W, 1" STEEL DOOR RECESSED SWITCH SET, STANDARD GAW, 5P, 175VDC, 0.25A, DPDT, X 2, WHITE; DOOR CHANNEL MAGNET, GRI MC-180
LD	LOCKDOWN BUTTON (ILLUMINATED) WITH LIFT COVER; TURN-TO-RESET BUTTON, CURVED DESIGN, LOCKDOWN LABEL, (2) FORM C CONTACTS, DPDT, RATED 10A @ 125/250VAC, 6A @ 30VDC, LED COLOUR OPTIONS: RED, GREEN & WHITE, UL/CUL LISTED, ADA COMPLIANT, S71 SS2429L-EN, BLUE.

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	D.A.U	2024.09.27



DRAWN DATE	CHECKED USER	DESIGNED DATE	APPROVED
D.A.U 2024.06.13	USER APPROVAL	D.A.U	

THE CITY OF WINNIPEG
ASSETS AND PROJECT MANAGEMENT
DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
ADMINISTRATION AND COUNCIL BUILDINGS
DESIGN AND CONSTRUCTION OF
EXTERIOR DOOR REPLACEMENT
510 MAIN STREET

SHEET TITLE
ADMINISTRATION BUILDING
PARTIAL MAIN FLOOR PLAN
ELECTRICAL - POWER AND SYSTEMS

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2021-111	E1