

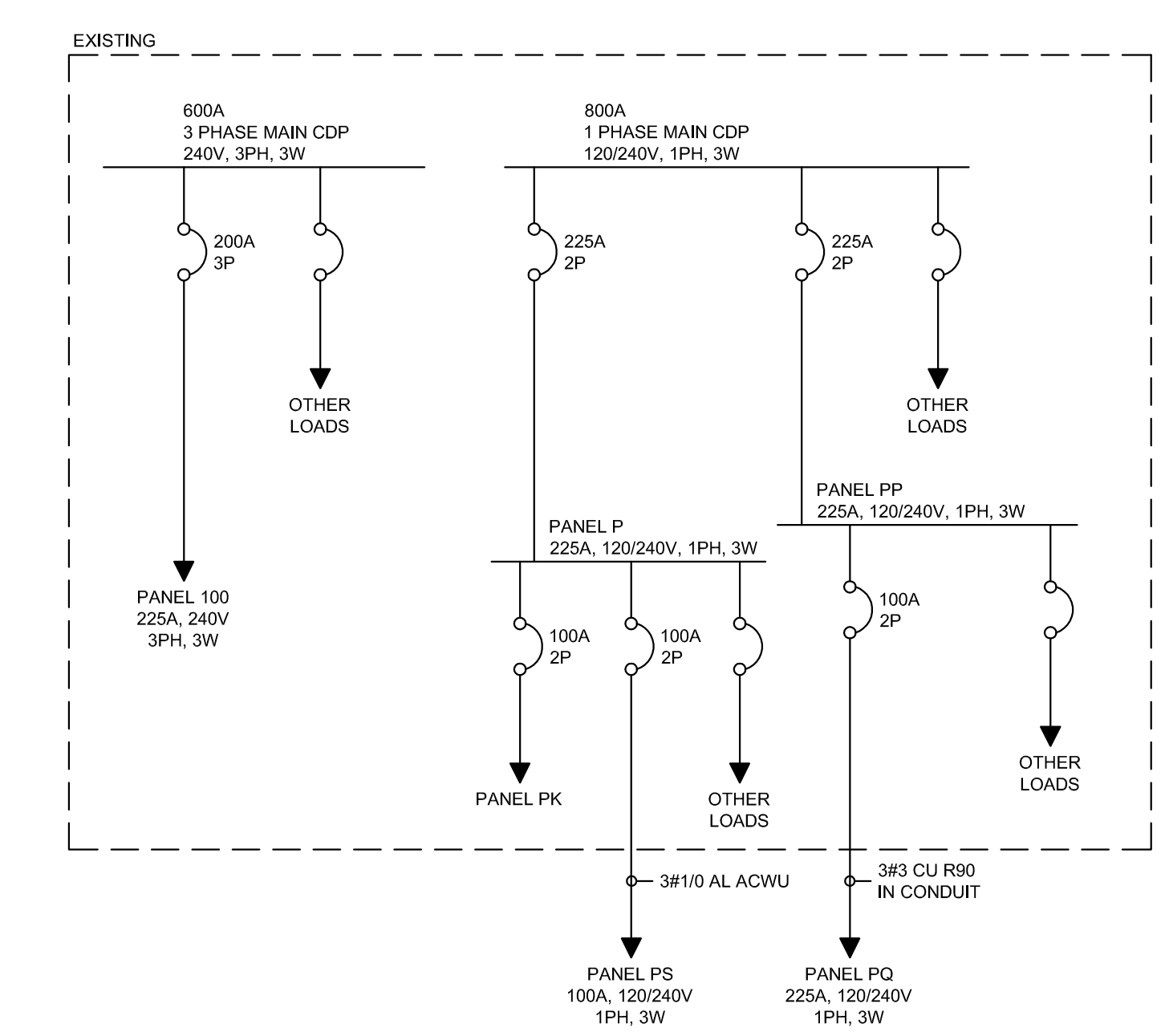
DRAWING NOTES:

- 1 REFEED RELOCATED HOT WATER TANK FROM ORIGINAL CIRCUIT.
- 2 CONFIRM THE LOCATION AND QUANTITIES OF POWER, DATA AND PHONE OUTLETS IN R05. IN ADDITION TO THE OUTLETS SHOWN ON THIS DRAWING, REFER TO THE AUDIO-VISUAL DRAWINGS FOR AUDIO SPEAKER, CONDUIT AND COMMUNICATION WIRING REQUIREMENTS FOR THE OPERATIONS SYSTEMS.
- 3 RECEPTACLE IN CEILING FOR PROJECTOR.
- 4 PROVIDE FOUR 120V CCTS. REFER TO AUDIO-VISUAL DRAWINGS FOR EXACT TABLE REQUIREMENTS.
- 5 CONFIRM POWER AND DATA REQUIREMENTS OF BENCHES AND STATIONS.
- 6 POWER DOOR OPERATORS AND CARD READER TO BE INTERCONNECTED WITH CARD READER SYSTEM AS PER CITY OF WINNIPEG'S REQUIREMENTS.
- 7 CONFIRM THE LOCATION AND QUANTITIES OF POWER, DATA AND PHONE OUTLETS IN R04. IN ADDITION TO THE OUTLETS SHOWN ON THIS DRAWING, REFER TO THE AUDIO-VISUAL DRAWINGS FOR AUDIO SPEAKERS, CONDUIT AND COMMUNICATION WIRING REQUIREMENTS FOR THE SYSTEMS WITHIN THIS ROOM.
- 8 IN ADDITION TO POWER, DATA AND PHONE OUTLETS SHOWN ON THIS DRAWING, REFER TO AUDIO-VISUAL DRAWINGS FOR ADDITIONAL AUDIO SPEAKERS, CONDUIT AND WIRING REQUIRED IN R06.
- 9 REFER TO MILLWORK DRAWINGS FOR EXACT MICROWAVE AND COUNTER RECEPTACLE PLACEMENT.

GENERAL NOTES:

- A. ENSURE THAT EXISTING WIRING EXPOSED OR AFFECTED DURING CONSTRUCTION IS REDONE OR REROUTED IN A PROPER MANNER. RE-USE CIRCUITS AND WIRING WHERE POSSIBLE. WHERE WIRING IS NOT RE-USED, STRIP BACK TO CLOSEST DISCONNECT OR PANEL.
- B. DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE OR RELOCATE ANY ELECTRICAL DEVICES OR JUNCTION BOXES WHICH WILL BE RENDERED INACCESSIBLE BY FIXED-IN-PLACE CABINETRY OR EQUIPMENT.
- C. PROVIDE 3/4" CONDUIT FROM EVERY DATA AND PHONE LOCATION TO ACCESSIBLE CEILING SPACE. RUN ONE CAT-5E FROM EACH PHONE LOCATION TO TELEPHONE BACKBOARD, AND ONE CAT-5E FROM EACH DATA LOCATION TO SERVER LOCATION. RUN CABLE IN CONDUIT WHEN RUNNING ACROSS EXPOSED CEILINGS OR WALLS. INSTALL JACKS, SWITCHES, BIX BLOCKS, PATCH PANELS AND ALL NECESSARY EQUIPMENT AND MAKE ALL CONNECTIONS TO ENSURE FULLY OPERATIONAL SYSTEMS.
- D. FOR WALLS WHICH WILL BE TREATED TO INCREASE THEIR FIRE RATING, REMOVE ALL DEVICES, EXTEND BOXES AS NECESSARY, AND RE-INSTALL DEVICES WHEN WORK IS COMPLETE.
- E. WHERE A NEW RECEPTACLE IS SHOWN IN THE APPROXIMATE AREA ON AN EXISTING WALL WHERE A DEVICE ALREADY EXISTS, THE NEW DEVICE NEED NOT BE ADDED, PROVIDED THE EXISTING DEVICE IS IN PROPER WORKING CONDITION.
- F. ALL AV RECEPTACLES IN ROOMS R04, 5, AND 6 SHALL BE FED FROM THE SAME PANEL.
- G. CABLES AND CONDUIT PENETRATING A FIRE WALL SHALL BE FIRE CAULKED.

SINGLE LINE DIAGRAM



ELECTRICAL SPECIFICATIONS:

1. **GENERAL**
SUPPLY ALL LABOUR, EQUIPMENT & MATERIALS NECESSARY AND REASONABLY IMPLIED FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK AS SHOWN ON THE PLANS AND/OR SPECIFIED. DETERMINE WHETHER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ANY OF THE FOLLOWING: HVAC CONTROLS, SECURITY, AUDIO, OR ENTRY/DOOR CONTROLS.
2. **CODES, PERMITS, AND FEES**
ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE, PROVINCIAL, MUNICIPAL, AND OTHER CODES, RULES AND REGULATIONS. OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED TO EXECUTE THE WORK.
3. **VERIFICATION**
THE ELECTRICAL SUB-CONTRACTOR SHALL CAREFULLY EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THE WORK TO BE CERTAIN THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY CARRIED OUT. PRIOR TO THE SUBMISSION OF BID OPPORTUNITY, THE CONTRACTOR SHALL REPORT AT ONCE TO THE CONTRACT ADMINISTRATOR, ANY DEFECT, DISCREPANCY, OMISSION, OR INTERFERENCE AFFECTING THE WORK OF THIS SECTION OR THE GUARANTEE OF THE SAME. REFER TO MECHANICAL DRAWINGS FOR CONTROL WIRING AND EQUIPMENT LOCATIONS.
4. **MATERIALS**
ALL MATERIALS SUPPLIED SHALL BE NEW (OR AS NOTED) AND OF THE QUALITY INDICATED IN THE SPECIFICATIONS AND SHALL CONFORM TO THE STANDARDS OF THE C.S.A. IN THE EVENT THAT A MATERIAL SPECIFIED DOES NOT BEAR C.S.A. OR EQUIVALENT APPROVAL, THE CONTRACTOR IS TO OBTAIN THE APPROVAL OF THE LOCAL INSPECTION AUTHORITY AND MAKE ANY MODIFICATIONS REQUIRED AT NO ADDITIONAL EXPENSE TO THE CITY OF WINNIPEG.
5. **SUBSTITUTIONS**
EQUIPMENT AND MATERIAL SHALL BE INSTALLED AS SPECIFIED. REQUESTS FOR EQUAL STATUS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR 7 DAYS PRIOR TO CLOSE OF BID OPPORTUNITY IN ACCORDANCE WITH BY.
6. **WORKMANSHIP**
FOLLOW EXISTING WIRING METHODS AND STANDARDS. ALL WORK TO BE DONE IN A NEAT AND PROFESSIONAL MANNER. CABLE AND CONDUIT RUNS TO BE RUN PARALLEL TO BUILDING LINES. WALL DEVICES AND EQUIPMENT TO BE INSTALLED SQUARE AND PLUMB. CEILING DEVICES AND LIGHTS TO BE CENTERED OF SPACE AND IN LINE UNLESS SHOWN OTHERWISE ON DRAWINGS.
7. **DEVICES AND WIRING**
PROVIDE ALL WIRING AND TERMINATIONS FOR TELEPHONE, AND DATA TO ENSURE COMPLETE AND OPERATING SYSTEMS UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE PROVIDED WITH DC POWER FROM THE NEAREST BATTERY UNIT. ALL CONDUCTORS TO BE COPPER UNLESS SPECIFIED OTHERWISE AND OF A MINIMUM SIZE OF #12 AWG. ALL CONDUCTORS TO BE SIZED TO KEEP VOLTAGE DROP WITHIN ALLOWABLE LIMITS. ALL WIRE RUN IN RETURN AIR SPACES SHALL BE FT6 RATED.
8. **EQUIPMENT LOCATIONS**
SWITCHES, COUNTER RECEPTACLES, PULL STATIONS, AND CONTROLS SHALL BE MOUNTED 1200mm (47") TO TOP ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS. RECEPTACLES SHALL BE MOUNTED 400mm (16") TO TOP A.F.F. ALL DEVICES AND CONTROLS LOCATED IN AN AREA DESIGNATED AS BARRIER-FREE SHALL BE MOUNTED BETWEEN 400mm (16") TO BOTTOM AND 1200mm (47") TO TOP ABOVE FINISHED FLOOR. HANDICAP PUSH BUTTONS TO BE MOUNTED AT 235mm (9") TO CENTER A.F.F. RECEPTACLES ON OPPOSITE SIDES OF A WALL SHALL BE STAGGERED. DO NOT MOUNT BACK TO BACK.
9. **WARRANTY**
THE ELECTRICAL SUB-CONTRACTOR SHALL WARRANT THE SATISFACTORY OPERATION OF ALL WORK AND MATERIALS INCLUDED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATION FOR A PERIOD OF ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE COMPLETE BUILDING.
10. **AS-BUILT DRAWINGS**
SUBMIT ONE SET OF CORRECTED 'AS-BUILT' DRAWINGS OR CORRECTED DRAWINGS IN DWG FORMAT TO THE CITY OF WINNIPEG. CONFIRM REQUIREMENTS PRIOR TO COMPLETION.
11. **CERTIFICATE OF APPROVAL**
UPON COMPLETION AND BEFORE FINAL PAYMENT IS MADE, PRESENT TO THE CONTRACT ADMINISTRATOR A CERTIFICATE OF APPROVAL OR VERIFICATION FOR ALL ELECTRICAL WORK FROM THE INSPECTION DEPARTMENT HAVING JURISDICTION.

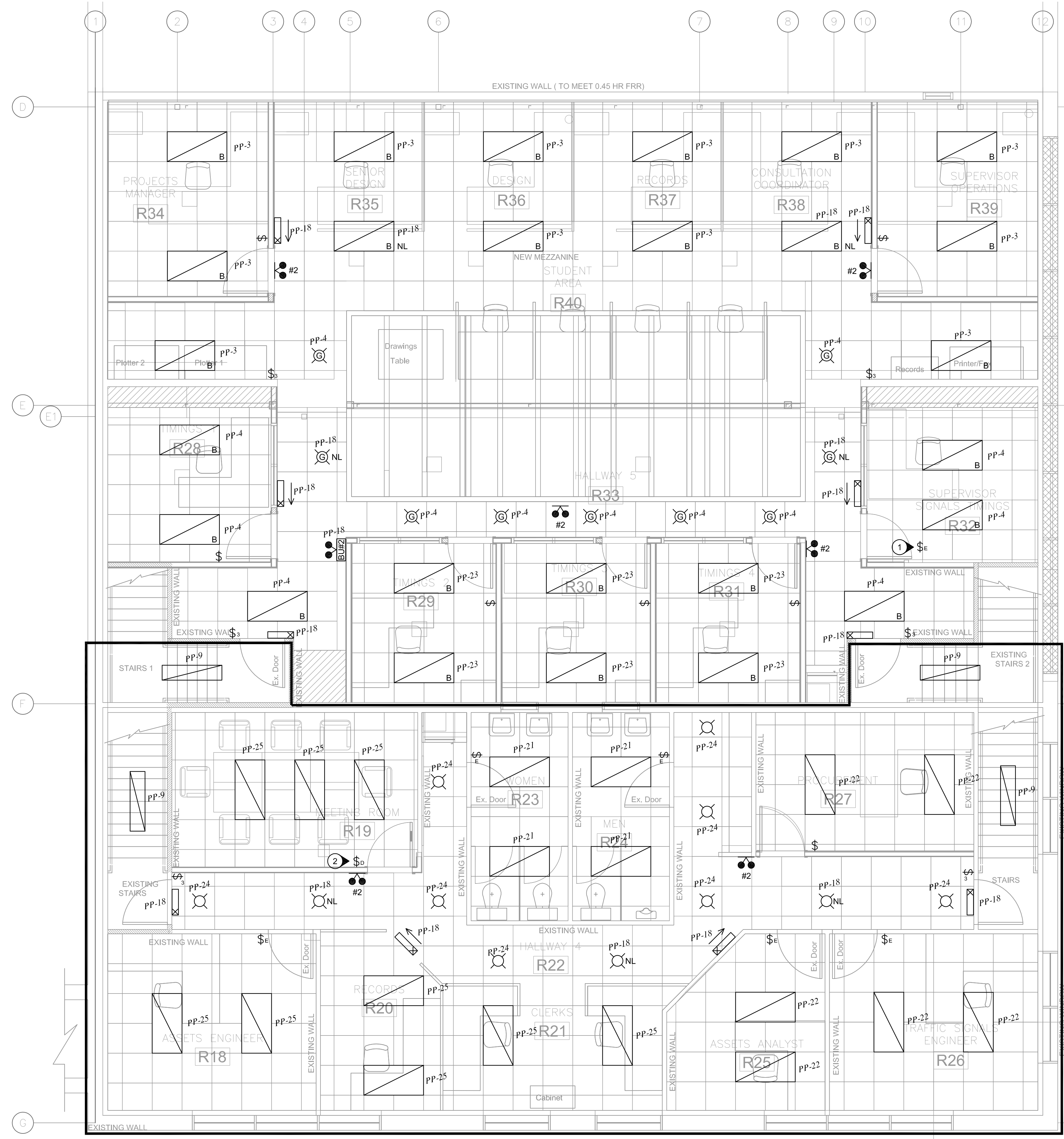
SYMBOL SCHEDULE	
	DUPLEX RECEPTACLE
	GF DENOTES GF RECEPTACLE
	20A DENOTES 20A RECEPTACLE
	X4 DENOTES 4 DEVICES
	240V RECEPTACLE
	R DENOTES RANGE RECEPTACLE
	D DENOTES DRYER RECEPTACLE
	4-PLEX RECEPTACLE
	SWITCH
	3 DENOTES 3-WAY
	D DENOTES DIMMER SWITCH
	OS DENOTES OCCUPANCY SENSOR
	GANGED SWITCH
	LINES DENOTE NUMBER OF SWITCHES
	CEILING-MOUNT OCCUPANCY SENSOR
	DATA JACK
	X4 DENOTES 4 DEVICES
	TELEPHONE/DATA JACK
	X2 DENOTES 2 DEVICES
	CO ALARM - KIDDE SILHOUETTE OR EQUIVALENT
	POWER DOOR OPERATOR
	HANDICAP PUSH BUTTON
	CARD READER
	THERMOSTAT
	ELECTRICAL CONNECTION
	CEILING LUMINAIRE
	WALL LUMINAIRE
	LINEAR LUMINAIRE
	E DENOTES EXISTING
	P DENOTES FLOOR PEDESTAL

1 MAIN FLOOR POWER PLAN
E-2 SCALE: 1/4" = 1' - 0"



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1	ISSUED FOR TENDER	12 JUN 2015	JJD
1	ISSUED FOR CONSTRUCTION	1 JUN 2015	JJD
NO	REVISION	DATE	BY
Project: TRANSPORTATION MANAGEMENT CENTRE RENOVATIONS			
821 ELGIN AVE., WINNIPEG, MANITOBA			
Sheet Title:	MAIN FLOOR POWER PLAN SINGLE LINE DIAGRAM SYMBOL SCHEDULE ELECTRICAL SPECIFICATIONS		
Date:	1 JUN 2015	Sheet No.:	E-2/R-2
By:	TD	Project No.:	14-131



DRAWING NOTES:

- ① RELOCATE SWITCH AS NECESSARY TO MAKE IT READILY ACCESSIBLE WITH NEW ROOM CONFIGURATION.
- ② ENSURE DIMMER IS RATED FOR ITS INTENDED LOAD.

GENERAL NOTES:

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- B. UNLESS SHOWN ON DRAWINGS, EXISTING LIGHTING AND SWITCHING TO REMAIN.
- C. ENSURE THAT ALL EXISTING FLUORESCENT LIGHTS ARE UPGRADED TO T-8'S. PROVIDE NECESSARY STICKERS SHOWING REQUIRED INFORMATION. REPAIR ANY DAMAGED SOCKETS AND LENSES.
- D. ENSURE THAT EMERGENCY AND EXIT LIGHTS ARE ON LOCAL NIGHT LIGHT CCT.

LIGHTS AND SWITCHES IN THIS AREA ARE EXISTING. RE-LOCATE AS NECESSARY TO ACCOMMODATE CHANGES IN LAY-OUT. ENSURE THAT EMERGENCY LIGHTING IS ON LOCAL LIGHTING CIRCUIT.



APCCM
 Certificate of Authorization
 Jorey Electric Ltd.
 No. 4600 Date: 12 Jun 2015

1 SECOND FLOOR LIGHTING PLAN
 E-3 SCALE: 1/4" = 1'-0"

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Project: TRANSPORTATION MANAGEMENT CENTRE RENOVATIONS
 821 ELGIN AVE., WINNIPEG, MANITOBA

Sheet Title: SECOND FLOOR LIGHTING PLAN

Date: 1 JUN 2015	Sheet No.:
By: TD	E-3/R-1
Project No.:	14-131