























ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
RECEPTACLES			
	DUPLEX RECEPT		LIGHT SYMBOL INDICATES EXISTING
	RECEPT C/W WET LOCATION COVERPLATE(DUPLEX SHOWN)		DASHED SYMBOL INDICATES REMOVED
	RECEPT C/W INTEGRAL GF(DUPLEX SHOWN)		KEYED NOTE(SEE SCHEDULE)
	RECEPT C/W NEMA 5-20R CONFIG		DEMOLITION NOTE(SEE SCHEDULE)
EQUIPMENT			
	MOTOR(SEE SCHEDULE)		REVISION TAG
	DIRECT POWER CONNECTION		FIRE ALARM
	POWER OR DISTRIBUTION PANEL		DUCT SMOKE DETECTOR(TYPE DENOTED)
			GAS DETECTOR(TYPE DENOTED)
			FIRE ALARM CONTROL PANEL
REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.			

ELECTRICAL SYMBOL NOTES

	DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO PANEL A, CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY A SWITCH.		SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.
	SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY THE TAG. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 1, 3, 5.		CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 21mm (3/4") CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.
	MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO PANEL A, CIRCUITS 2, 4, 6.		PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.
			TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTERS "TRX". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "TRX-1".
			KEYNOTE. SEE THE KEYED NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED. (TYP) INDICATES THAT THE NOTE IS TYPICAL OF THE APPLICATION.

GENERAL ELECTRICAL NOTES

- A. OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10' RADIUS WHEN THE CONSULTANT REQUESTS RELOCATION PRIOR TO CLOSING OF WALL FRAMING, WITHOUT ADDITIONAL COST.
- B. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
- C. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATINGS AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- D. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL, OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE RACEWAY AS REQUIRED TO CONCEAL SAME.
- E. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.
- F. WHERE EXISTING WALLS ARE TO BE OPENED FOR INSTALLATION OF NEW WIRING, COORDINATE WITH GENERAL CONTRACTOR ROUTING OF SAME.
- G. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE KEPT TO A MINIMUM.
- H. ALL LIFE-SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
- I. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
- J. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "DEMOLISH" SHALL INCLUDE THE COMPLETE REMOVAL OF THE EXISTING ITEM IDENTIFIED, C/W ASSOCIATED WIRING, CONDUIT AND JUNCTION BOXES BACK TO LAST REMAINING DEVICE OR SOURCE. CIRCUITS FREED UP FROM DEMOLISHED ELECTRICAL, SHALL BECOME SPARE. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
- K. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "REMOVE & REPLACE" SHALL INCLUDE THE COMPLETE REMOVAL & REPLACEMENT OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION, WITH A NEW ITEM, UTILIZING THE EXISTING OUTLET BOX AND WIRING. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
- L. AS INDICATED IN CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE, THE TERM "RELOCATE" SHALL INCLUDE THE COMPLETE RELOCATION OF THE EXISTING ITEM IDENTIFIED IN ITS CURRENT LOCATION ON THE DEMOLITION DRAWINGS, TO THE NEW LOCATION AS INDICATED ON THE RENOVATION DRAWINGS. INCLUDE ALL LABOUR AND MATERIALS TO REROUTE/EXTEND/REFEED THE EXISTING CIRCUITRY AS REQUIRED TO ACCOMMODATE THE RELOCATION. REFER TO THE RENOVATION DRAWING KEY NOTES FOR FURTHER REQUIREMENTS.
- M. SITE CONFIRM ANY ELECTRICAL WITHIN AREAS OF RENOVATION REQUIRING RELOCATION TO ACCOMMODATE THE RENOVATION.
- N. WHERE EXISTING WIRING AND CONDUIT ARE RE-USED, VERIFY EXISTING CONDITIONS. MODIFY AND SUPPLEMENT EXISTING FASTENING AND SUPPORT TO MEET CODE REQUIREMENTS.
- O. WHERE BRANCH CIRCUIT BREAKERS ARE REMOVED, PROVIDE FILLER PLATES FOR BREAKER SPACES.
- P. CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE, PRIOR TO FINALIZING PRICING.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	HP	HORSEPOWER	PF	POWER FACTOR
A	AMPERE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PH	PHASE
AFF	ABOVE FINISHED FLOOR	I/W	INTERLOCK WITH	PNL	PANEL
AFG	ABOVE FINISHED GRADE	J-BOX	JUNCTION BOX	PWR	POWER
AHU	AIR HANDLING UNIT			ROPT	RECEPTACLE
ALT	ALTERNATE	KV	KILOVOLT	RTU	ROOF TOP UNIT
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT-AMPERE	SHT	SHEET
		KW	KILOWATT	SPEC	SPECIFICATION
C	CONDUIT	LV	LOW VOLTAGE	SP	SPARE
CB	CIRCUIT BREAKER	MAX	MAXIMUM	TYP	TYPICAL
CKT	CIRCUIT	MC	MECHANICAL CONTRACTOR	V	VOLT
CONST	CONSTRUCTION	MDP	MAIN DISTRIBUTION PANEL	VA	VOLT-AMPERES
CONTR	CONTRACTOR	MFR	MANUFACTURER	W	WATT
CU	COPPER	MIN	MINIMUM	W/	WITH
C/W	COMPLETE WITH	MISC	MISCELLANEOUS	W/O	WITHOUT
DISC	DISCONNECT	MLO	MAIN LUGS ONLY		
DIST	DISTRIBUTION	MTR	MOTOR, MOTORIZED	<	ANGLE
DWG	DRAWING			@	AT
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE	Δ	DELTA
ELEC	ELECTRIC, ELECTRICAL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	"	FEET
EXIST	EXISTING			#	INCHES
GC	GENERAL CONTRACTOR	NIC	NOT IN CONTRACT	Ø	NUMBER
GFI	GROUND FAULT CIRCUIT INTERRUPTER	NTS	NOT TO SCALE		PHASE
GND	GROUND				

ELECTRICAL DRAWINGS

SYMBOLS & ABBREVIATIONS	
E0.1	ELECTRICAL SYMBOLS AND ABBREVIATIONS
DEMOLITION PLANS	
ED2.1	ELECTRICAL DEMOLITION PLAN
POWER PLANS	
EP2.1	ELECTRICAL RENOVATION PLAN
SCHEDULES	
E6.1	ELECTRICAL SCHEDULES



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		APPROVAL		



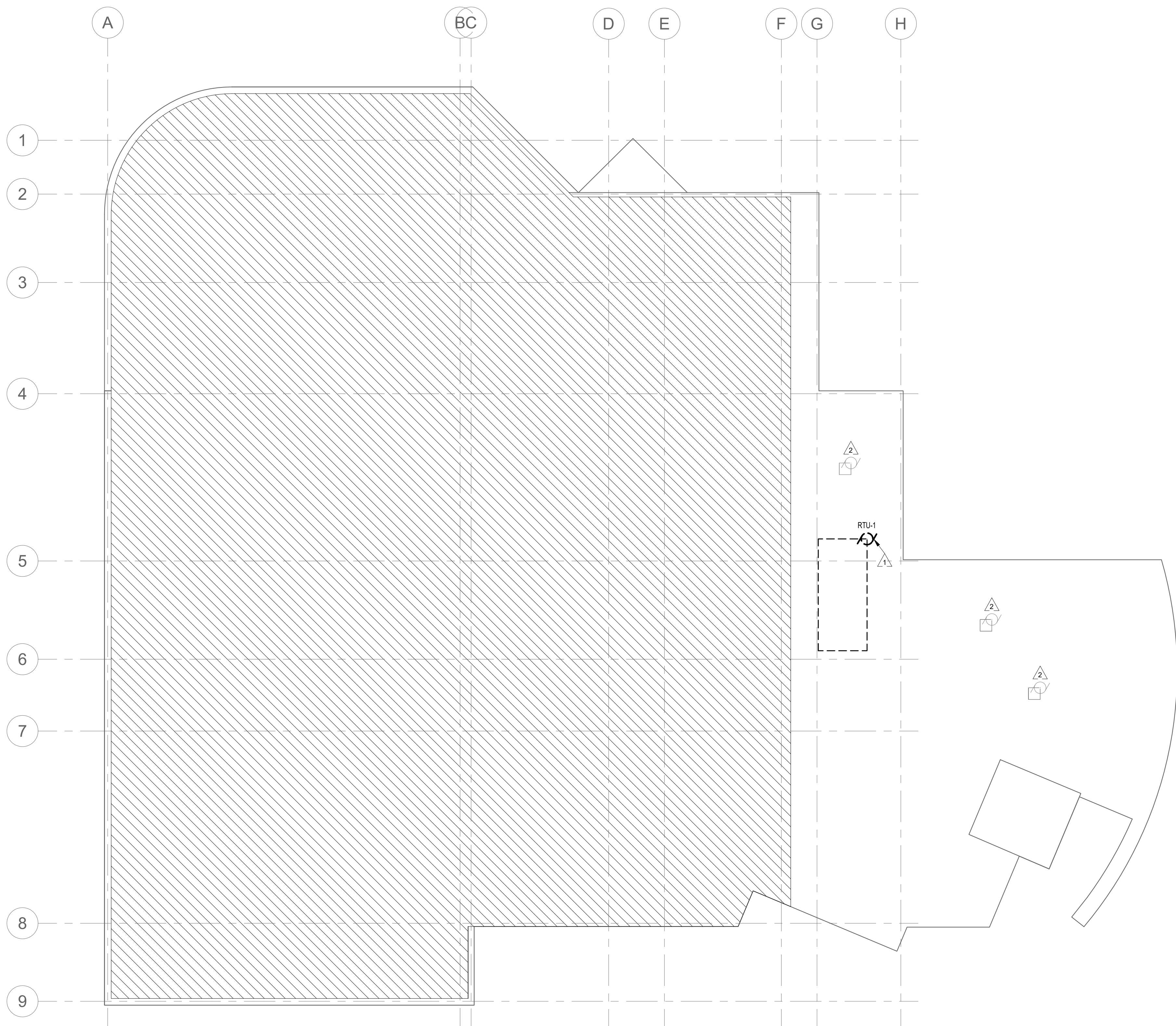
THE CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
TURTLE ISLAND RECREATION CENTRE RTU
REPLACEMENT

510 KING STREET

SHEET TITLE
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SCALE	PROJECT No:	SHEET No:
As indicated	25086	E0.1



1 ROOF - POWER & SYSTEMS DEMOLITION
ED2.1 SCALE: 1/8" = 1'-0"

NOTES:

DEMOLITION GENERAL NOTES

- A. EQUIPMENT SHUTDOWN AND THE INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE KEPT TO A MINIMUM.
- B. ALL LIFE-SAFETY SYSTEMS SHALL BE MAINTAINED AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
- C. CONTRACTOR SHALL CONFIRM ALL EXISTING SYSTEMS TO BE IN WORKING CONDITION PRIOR TO CARRYING OUT MODIFICATIONS. WHERE EXISTING SYSTEMS ARE NOT OPERABLE, NOTIFY THE CONSULTANT PRIOR TO CARRYING OUT WORK.
- D. PROVIDE BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
- E. DRAWING RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION SUBMITTED BY THE OWNER AND FROM SITE OBSERVATIONS AS NOTED BY THE CONSULTANT. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE EXTENT OF KNOWN CONSTRUCTION INFORMATION.
- F. REMOVE SMOKE DETECTORS IN AREAS OF RENOVATION AND REINSTALL AFTER COMPLETION. PROVIDE TEMPORARY HEAT DETECTORS IN THE CORRIDORS DURING THE CONSTRUCTION PERIOD.

KEY NOTES

- 1 DEMOLISH CONNECTION TO EXISTING ROOF TOP UNIT. RETAIN EXISTING WIRING FOR REUSE IN RENOVATION PHASE. DEMOLISH EXISTING 200A/3P BREAKER WITHIN MAIN DISTRIBUTION PANEL.
- 2 EXISTING EXHAUST FAN TO REMAIN.



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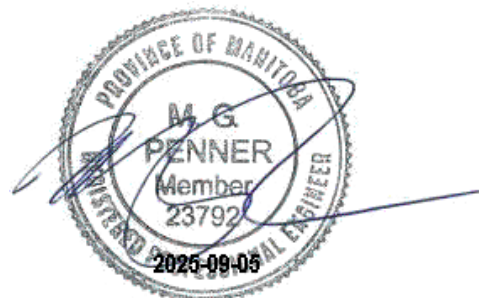
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PROJECT

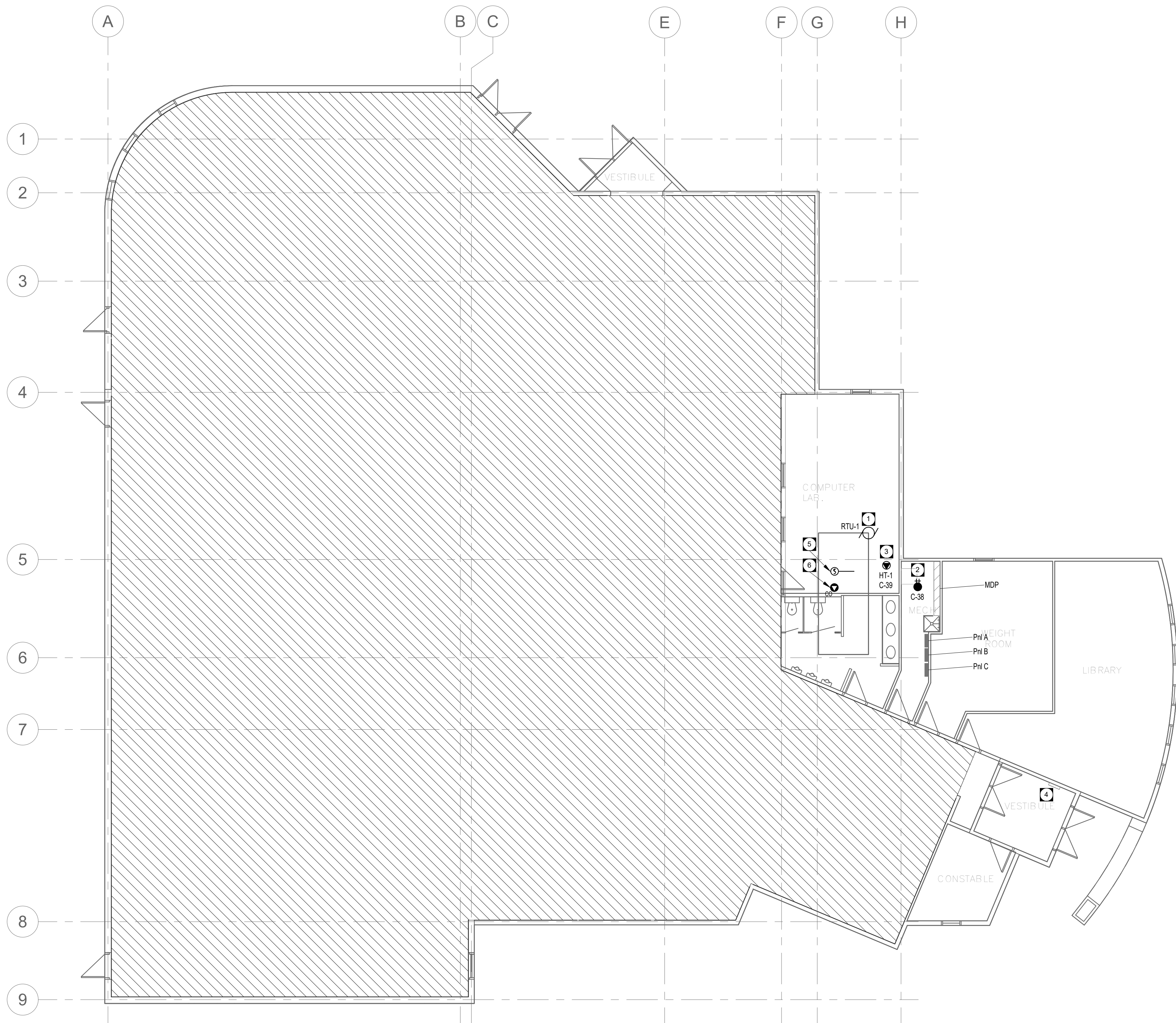
TURTLE ISLAND RECREATION CENTRE RTU
REPLACEMENT

510 KING STREET

SHEET TITLE

ELECTRICAL DEMOLITION PLAN

SCALE	PROJECT No:	SHEET No:
As indicated	25086	ED2.1



1 MAIN FLOOR PLAN - POWER & SYSTEMS
EP2.1 SCALE: 1/8" = 1'-0"

NOTES:

GENERAL NOTES

- WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
- FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT SHALL BE FLEXIBLE. CONFIRM FINAL CIRCUIT BREAKER AND WIRE SIZE WITH MECHANICAL EQUIPMENT SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND WIRE SIZE AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- PROVIDE TESTING AND VERIFICATION FOR ALL NEW AND MODIFIED FIRE ALARM DEVICES.

KEY NOTES

- WIRE AND CONNECT NEW ROOF TOP UNIT TO EXISTING CIRCUITRY FREED UP IN DEMOLITION PHASE. PROVIDE NEW 125A/3P BREAKER WITHIN MAIN DISTRIBUTION PANEL TO FEED NEW ROOF TOP UNIT.
- PROVIDE NEW MAINTENANCE RECEPTACLE ON ROOF. REFER TO SHEET E6.1 FOR INSTALLATION DETAIL.
- WIRE AND CONNECT HEAT TRACE AS SUPPLIED BY MECHANICAL. COORDINATE ON SITE FINAL CONNECTION LOCATION.
- EXISTING EDWARDS EST FIRE ALARM CONTROL PANEL.
- PROVIDE DUCT MOUNTED SMOKE DETECTOR DOWNSTREAM OF MAIN SUPPLY DUCT FOR NEW RTU.
- PROVIDE CO DETECTOR WITHIN RETURN AIR PLENUM OF NEW RTU.



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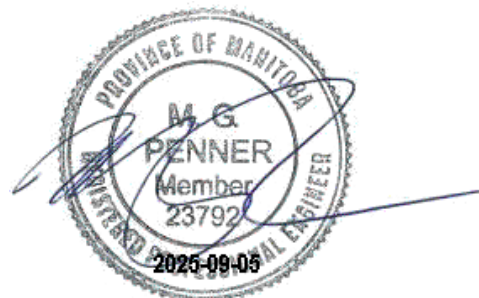
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PROJECT

TURTLE ISLAND RECREATION CENTRE RTU
REPLACEMENT

510 KING STREET

SHEET TITLE

ELECTRICAL RENOVATION PLAN

SCALE	PROJECT No:	SHEET No:
As indicated	25086	EP2.1

DRAWING SHEET SIZE:A1(841mmx594mm)PLOT1:1