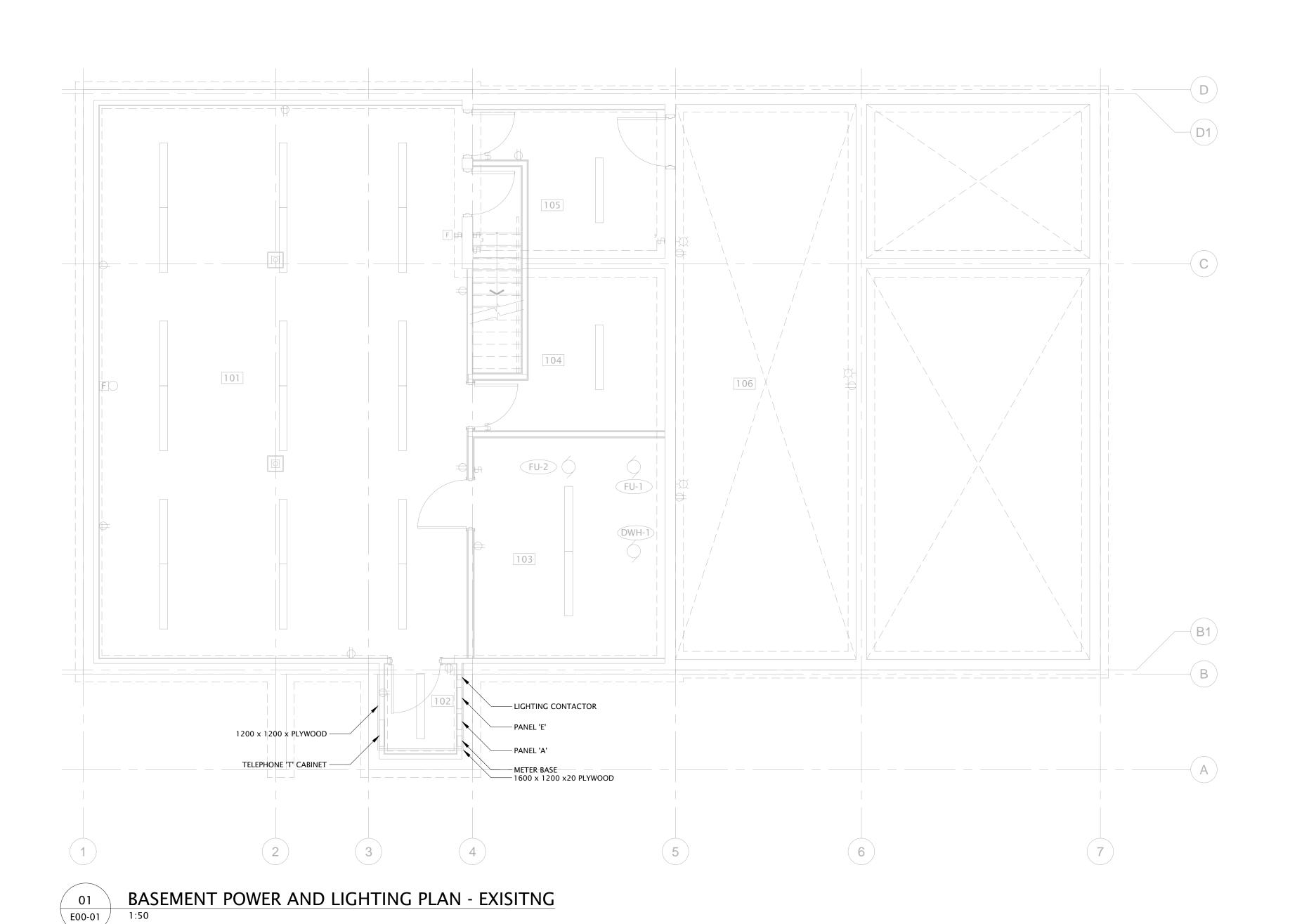
			LEGEND	OF SYMBO	LS		OCT 2014
	LIGHTING		MECHANICAL		COMMUNICATION SYSTEMS		FIRE ALARM
Ø	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	$\bigcirc$	MOTOR	•	VOICE OUTLET	<b>⊗</b> <sup>A</sup>	SMOKE ALARM
¤	SURFACE LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	FD()	MOTOR C/W DISCONNECT SWITCH	Y	COMBINATION VOICE/DATA OUTLET	200	FIXED HIGH TEMPERATURE 200°F HEAT DETECTOR (88°C)
Ŗ	WALL LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE		FUSED KNIFE SWITCH		SECURITY SYSTEMS	135	FIXED HIGH TEMPERATURE 135°F HEAT DETECTOR (58°C)
	RECESSED FLUORESCENT LUMINAIRE	XXX	MOTOR IDENTIFICATION TAG (REFER TO MECHANICAL SCHEDULE)	•	PUSH BUTTON	F	FIRE ALARM BELL
	FLUORESCENT STRIP LUMINAIRE		POWER	Н	MAGNETIC DOOR HOLD OPEN	F◀	FIRE ALARM COMBINATION HORN AND STROBE
	EMERGENCY POWER BATTERY PACK C/W LIGHTING HEADS	<b>b</b>	SINGLE/SPECIAL PURPOSE RECEPTACLE	<u>T</u> —	THERMOSTAT	F	FIRE ALARM BOX
$\triangleleft$	SINGLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT		DUPLEX RECEPTACLE	(H)-	HUMIDISTAT		
$\triangleleft$	SINGLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT		GROUND FAULT RECEPTACLE				
5 5 5	SWITCH - SINGLE, TWO, AND THREE GANG	J	CEILING MOUNTED JUNCTION/SLAB BOX				
<b>□</b> 3	SWITCH - 3 WAY	J	FLOOR MOUNTED JUNCTION/SLAB BOX				
Р	PHOTO ELECTRIC CELL						



LIST OF DAWINGS		
Sheet Number	Sheet Title	
E00-01	BASEMENT POWER AND LIGHTING PLAN - EXISITNG	
E01-00	MAIN FLOOR POWER AND LIGHTING PLAN - DEMOLITION	
E02-00	NEW MAIN FLOOR POWER AND LIGHTING PLAN	
F03-00	FLECTRICAL DETAILS & SPECIFICATIONS	

### **GENERAL NOTES:**

- 1. REFER TO MAIN FLOOR PLAN POWER & LIGHTING PLAN ON DRAWING E02-00 FOR NEW LAYOUTS. ALL ELECTRICAL DEVICES IN THE BASEMENT ARE EXISTING TO REMAIN.
- 2. ELECTRICAL DEVICES DENOTED WITH AN 'R' REPRESENTS ITEMS TO BE REMOVED.
- 3. ELECTRICAL CONTRACTOR TO VERIFY ALL WIRING AND CONNECTIONS IN ELECTRICAL PANEL AND UPDATE THE PANEL SCHEDULE FOR EACH PANEL. THE PANEL SCHEDULE SHOULD INCLUDE BREAKER SIZE AND POLES, LOAD TYPE AND ESTIMATED LOAD POWER.
- 4. CONTRACTOR TO VERIFY THE LOCATION OF ALL ELECTRICAL EQUIPMENT INCLUDING ALL LIGHTING FIXTURES, POWER AND TELECOM RECEPTACLES, SECURITY AND DOOR HARDWARE, WHETHER OR NOT SHOWN ON THIS DRAWING PACKAGE.
- CONTRACTOR TO VERIFY CONNECTIONS ON ALL POWER RECEPTACLES (INCLUDING NEW OR EXISTING), LABEL THEM ALL AND REPLACE IF NOT WORKING.
- 6. ALL LIGHTING SWITCHES TO BE VERIFIED AND REPLACED IF NEEDED.

DATE	ISSUED FOR	REV
2016-10-28	ISSUED for CLIENT REVIEW	Α
2018-05-23	ISSUED for CLIENT REVIEW	В

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# Project Component CONSTRUCT

CONSTRUCTION DRAWINGS
Keyplan

Consultants
Civil: ARROW ENGINEERING
Landscape: N/A

Architectural: NORR ARCHITECTS ENGINEERS PLANNERS
Structural: NORR ARCHITECTS ENGINEERS PLANNERS
Mechanical: NORR ARCHITECTS ENGINEERS PLANNERS
Electrical: NORR ARCHITECTS ENGINEERS PLANNERS

Seal(s)

# NORR

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NORR ARCHITECTS ENGINEERS PLANNERS
A Partnership of Limited Companies
Poon McKenzie Architects (Alberta) Inc. Poon McKenzie Holdings Inc.

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Project Manager	Drawn
D.HIDER	A.MOHAMMADZADEH
Project Leader	Checked
D.HIDER	D.HIDER

ROYAL CANADIAN MOUNTED POLICE K DIVISION

CONSORT DETACHMENT

Project
DETACHMENT
RENOVATIONS
CONSORT, ALBERTA

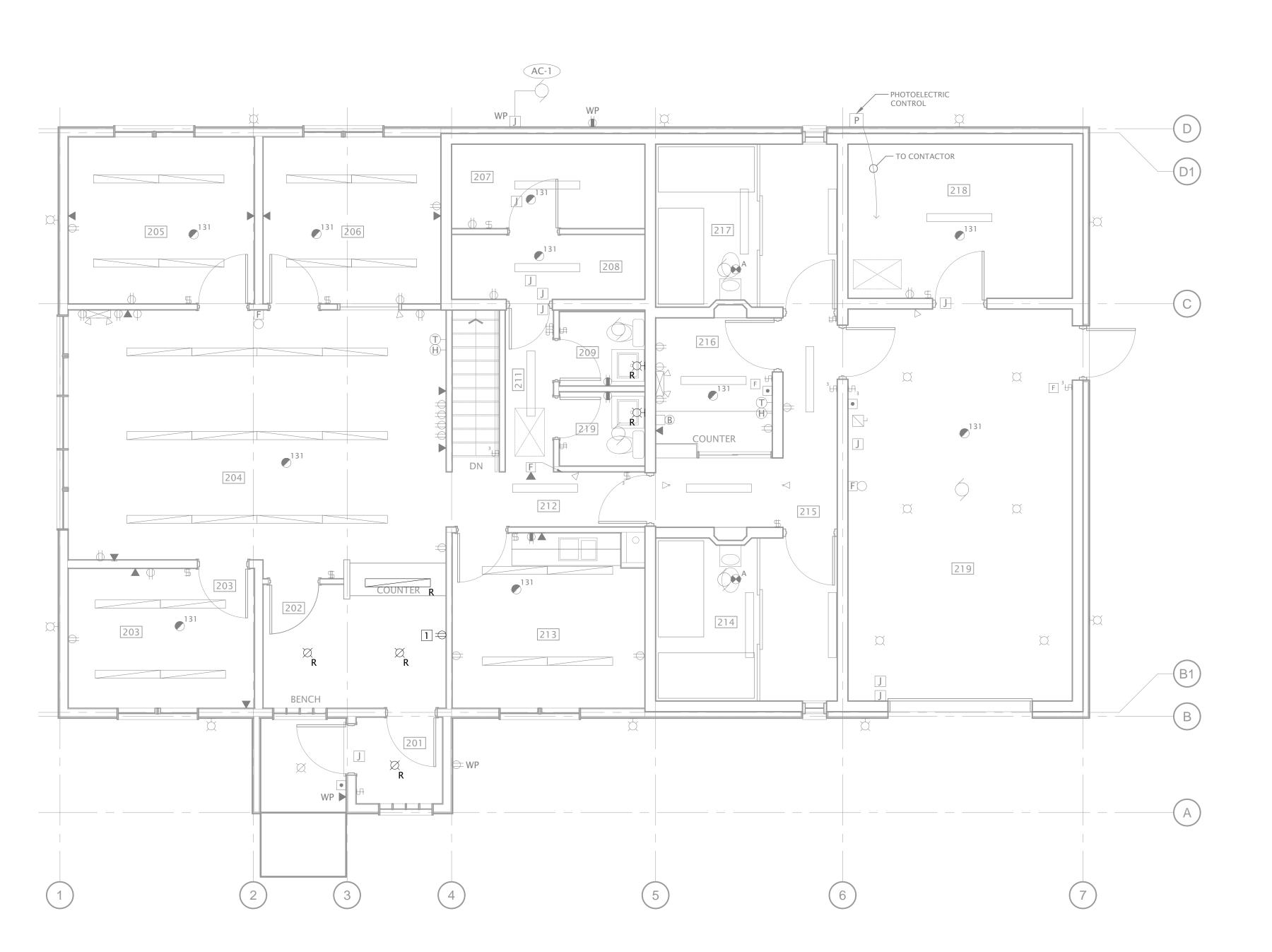
BASEMENT FLOOR PLAN POWER & LIGHTING PLAN

Check Scale (may be photo reduced)
0 1inch

Project No. NCCA-16-0157

Drawing No.

E00-01



MAIN FLOOR POWER AND LIGHTING PLAN - DEMOLITION E01-00

# **GENERAL NOTES:**

- REFER TO MAIN FLOOR PLAN POWER & LIGHTING PLAN ON DRAWING E02-00 FOR NEW LAYOUTS. ALL ELECTRICAL DEVICES IN THE BASEMENT ARE EXISTING TO REMAIN.
- ELECTRICAL DEVICES DENOTED WITH AN 'R' REPRESENTS ITEMS TO BE REMOVED.
- ELECTRICAL CONTRACTOR TO VERIFY ALL WIRING AND CONNECTIONS IN ELECTRICAL PANEL AND UPDATE THE PANEL SCHEDULE FOR EACH PANEL. THE PANEL SCHEDULE SHOULD INCLUDE BREAKER SIZE AND POLES, LOAD TYPE AND ESTIMATED LOAD POWER.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL ELECTRICAL EQUIPMENT INCLUDING ALL LIGHTING FIXTURES, POWER AND TELECOM RECEPTACLES, SECURITY AND DOOR HARDWARE, WHETHER OR NOT SHOWN ON THIS DRAWING PACKAGE.
- CONTRACTOR TO VERIFY CONNECTIONS ON ALL POWER RECEPTACLES (INCLUDING NEW OR EXISTING), LABEL THEM ALL AND REPLACE IF NOT WORKING.
- ALL LIGHTING SWITCHES TO BE VERIFIED AND REPLACED IF NEEDED.

## **REFERRAL NOTES:**

1 ALL WALL MOUNTED ELECTRICAL TO BE ADJUSTED TO **NEW WALL** 

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Project Component CONSTRUCTION DRAWINGS Keyplan

Consultants

Civil: ARROW ENGINEERING Landscape: N/A

Architectural: NORR ARCHITECTS ENGINEERS PLANNERS Structural: NORR ARCHITECTS ENGINEERS PLANNERS Mechanical: NORR ARCHITECTS ENGINEERS PLANNERS Electrical: NORR ARCHITECTS ENGINEERS PLANNERS

# NORR

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Project Manager A.MOHAMMADZADEH D.HIDER Project Leader Checked D.HIDER D.HIDER

ROYAL CANADIAN MOUNTED POLICE K DIVISION

CONSORT DETACHMENT

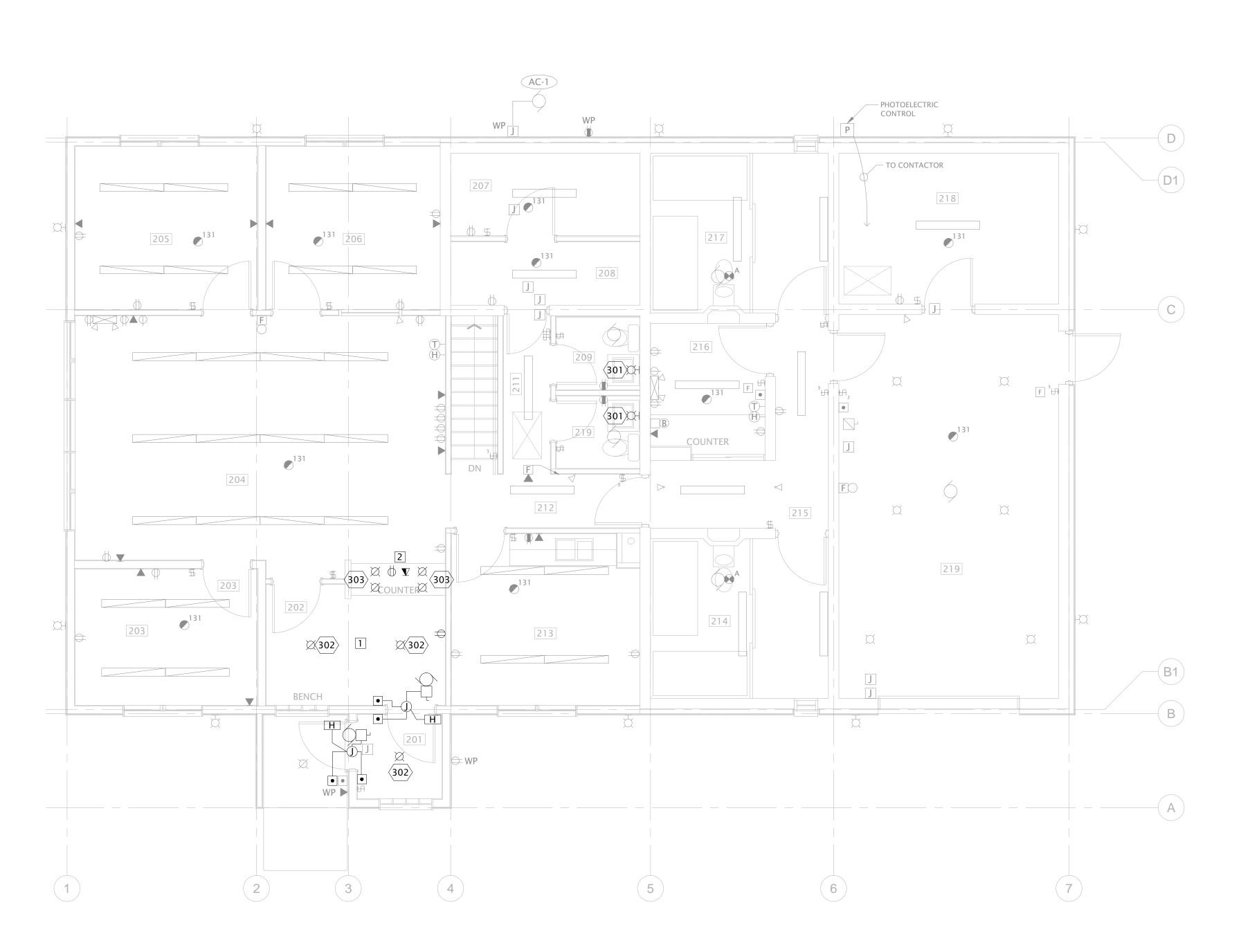
DETACHMENT RENOVATIONS CONSORT, ALBERTA

MÅIN FLOOR PLAN POWER & LIGHTING **DEMOLITION PLAN** 

Check Scale (may be photo reduced) 0 1inch

NCCA-16-0157 Drawing No.

E01-00



NEW MAIN FLOOR POWER AND LIGHTING PLAN E02-00

### **GENERAL NOTES:**

- REFER TO MAIN FLOOR PLAN POWER & LIGHTING PLAN ON DRAWING E02-00 FOR NEW LAYOUTS. ALL ELECTRICAL DEVICES IN THE BASEMENT ARE EXISTING TO REMAIN.
- ELECTRICAL CONTRACTOR TO VERIFY ALL WIRING AND CONNECTIONS IN ELECTRICAL PANEL AND UPDATE THE PANEL SCHEDULE FOR EACH PANEL. THE PANEL SCHEDULE SHOULD INCLUDE BREAKER SIZE AND POLES, LOAD TYPE AND ESTIMATED LOAD POWER.
- CONTRACTOR TO VERIFY THE LOCATION OF ALL ELECTRICAL EQUIPMENT INCLUDING ALL LIGHTING FIXTURES, POWER AND TELECOM RECEPTACLES, SECURITY AND DOOR HARDWARE, WHETHER OR NOT SHOWN ON THIS DRAWING PACKAGE.
- CONTRACTOR TO VERIFY CONNECTIONS ON ALL POWER RECEPTACLES (INCLUDING NEW OR EXISTING), LABEL THEM ALL AND REPLACE IF NOT WORKING.
- 5. ALL LIGHTING SWITCHES TO BE VERIFIED AND REPLACED IF NEEDED.
- 6. ALL NEW LIGHTING FIXTURES OR POWER RECEPTACLES TO BE CONNECTED TO THE EXISTING CIRCUIT. CONTRACTOR TO VERIFY THE LOAD.
- THE MAIN ENTRANCE VESTIBULE DOOR OPERATOR TO BE CONNECTED TO THE BUILDING SECURITY SYSTEM AND THE DOOR TO BE LOCKED AFTER HOURS.
- 8. ELECTRICAL CONTRACTOR SHALL COMPLETE A DETAILED SURVEY OF ALL ELECTRICAL COMPONENTS ON THE EXTERIOR AND INTERIOR OF BUILDING AND MARKUP ON A SET OF AS-BUILT DRAWINGS. MARKUPS WILL INCLUDE CIRCUIT DESIGNATIONS.
- 9. MAIN ENTRANCE AND VESTIBULE HANDICAP PUSHBUTTON TO BE MS SEDCO PRODUCT 59R4-HSS (STAINLESS STEEL WITH BLUE PAINT FILLED LEGEND) OR APPROVED EQUAL
- 10. ELECTRICAL CONTRACTOR TO PROVIDE NEW 15A-1P CIRCUITS FOR EACH NEW DOOR OPERATOR.
- 11. CATSE CABLE TO BE USED FOR NEW TELECOMMUNICATION

### REFERRAL NOTES:

- 1 ALL WALL MOUNTED ELECTRICAL TO BE ADJUSTED TO **NEW WALL**
- COORDINATE ELECTRICAL DEVICES WITH ARCHITECTURAL MILLWORK.

**ISSUED FOR** 2016-10-28 ISSUED for CLIENT REVIEW 2018-05-23 ISSUED for CLIENT REVIEW

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Project Component

CONSTRUCTION DRAWINGS

Consultants

Civil: ARROW ENGINEERING

Landscape: N/A Architectural: NORR ARCHITECTS ENGINEERS PLANNERS Structural: NORR ARCHITECTS ENGINEERS PLANNERS

Mechanical: NORR ARCHITECTS ENGINEERS PLANNERS Electrical: NORR ARCHITECTS ENGINEERS PLANNERS

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Project Manager D.HIDER A.MOHAMMADZADEH Project Leader Checked D.HIDER D.HIDER

ROYAL CANADIAN MOUNTED POLICE

K DIVISION CONSORT DETACHMENT

DETACHMENT RENOVATIONS CONSORT, ALBERTA

MÅIN FLOOR PLAN POWER & LIGHTING PLAN

Check Scale (may be photo reduced)
0 1inch

NCCA-16-0157

Drawing No.

E02-00

#### GENERAL

- THE GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS UNLESS SPECIFICALLY NOTED OTHERWISE TO COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- 1.2. THE SCOPE OF WORK IS AS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.

### 2. STANDARD OF MATERIAL AND WORKMANSHIP

- ALL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY NOTED ON DRAWINGS AND BE OF THE QUALITY SPECIFIED AND SHALL CONFORM TO THE STANDARDS OF THE CANADIAN STANDARDS ASSOCIATION. WHERE EQUIPMENT OR MATERIALS ARE SPECIFIED BY TECHNICAL DESCRIPTION ONLY, THEY SHALL BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
- ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. ELECTRICAL CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS, ALL SATISFACTORY TO THE ENGINEER, ON THE JOB DURING THE PROGRESS OF THE WORK.
- WORKMANSHIP SHALL BE OF THE HIGHEST STANDARDS THROUGHOUT AND SHALL BE MINIMUM OF THE CURRENT TRADE PRACTICES FOR ELECTRICAL INSTALLATIONS IN THIS BUILDING.

## 3. UNIFORMITY OF EQUIPMENT

- UNLESS OTHERWISE SPECIFICALLY CALLED FOR IN THE SPECIFICATIONS, UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.
- SPECIFICATIONS, UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.
- 3.2.1. SPECIFICATIONS, UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.

### 4. DRAWINGS AND SPECIFICATIONS

- 4.1. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, EACH TO THE OTHER, AND WHAT IS CALLED FOR BY ONE, SHALL BE BINDING AS IF CALLED FOR BY BOTH.
- SHOULD ANY DISCREPANCY APPEAR BETWEEN THE DRAWINGS AND SPECIFICATIONS WHICH LEAVES THE ELECTRICAL CONTRACTOR IN DOUBT AS TO THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. A RULING SHALL BE OBTAINED FROM THE ENGINEER. IF THIS IS NOT DONE, IT WILL BE ASSUMED THAT THE MOST EXPENSIVE ALTERNATE HAS BEEN ALLOWED FOR.

### CODES, PERMITS AND INSPECTION

- THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE AND THE REGULATIONS OF THE CITY OF CALGARY ELECTRICAL INSPECTION
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AT THEIR EXPENSE AND DISPLAY THEM IN THE ELECTRICAL ROOM, AND COORDINATE INSPECTIONS AS REQUIRED AND OBTAIN A FINAL INSPECTION CERTIFICATE.

### 6. EXAMINATION OF THE SITE

PRIOR TO SUBMITTING THEIR TENDER, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS, WHICH SHALL AFFECT HIS TRADE. NO EXTRAS WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS THAT WOULD HAVE BEEN EVIDENT UPON A THOROUGH EXAMINATION OF THE SITE.

CLEAN UP THE ELECTRICAL CONTRACTOR AND THEIR SUB-TRADES SHALL AT ALL TIMES DURING CONSTRUCTION, KEEP

THE SITE FREE OF ALL DEBRIS, BOXES, PACKING, ETC., RESULTING FROM WORK OF THIS TRADE.

- AT THE COMPLETION OF THE WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN FINISHED CONDITION TO THE SATISFACTION OF THE ENGINEER.
- 7.3. ALL LUMINAIRES AND ELECTRICAL DEVICES SHALL BE WASHED, CLEANED OF GREASE, DIRT AND LINT AS
- ALL HANDLING OF LUMINAIRES AND LAMPS SHALL BE DONE WITH CLEAN GLOVES. TO ENSURE CLEANLINESS

# 7.5. RECYCLE PACKING MATERIAL AND OTHER SUCH ITEMS THAT CAN BE DIVERTED FROM LANDFILL.

# 8. SETTING OUT OF THE WORK

- 8.1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COSTS FOR SAME. WHERE THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, HE SHALL OBTAIN THE CLARIFICATION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 8.2. THE ELECTRICAL CONTRACTOR SHALL GIVE THE WORK THEIR PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELLING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
- WHERE ANY EQUIPMENT SUPPLIED BY THE ELECTRICAL CONTRACTOR MUST BE BUILT IN WITH THE WORK OF OTHER CONTRACTORS, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLYING OF THE EQUIPMENT TO BE BUILT IN OR MEASUREMENTS TO ALLOW NECESSARY OPENINGS TO BE LEFT SO AS NOT
- 8.4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER OR ANY OF THE OTHER TRADES BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK.

# 9. LOCATION OF OUTLETS

ENGINEER RESERVES THE RIGHT TO CHANGE LOCATION OF OUTLETS TO WITHIN 3.0 METRES OF POINTS INDICATED ON PLANS WITHOUT EXTRA CHARGE PROVIDING ELECTRICAL CONTRACTOR IS ADVISED PRIOR TO

# 10. CORING, CUTTING AND PATCHING

- THE GENERAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATION. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT THE CONSENT OF THE
- 10.2. WHERE WORK BY THE ELECTRICAL CONTRACTOR DAMAGES WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF THE TRADE
- 10.3. WHERE THE FLOOR SLAB IS DRILLED FOR CONDUIT INSTALLATION TO WALL JUNCTION BOXES OR TO FLOOR FITTINGS THE FLOOR SHALL BE DRY CORE DRILLED. AFTER CONDUIT INSTALLATION, THE OPENING SHALL BE FIRE STOPPED. (SEE SECTION "FIRE STOPPING") ELECTRICAL CONTRACTOR TO PAY FOR ALL ASSOCIATED X-RAY COSTS, STRUCTURAL ENGINEER REVIEW, ETC.

# 11. ACCESS DOORS

- 11.1. NUMBER OF ACCESS DOORS TO BE KEPT TO AN ABSOLUTE MINIMUM. DOOR LOCATIONS WILL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLATION.
- 11.2. WHERE ACCESS IS REQUIRED TO PULLBOXES AND JUNCTION BOXES, THESE BOXES ARE TO BE LOCATED IN
- REMOVABLE TYPE CEILING AREAS WHERE POSSIBLE OR ADJACENT TO RECESSED LUMINAIRES. 11.3. WHERE IT IS ABSOLUTELY IMPOSSIBLE TO SERVICE CERTAIN EQUIPMENT THROUGH REMOVABLE TYPE CEILINGS OR RECESSED LUMINAIRES AND WHERE SPECIAL PERMISSION HAS BEEN OBTAINED FROM THE ENGINEER, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR SERVICING
- 11.4. ACCESS DOORS TO BE HELD CLOSED WITH CAPTIVE TYPE STUDS. ACCESS PANELS TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COATED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH AS REQUESTED BY THE ARCHITECT.
- 11.5. WHERE ACCESS PANELS WILL BE USED, PROPER SHOP DRAWINGS ARE TO BE SUBMITTED FOR APPROVAL, PRIOR TO INSTALLATION.

# 12. PAINTING AND FINISHES

- 12.1. ALL ELECTRICAL FITTINGS, SUPPORTS, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS, ETC., SHALL HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANT PRIMER.
- 12.2. ALL PANELS OR SIMILAR FACTORY FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATIONS SHALL BE TOUCHED UP WITH MATCHING SPRAY OR DRY LACQUER AND IF REQUIRED TO PROVIDE SATISFACTORY JOB SHALL BE COMPLETELY REFINISHED.

# 13. MOUNTING HEIGHTS

INSTALL ELECTRICAL EQUIPMENT AT THE FOLLOWING HEIGHTS UNLESS OTHERWISE INDICATED (MEASUREMENTS ARE TO CENTER OF DEVICE BOX):

LIGHT SWITCHES, DIMMERS; 1200MM GENERAL WALL RECEPTACLES; 300MM

RECEPTACLES ABOVE COUNTERS AND BACK SPLASH; 175MM

(REFER TO DETAILS ON ARCHITECTURAL) DOORBELL / PUSHBUTTON;

13.2. CONFIRM ALL OTHER EQUIPMENT HEIGHTS IN WRITING.

AND RETURNED FOR RESUBMISSION.

ARCHITECTURAL DRAWINGS SUPERSEDE HEIGHTS AND LOCATIONS INDICATE ON ELECTRICAL DRAWINGS AND SPECIFICATIONS.

AND CABLING.

- 14.1. THE ELECTRICAL CONTRACTOR MUST REVIEW AND STAMP ACCEPTABLE ALL SHOP DRAWINGS PRIOR TO
- SUBMITTING TO THE ENGINEER. 14.2. ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ONE (1) SET OF ELECTRONIC
- SHOP DRAWINGS IN PDF FORMAT INCLUDING BUT NOT LIMITED TO DISTRIBUTION, LUMINAIRES, EXIT SIGNS, OCCUPANCY SENSORS, BATTERY PACKS, FIRE ALARM EQUIPMENT AND TELECOMMUNICATIONS EQUIPMENT
- 14.3. ENGINEER SHALL BE ALLOWED MINIMUM 5 BUSINESS DAYS TO RETURN REVIEWED SHOP DRAWINGS. 14.4. SCANNED SHOP DRAWINGS MUST BE LEGIBLE. SHOP DRAWINGS WHICH ARE UNCLEAR WILL BE REJECTED
- 14.5. SHOP DRAWING SHALL BE SPECIFIC TO THIS PROJECT ONLY. GENERIC DRAWINGS WILL NOT BE ACCEPTED. INDICATING ARROWS SHALL HIGHLIGHT THE PRODUCT FOR APPROVAL. GENERIC DRAWINGS, DRAWINGS WITHOUT INDICATING ARROWS AND DRAWINGS WITHOUT CONTRACTOR REVIEWED STAMP WILL BE RETURNED REJECTED FOR RESUBMISSION.
- 14.6. THE ENGINEER'S REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OR SUPPLIER FROM THEIR RESPONSIBILITY FOR ERRORS, PROPER FITTING, AND CONSTRUCTION OF THE WORK AND FURNISHING OF MATERIALS. THE REVIEW SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS.
- 14.7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.
- 14.8. ANY WORK PERFORMED PRIOR TO THE RETURN OF REVIEWED SHOP DRAWINGS IS DONE AT THE RISK OF THE CONTRACTOR.

# 15. RECORDS PLANS

- 15.1. THE ENGINEER WILL FURNISH TO THE ELECTRICAL CONTRACTOR ONE SET OF WHITE PRINTS TO BE USED FOR RECORD WORK AS ACTUALLY INSTALLED. ELECTRICAL CONTRACTOR SHALL ACCURATELY RECORD ON THIS SET OF PLANS, DAY BY DAY, ALL OUTLETS, CONDUIT, LUMINAIRES EQUIPMENT BREAKER CHANGES IN PANELS, ETC. AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE CONTRACT WORK SHALL BE
- 15.2. AS-BUILT DRAWINGS SHALL BE CLEARLY MARKED IN RED INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, JOB CONDITIONS, ETC.
- 15.3. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE RELEASED UNTIL AS-BUILT DRAWINGS ARE RECEIVED BY THE ENGINEER. AS-BUILT DRAWINGS ARE TO BE TURNED OVER TO THE ENGINEER AT TIME OF FINAL

### 16. EQUIPMENT IDENTIFICATION

- 16.1. CLEARLY IDENTIFY ALL ELECTRICAL EQUIPMENT USING PRINTED PTOUCH LABELS OR LAMACOIDS. HAND-WRITTEN LABELS ARE UNACCEPTABLE.
- 16.2. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL HAVE A LAMACOID NAMEPLATE FASTENED TO THE OUTSIDE FRONT OF THE EQUIPMENT.
- 16.3. EQUIPMENT TAG NUMBER SHALL CONTAIN A MINIMUM OF; THE EQUIPMENT NAME, VOLTAGE, PHASE, WIRE (3 OR 4), AMPERAGE, SOURCE: XXXX, LOAD: XXXX. SUBMIT PROPOSED TAGGING FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION.
- 16.4. PROVIDE TYPEWRITTEN CIRCUIT INDEXES FOR ALL PANELS.
- 16.5. JUNCTION BOXES SHALL ALL BE LABELED INDICATING THE SYSTEM AND OR CIRCUITS CONTAINED WITHIN.
- 16.6. ALL RECEPTACLES SHALL BE LABELED WITH THE CIRCUIT NUMBERS AND PANEL IDENTIFICATION. UTILIZE P-TOUCH ADHESIVE LABELS COMPLETE WITH A MINIMUM OF 5 LETTERING. I.E. "PNL-CCT."
- 16.7. ALL COMMUNICATIONS AND OTHER SYSTEMS CABLES AND DEVICES ARE TO BE IDENTIFIED AS PER THE EIA/TIA 606 STANDARDS. CONFIRM PROTOCOL WITH OWNER OR ENGINEER PRIOR TO COMMENCEMENT OF
- 16.8. ALL LUMINAIRES CONNECTED TO EMERGENCY CIRCUITS TO BE LABELLED WITH P-TOUCH LABEL INDICATING PANEL AND CIRCUIT DESIGNATION. LABEL TO BE VISIBLE FROM BELOW AFTER INSTALLATION.

- 17.1. ALL PORTIONS OF THE ELECTRICAL WORK SHALL BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.
- 17.2. BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS. RESULTS OF SUCH TESTS SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE AND SHALL BE TO THE SATISFACTION OF THE AUTHORIZED INSPECTION AGENCY AND THE ENGINEER.
- 17.3. SUBMIT ALL TEST RESULTS TO THE ENGINEER FOR APPROVAL
- 17.4. ANY TEST RESULTS THAT DO NOT MEET THE MINIMUM REQUIREMENTS OF THE MANUFACTURER, CANADIAN ELECTRICAL CODE, AUTHORIZED INSPECTION AGENCY AND THE ENGINEER SHALL BE REPAIRED IN A METHOD APPROVED BY THE ENGINEER AND RETESTED AT THE EXPENSE OF THE CONTRACTOR.
- 17.5. UPON COMPLETION OF THE WORK AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK THE LOAD BALANCE OF ALL FEEDERS AND AT DISTRIBUTION CENTER, PANELS, ETC. THE TESTS SHALL BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS IN THE TENANT AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15 PERCENT, RECONNECT CIRCUITS TO BALANCE THE LOAD.

# 18. GUARANTEE/WARRANTY

SCHEDULE) FOR THIS WORK.

- 18.1. THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE FROM ENGINEER (C2
- DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
- 18.3. THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.

18.2. THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH

18.4. ELECTRICAL CONTRACTOR TO ISSUE LETTER STIPULATING WARRANTY PERIOD DATES FOR ALL EQUIPMENT.

# 19. BUILDING WIRING

- 19.1. ALL WIRING SHALL BE COPPER NMD-90 UNLESS INDICATED OTHERWISE ON DRAWINGS.
- 19.2. NO WIRE SMALLER THAN NO. 14 AWG GAUGE SHALL BE USED FOR BRANCH CIRCUIT WIRING.
- 19.3. CONDUIT TO BE SIZED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.
- 19.4. ALUMINUM CONDUCTORS MAY ONLY BE USED WHERE INDICATED ON DRAWINGS. APPLY ZINC JOINT COMPOUND ON ALL ALUMINUM CONDUCTORS PRIOR TO INSTALLATION OF CONNECTORS OR TERMINATING
- 19.5. VOLTAGE DROP FOR WIRING SHALL MEET REQUIREMENTS AS LAID OUT IN THE CANADIAN ELECTRICAL CODE. GENERALLY MAXIMUM BRANCH CIRCUIT CONDUCTOR DISTANCES (120VAC) TO MAINTAIN MAX. 3% VOLTAGE
  - 19.5.1. 15A-1P BREAKER #14AWG WIRING 80 FEET (24 METRES)
  - 19.5.2. 15A-1P BREAKER #12AWG WIRING 125 FEET (39 METRES)
  - 19.5.3. 20A-1P BREAKER #12AWG WIRING 60 FEET (18 METRES)
- 19.5.4. 20A-1P BREAKER #10AWG WIRING 95 FEET (29 METRES)

# 20.1.1. N/A

# 21. WIRING DEVICES

- 21.1. BOXES, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PRESSED SHEET STEEL GALVANIZED TO CSA STANDARDS.
- 21.2. ALL OUTLETS FOR FLUSH WALL-MOUNTING SWITCHES, RECEPTACLES, TELEPHONE AND LV OUTLETS SHALL BE 2104, 1004 BOX OR 4" SQUARE BOX WITH APPROPRIATE PLASTER COVER FOR SINGLE, 2-GANG, 3-GANG OR 4-GANG OUTLETS. OUTLET BOX SHALL FOLLOW CEC FOR ALLOWABLE CONDUCTOR FILL.
- 21.3. FLUSH MOUNTING VOICE/DATA WALL OUTLETS SHALL BE APPROPRIATE PLASTER, EXTENSION RING OR APPROVED LV MOUNTING RING.
- 21.4. USE A SINGLE COVER PLATE FOR RECEPTACLE OUTLET BOXED WHERE SHOWN GANGED.
- 21.5. GANG BOXES AND WIRING DEVICES ARE GROUPED. ELECTRO-GALVANIZED STEEL MULTI GANG BOXED SHALL BE USED WHERE MORE THAN 2 DEVICES ARE GANGED TOGETHER.

- 21.6. SECTIONAL TYPE BOXES OR HANDY BOXES SHALL NOT BE USED.
- 21.7. RECEPTACLES SHALL BE WHITE DECORA.
- 21.8. SPECIAL RECEPTACLES WILL BE AS SHOWN ON THE DRAWINGS.
- 21.9. RECEPTACLES TO BE OF SPECIFICATION GRADE AND OF ONE MANUFACTURER. ACCEPTABLE MANUFACTURES ARE LEVITON, THOMAS AND BETTS, COOPER WIRING DEVICES.
- 21.10. PLATES FOR ALL FLUSH MOUNTING DEVICES SHALL BE WHITE DECORA

DIRECTLY AND INDEPENDENTLY FROM THE CONCRETE SLAB.

# 22. SUPPORTING DEVICES

- 22.1. INSTALL TO MAINTAIN HEADROOM, NEAT MECHANICAL APPEARANCE AND TO SUPPORT EQUIPMENT LOADS
- 22.2. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS MAY BE USED IN DRILLED HOLES. WOOD OR FIBRE PLUGS NOT PERMITTED.
- 22.3. ALL ELECTRICAL DISTRIBUTION, WHICH IS MOUNTED ABOVE THE SUSPENDED CEILING, SHALL BE SUPPORTED
- 22.4. THE USE OF ANY PART OF THE CEILING SUSPENSION SYSTEM AS A SUPPORT OR FOUNDATION FOR THE
- SUSPENSION OF ELECTRICAL EQUIPMENT IS FORBIDDEN. 22.5. SUPPORT HANGERS AND OTHER TRADES TO SUPPORT NON-ELECTRICAL SERVICES OR DEVICES SHALL NOT
- USE TRAYS INSTALLED BY THE ELECTRICAL CONTRACTOR. 22.6. ALL EQUIPMENT THAT MAY TRANSMIT VIBRATION TO THE BUILDING STRUCTURES IS TO BE INSTALLED USING SUITABLE METHODS TO PREVENT THE TRANSMISSION OF THE VIBRATIONS TO THE BUILDING STRUCTURE.

- 23.1. SUPPLY AND INSTALL COMPLETE GROUNDING SYSTEM AS INDICATED AND AS REQUIRED BY CANADIAN ELECTRICAL CODE AND ELECTRICAL INSPECTION DEPARTMENT.
- 23.2. REFER TO GROUNDING DETAILS ON DRAWINGS FOR ADDITIONAL INFORMATION.
- 23.3. ALL COMPONENTS SHALL BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THE GROUNDING STUDS AND BUSHINGS SHALL BE USED. ENSURE THAT ALL RACEWAYS, TERMINAL PANELS, ETC., FOR TELEPHONE, LOW VOLTAGE, WATER, GAS ARE SECURELY AND ADEQUATELY GROUNDED.

### 28. POWER DISTRIBUTION

- 28.1. PROVIDE NEW EQUIPMENT AS INDICATED ON THE DRAWINGS.
- 28.2. ALL EQUIPMENT TO BE CSA APPROVED.
- 28.3. NEW BRANCH CIRCUIT BREAKERS AND WIRING TO BE INSTALLED UNDER THIS CONTRACT.
- 28.4. PROVIDE TYPEWRITTEN DIRECTORY OF PANEL LOADS AND AFFIX TO PANELBOARD DOORS.
- 28.5. PANELBOARDS SHALL BE COMPOSED OF THE NUMBER OF CIRCUIT BREAKERS WITH POLES AND TRIP RATINGS AS LISTED IN THE SCHEDULES. WHERE SPACE ONLY IS CALLED FOR, PROVIDE ALL MOUNTING BRACKETS, BUSBAR DRILLINGS, FILLER PLATES, ETC., TO FACILITATE INSTALLATION OF FUTURE BREAKERS.
- 28.6. WHERE EXISTING PANELBOARDS ARE SHOWN TO BE REPLACED WITH NEW, CONTRACTOR SHALL RELOCATE ALL EXISTING BRANCH CIRCUITS TO NEW PANELBOARD AND PROVIDE NEW BREAKERS FOR EXISTING AND NEW CIRCUITS.
- WHERE PANELBOARDS ARE SHOWN TO BE DOUBLE-LUGGED, CONTRACTOR SHALL PROVIDE NEW DOUBLE LUG KITS IN EXISTING AND NEW PANELBOARDS.
- 28.8. WHERE CALLED FOR, PROVIDE AN ISOLATED STANDOFF GROUND BUS FOR NEW OR EXISTING PANELBOARDS AND CONNECT BACK TO THE BUILDING GROUND WITH INSULATED #2 AWG.
- 28.9. PANELBOARDS: SHALL BE 120/208V 1Ø 3W AND COMPOSED OF THE NUMBER OF CIRCUIT BREAKERS WITH POLES AND TRIP RATINGS AS LISTED IN THE SCHEDULES. PANELS SHALL BE TIN-PLATED ALUMINUM BUSSING.
- 28.10. BREAKERS TO BE BOLT-ON TYPE AND MEET OR EXCEED THE AVAILABLE FAULT CURRENT INDICATED ON THE SINGLE LINE DIAGRAM. BREAKERS OF MULTIPLE POLE CONFIGURATIONS SHALL BE COMMON-TRIP SINGLE HANDLE. BREAKERS TO BE 3-POSITION (OPEN, TRIPPED, CLOSED).
- 28.12. INTERRUPTING CAPACITY/WITHSTAND RATINGS FOR DISTRIBUTION EQUIPMENT SHALL MEET OR EXCEED
- 29.1. SUPPLY AND INSTALLATION OF ALL LUMINAIRES SHALL FORM PART OF THIS CONTRACT.
- 29.2. SUPPLY AND INSTALLATION OF LIGHITNG CONTROLS WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 29.3. LUMINAIRES SHALL BE ADDED, RELOCATED OR REMOVED AS INDICATED.

28.11. ALL ELECTRICAL EQUIPMENT SHALL BE GREY ANSI 49 PAINTED.

LEVELS INDICATED ON SINGLE LINE DRAWINGS.

- 29.4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND REPLACING ALL DAMAGED LENSES, FAULTY BALLASTS AND PROVIDE TOUCH-UP PAINT WHERE REQUIRED. 29.5. REPLACE BURNT-OUT LAMPS FOR FLUORESCENT, INCANDESCENT, AND LOW VOLTAGE LUMINAIRES WHERE
- 29.6. ALL FLUORESCENT LUMINAIRES TO BE SUPPLIED COMPLETE WITH LAMPS AND ELECTRONIC BALLAST <10% THD, RAPID START OR PROGRAMMED START.
- 29.7. UNLESS OTHERWISE NOTED, ALL FLUORESCENT LAMPS SHALL BE STANDARD 3500K, T8 LOW MERCURY, CRI
- 29.8. INCANDESCENT LAMPS TO BE 5,000 HOURS, 130 VOLT EXTENDED SERVICE TYPE. 29.9. SPECIAL LAMPS TO BE USED WHERE INDICATED WITH THE LONGEST LIFE AVAILABLE IN EACH CATEGORY.
- 29.10. ACCEPTABLE LAMP MANUFACTURER'S: SYLVANIA, GE, PHILLIPS.

## 29.11. ACCEPTABLE BALLAST MANUFACTURER'S: GE, PHILLIPS, LUTRON. 29.12. LUMINAIRE SCHEDULE - REFER TO DRAWINGS

- 30. MECHANICAL EQUIPMENT WIRING 30.1. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECT, ETC., REQUIRED FOR
- MECHANICAL EQUIPMENT. ALL LOW VOLTAGE CONTROLS AND CONTROL WIRING WILL BE THE RESPONSIBILITY OF THE MECHANICAL TRADE AND/OR HIS CONTROL SUB-TRADE. 120V CONNECTION FOR CONTROLS CONTRACTOR SHALL BE
- PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH CONTROLS CONTRACTOR FOR LOCATION. 30.3. ELECTRICAL CONTRACTOR SHALL CONFIRM WITH THE MECHANICAL TRADE, THE SIZE, CHARACTERISTICS, AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUITS, OUTLETS, HEATERS

#### DESCRIPTION TYPE | WATTS | NO. | VOLTS MANUFACTURER MOUNTING REMARKS COOPER LIGHTING - METALUX 301 VANITY LIGHTING LED 19 120 CAT# 2SWLED-LD4-16SL-LW-UNV-L835-CD1-U WALL OR APPROVED EQUIVALENT UNO LIGHTING LED 13 302 4" VESTIBULE POTLIGHT 120 CEILING RESECCED CAT# L4-1335U-G3-90 / L400H-CLWH THE FIXTURE LOCATION TO BE UNO LIGHTING LED CEILING RESECCED | COORDINATED WITH 303 4" COUNTER POTLIGHT 120 CAT# L4-0835U-G3-90 / L400H-CLWH ARCHITECTURAL ANDMILWORK NOTES:

**LUMINAIRE SCHEDULE** 

# 31. ENGINEER'S INSPECTIONS

- 31.1. AT MINIMUM, AN INSPECTION WILL BE CARRIED OUT BY THE ENGINEER AT ROUGH-IN STAGE AND AT
- 31.2. THE ELECTRICAL CONTRACTOR SHALL ADVISE THE ENGINEER WHEN ALL WORK HAS BEEN COMPLETED

ABOVE THE SUSPENDED CEILING. FAILURE TO NOTIFY THE ENGINEER IN TIME WILL NECESSITATE THE REMOVAL OF ALL CEILING TILES FOR INSPECTION

THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL ALLOW AT LEAST 3 WORKING DAYS NOTICE OF THE INSTALLATION OF CEILING TILES.

**ISSUED FOR** 2016-10-28 ISSUED for CLIENT REVIEW 2018-05-23 ISSUED for CLIENT REVIEW

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Consultants

Civil: ARROW ENGINEERING Landscape: N/A Architectural: NORR ARCHITECTS ENGINEERS PLANNER Structural: NORR ARCHITECTS ENGINEERS PLANNER

Mechanical: NORR ARCHITECTS ENGINEERS PLANNER

Electrical: NORR ARCHITECTS ENGINEERS PLANNER

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**ROYAL CANADIAN** MOUNTED POLICE K DIVISION CONSORT DETACHMENT

DETACHMENT

RENOVATIONS

CONSORT, ALBERTA

**ELECTRICAL SCHEDULES** & SPECIFICATIONS

Check Scale (may be photo reduced)

NCCA-16-0157 Drawing No. E03-00