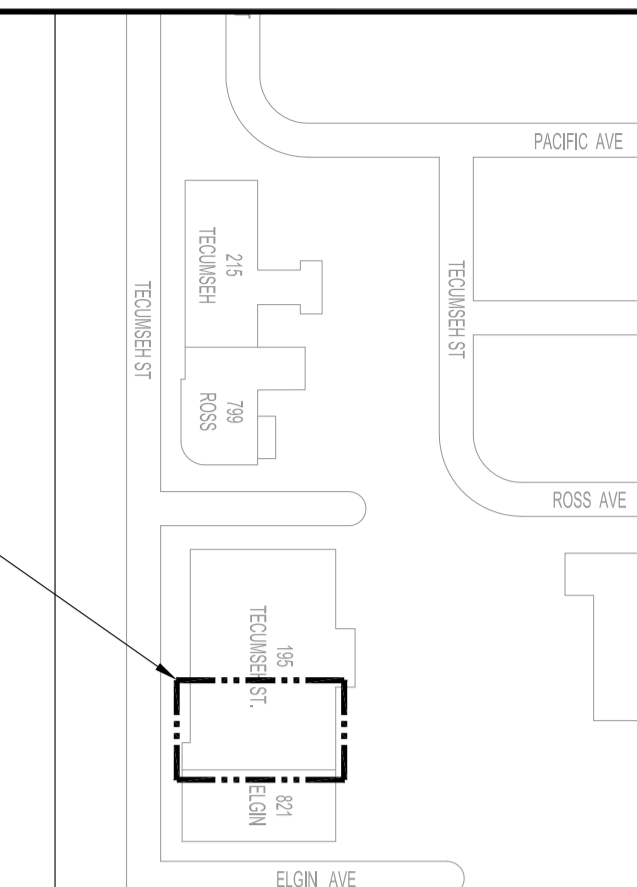


**PARTIAL MAIN FLOOR PLAN - DEMOLITION AND RENOVATION**  
SCALE: 1/8"=1'-0"



**KEY PLAN**  
SCALE: N.T.S.

**NOTES:**  
THESE DRAWINGS SHALL NOT BE SCALED. CONSULT WITH CLIENT AND DESIGNER ON ANY CONCERNS.  
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 MECHANICAL AND ELECTRICAL COMPONENTS 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 ULC 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.  
**WARNING:**  
ASBESTOS MAYBE PRESENT BEHIND WALLS, CEILING SPACE & FLOORS. IF ASBESTOS & ANY HAZARDOUS MATERIAL IS FOUND, STOP WORK IMMEDIATELY & CONTACT CITY OF WINNIPEG, CENTRAL CONTROLS, PH: 204-986-2351.

**ABBREVIATIONS**

ABBREVIATION	DESCRIPTION
A	AMPERE, AMPACITY
AFF	ABOVE FINISH FLOOR
CB	CIRCUIT BREAKER
CCT	CIRCUIT, CCT: C= PANEL "B"; CT= CIRCUIT "1" (B1)
CEC	CANADIAN ELECTRICAL CODE, LATEST EDITION
CW	COMES WITH
D	DEMOLITION, REMOVE BACK TO SOURCE
DED	DEDICATED CIRCUIT
DSW	DISCONNECT SWITCH
DWG	DRAWING
E	EXISTING OR "NO DESIGNATION"
EM	ELECTRICITY METER
GF	GROUND FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
N	NEW
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O/C	ON CENTER
PNL	PANEL
R	RELOCATE
TBD	TO BE DETERMINED
TYP.	TYPICAL
WP	WEATHERPROOF

**ELECTRICAL LEGEND**

TYPE	DESCRIPTION
PNL	ELECTRICAL PANEL
GF (WP)	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE WEATHERPROOF
⊖	DUPLEX RECEPTACLE
⊖ (M)	MOTOR STARTER/DISCONNECT SWITCH
⊖ (J)	JUNCTION BOX
⊖ (A)	DAMPER ASSEMBLY WITH ACTUATOR
⊖ (D)	DUAL-GAS DETECTOR

**DRAWING LIST**

SHEET No:	SHEET TITLE
E1	PARTIAL MAIN FLOOR PLAN: ELECTRICAL; DEMOLITION AND RENOVATION
E2	ELECTRICAL SPECIFICATIONS, PANEL SCHEDULE, SINGLE LINE DIAGRAM

No.	REVISION/DESCRIPTION	BY	DATE
1	ISSUED FOR ADDENDUM 1.	DTA	2021.06.14
0	ISSUED FOR CONSTRUCTION	DTA	2021.08.01
00	ISSUED FOR COST ESTIMATE	DTA	2020.01.21
000	ISSUED FOR CLIENT REVIEW	DTA	2019.12.10



DRAWN	DATE	CHECKED	DESIGNED	APPROVED
	2019.12.16	USER		

THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT  
VEHICLE REPAIR SHOP  
SHOP VENTILATION UPGRADE

195 TECUMSEH STREET  
SHEET TITLE

PARTIAL MAIN FLOOR PLAN  
ELECTRICAL  
DEMOLITION AND RENOVATION

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2018-120	E1-R1

**POWER AND SYSTEMS DEMOLITION NOTES: "X"**  
ALSO SEE NOTES & SPECIFICATIONS.  
ALL ABANDONED CABLES SHALL 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.

1. REMOVE WIRING & ALL ASSOCIATED COMPONENTS BACK TO CIRCUIT BREAKER IN PANEL(S).  
1.1. EXISTING (2) EAST EXTERIOR WALL FANS TO REMAIN.
2. REMOVE ROOF EXHAUST FAN WIRING & ALL ASSOCIATED COMPONENTS BACK TO CIRCUIT BREAKER IN PANEL(S).
3. REPLACE EXISTING CO<sub>2</sub> UNITS (CEILING AND WALL UNITS) WITH NEW.

**RENOVATION NOTES "X"**  
ALSO SEE NOTES & SPECIFICATIONS.

1. PROVIDE NEW ELECTRICAL PANEL "101".  
1.1. PROVIDE & SECURELY MOUNT (1) 4'X8'X3/4" THICK PLYWOOD SHEET PAINTED WITH GREY FIRE RETARDANT PAINT (MOUNT 8' LENGTH VERTICAL) FOR NEW PANEL "101".  
1.2. FEED FROM (3-PH MAIN CDP) IN EMT.  
1.3. MOUNT PANEL BOARD TOP AT 66" AFF.  
1.4. PROVIDE COORDINATED TRIPS & SETTINGS FOR ALL BREAKERS.
2. FOR EACH (F-1 & F-2) PROVIDE WIRING IN EMT FROM PANEL "101" TO WATER TIGHT ROOF PITCH BOX, AS PER INDUSTRY ROOFING STANDARD THEN WITH 3/4" TECK TO NEMA-3R WEATHERPROOF RATED DISCONNECT SWITCH IN 3/4" TECK TO (F-1). PROVIDE CONTACTORS.  
2.1. INTERLOCK EACH ROOF EXHAUST FAN (F-1 & F-2) TO NEW CO<sub>2</sub> UNITS, EXISTING SOUTH CO<sub>2</sub> UNITS & MOTORIZED DAMPER (REFER TO MECHANICAL DRAWING & NOTE B BELOW). ALL WIRING SHALL BE IN EMT.
3. PROVIDE 240V/1PH, NON-FUSED DISCONNECT SWITCH (DSW) FOR EACH FAN UNITS (F-3 TO F-8).  
3.1. REFER TO MECHANICAL DRAWING FOR FAN UNIT OPERATION.  
3.2. MOUNT ALL NEW (DSW) FOR (F-3 TO F-8) ONTO EXISTING BRICK WALL BUMP-OUT (CONFIRM LOCATION) AT 80" MINIMUM AFF.  
3.3. PROVIDE CEILING-MOUNTED (JB) FOR (F-3 TO F-8).  
3.4. RELOCATE EXISTING AIR LINE & RECEPTACLE IF REQUIRED TO HAVE (2) ROWS OF (DSW).
4. PROVIDE A DEDICATED MAINTENANCE EQUIPMENT 120V, 20A BRANCH CIRCUIT, 5-20R GFCI RECEPTACLE WITH WEATHERPROOF COVER AS REQUIRED BY CEC. WIRE SIZE AS PER PANEL SCHEDULE IN EMT TO CIRCUIT SHOWN. INSTALL USING UNISTRUT COMPONENTS OR SIMILAR & FASTEN SECURELY TO ROOF STRUCTURE AT 30" MINIMUM ABOVE FINISHED ROOF. PROVIDE WATER TIGHT ROOF PITCH BOX, AS PER INDUSTRY ROOFING STANDARD.
5. PROVIDE DEDICATED 120V, 20 AMP CIRCUITS FOR EACH UNIT HEATERS (UH-1 TO UH-6) & COMPACT DISCONNECT (4-1/2" x 3-1/2"), WIRE SIZE AS PER PANEL SCHEDULE IN EMT TO CIRCUIT SHOWN. WIRE THERMOSTATS AS PER MECHANICAL DRAWINGS. SURFACE MOUNT COMPACT DISCONNECT 8" OR LESS TO UNIT HEATER THERMOSTAT.
6. PROVIDE DEDICATED 120V, 15 AMP CIRCUIT FOR NEW STANDALONE DUAL-GAS DETECTORS (CO & NO<sub>2</sub>).  
6.1. SUPPLY & INSTALL HONEYWELL MODEL E3POINT WITH REMOTE & OPTIONAL MAIN AC INPUT WITH ON-BOARD RELAYS, TRANSFORMER, MOUNT AT 48" AFF & BFC. WIRE TO NEW RELAYS INTERLOCK WITH EXHAUST FANS (F-1 AND F-2) & ASSOCIATED NEW MOTORIZED DAMPER ASSEMBLIES WITH LOW-VOLTAGE TRANSFORMERS.  
6.1.1. TYPE: THERMALLY BROKEN FRAME DAMPER, ACCEPTABLE MANUFACTURER, TAMCO SERIES 9000  
6.1.2. MOTORIZED DAMPER ACTUATOR: ACCEPTABLE MANUFACTURER, BELIMO.
7. REPLACE GAS CARTRIDGES ON EXISTING CO<sub>2</sub> UNITS, INTERLOCK WITH NEW ROOF EXHAUST FANS AS ABOVE & TEST.