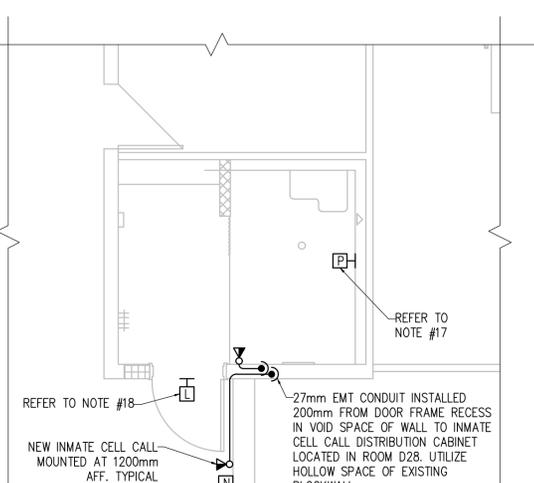
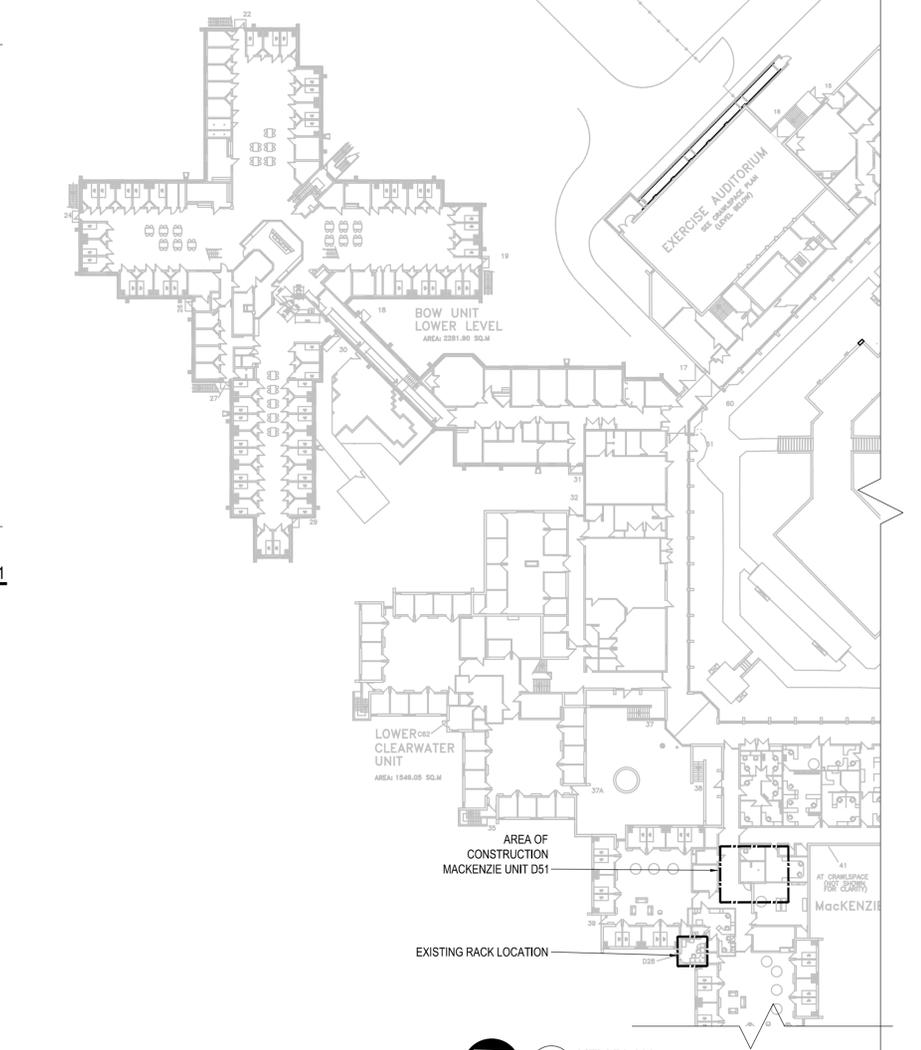


**1 ELECTRICAL DEMO LAYOUT - RM D51**  
E1 SCALE 1:50



**2 NEW ELECTRICAL LAYOUT - RM D51**  
E1 SCALE 1:50



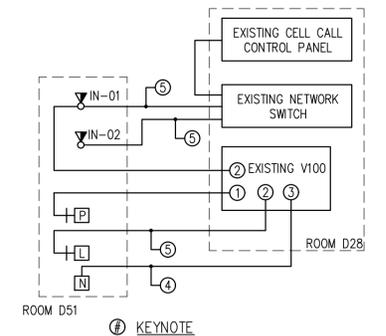
**3 NURSE CALL AND INMATE CELL CALL SYSTEM LAYOUT - RM D51**  
E1 SCALE 1:50

**GENERAL NOTES:**

1. MAINTAIN THE INTEGRITY OF ALL EXISTING SYSTEMS REQUIRED TO REMAIN OPERATIONAL. IDENTIFY ALL CIRCUIT BREAKERS, WIRING, JUNCTION BOXES AND DEVICES PRIOR TO PROCEEDING WITH WORK. CONTACT DEPARTMENTAL REPRESENTATIVE IF UNSURE BEFORE SHUTDOWNS, DEMOLITION, OR RELOCATION OF ANY DEVICES.
2. ALL ITEMS SHOWN DASHED WITH AN 'E' ARE EXISTING AND ARE TO REMAIN. ITEMS SHOWN DASHED WITH A 'D' ARE TO BE DISCONNECTED AND DEMOLISHED/REMOVED AND TRANSPORTED TO DESIGNATED SITE TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE. INCLUDE ALL COSTS IN BASE BID. REMOVE AND HAVE ALL ASSOCIATED WIRE AND CONDUIT REMOVED BACK TO SOURCE.
3. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT ALL EXISTING DEVICES TO BE RELOCATED.
4. WIRE AND CONDUIT SERVING DEVICES REQUIRED TO REMAIN IN USE SHALL BE RE-ROUTED AND DIVERTED AS REQUIRED TO MAINTAIN OPERATION. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT AS REQUIRED. CONFIRM EXISTING ON SITE.
5. NOT ALL DEVICES AND ELECTRICAL EQUIPMENT IS BEING SHOWN ON ELECTRICAL DRAWINGS. REMOVE ALL EXISTING ELECTRICAL DEVICES SHOWN OR NOT LOCATED ON INDICATED WALLS OR PORTIONS OF THE BUILDING BEING DEMOLISHED OR MODIFIED. MAINTAIN INTEGRITY OF ALL EXISTING ELECTRICAL SYSTEMS IN AREAS NOT INCLUDED IN THIS PROJECT AND IN PARTS OF THE BUILDING WITHIN RENOVATION THAT ARE NOT SUBJECTED TO ANY DEMOLITION WORK.
6. REFER TO SYMBOL SCHEDULE FOR ELECTRICAL SYMBOLS AND LETTER DESIGNATIONS.
7. EXISTING LUMINAIRES IN AREAS NOT DIRECTLY INCLUDED IN RENOVATION AREA TO REMAIN.
8. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SITE OBSERVATION TO DEPARTMENTAL REPRESENTATIVE.
9. COORDINATE FINAL LOCATION OF LUMINAIRES WITH ALL OTHER TRADES.
10. SYSTEMS AND DEVICES IN AREAS OF LIMITED SCOPE OF WORK AREAS TO REMAIN OPERATIONAL. PROVIDE ALL MODIFICATIONS TO ACCOMMODATE SCOPE OF WORK.
11. ALL EXISTING DEVICES ON WALLS, FLOOR OR CEILING NOT BEING AFFECTED BY RENOVATION ARE TO REMAIN.
12. SUPPLY AND INSTALL NEW MOISTURE PROOF FIRE ALARM STROBE AND BELL STROBE TO MATCH EXISTING. WIRE AND CONNECT BACK TO EXISTING LOCAL FIRE ALARM INDICATING CIRCUIT BACK TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED MODULES, BOOSTER PANELS MODIFICATIONS TO PANEL. CONFIRM EXISTING ON SITE.
13. SUPPLY AND INSTALL NEW MOISTURE PROOF FIRE ALARM HEAT DETECTOR. WIRE AND CONNECT TO LOCAL FIRE ALARM INITIATING CIRCUIT BACK TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE ALL REQUIRED MODIFICATIONS, MODULES, ETC. CONFIRM EXISTING ON SITE.
14. PROVIDE FIRE ALARM VERIFICATION FOR ALL AFFECTED CIRCUITS AND DEVICES.
15. PROVIDE CSA APPROVED 5-20R T-SLOT, ROOF MOUNTED RECEPTACLE, PROTECTED WITH A GFCI CLASS A TYPE CIRCUIT BREAKER WIRED TO A DEDICATED CIRCUIT. RECEPTACLE TO BE MOUNTED AT A MINIMUM OF 750mm ABOVE FINISHED ROOF AND A MAXIMUM OF 7.5M FROM ASSOCIATED MECHANICAL EQUIPMENT. RECEPTACLE TO BE C/W DIE-CAST ALUMINUM, WHILE IN USE, WET LISTED COVER. RECEPTACLE TO BE MOUNTED TO U-CHANNEL SUPPORTS. WIRE AND CONNECT TO NEAREST AVAILABLE DEDICATED 120V CIRCUIT.
16. INMATE CELL CALL DOOR STATION TO MATCH EXISTING INMATE CELL CALL DOOR STATION USED IN THE FACILITY. WIRE AND CONNECT TO EXISTING INMATE CELL CALL DOOR STATION DISTRIBUTION CABINET LOCATED IN ROOM D28. PROVIDE INDIVIDUAL DEVICE BOX BACK TO BACK.
17. NURSE CALL PULL CORD SWITCH TO BE MOUNTED AT 1200mm AFF. WIRE AND CONNECT EXISTING NURSE CALL SYSTEM.
18. NURSE CALL OVER DOOR INDICATOR LIGHT TO BE INSTALLED 200mm ABOVE DOOR FRAME CENTER OF DOOR. WIRE AND CONNECT EXISTING NURSE CALL SYSTEM.
19. NURSE CALL CANCELLATION DEVICE TO BE INSTALLED AT 1200mm AFF. WIRE AND CONNECT EXISTING NURSE CALL SYSTEM.
20. ALL NURSE CALL SYSTEM DEVICE TO MATCH EXISTING. ALL WIRING TO BE TERMINATED IN EXISTING RACK LOCATED IN ROOM D28. INSTALLATION TO BE COORDINATED WITH CSC ELECTRONICS ENGINEERING. NEW NURSE CALL DEVICE TO BE PROGRAMMED IN EXISTING NURSE CALL SYSTEM AND PERIMETER INTRUSION UNIT. CONTRACTOR TO COORDINATE PROGRAMMING WITH CSC ELECTRONICS ENGINEERING. ALL CABLES TO BE INSTALLED IN CONDUIT.

**SYMBOL SCHEDULE:**

- D - DENOTES EXISTING DEVICE TO BE DEMOLISHED
- WP - WEATHERPROOF
- MP - MOISTURE PROOF
- (with diagonal line) - RECESSED MOUNT LUMINAIRE
- (with horizontal line) - SURFACE MOUNT LUMINAIRE
- ⊕ - DUPLEX RECEPTACLE
- ⊕ (with horizontal line) - DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT
- ⊕ (with lightning bolt) - GFCI RECEPTACLE
- ⊕ (with S) - ONE GANG SWITCH
- ⊕ (with H) - FIRE ALARM HEAT DETECTOR
- ⊕ (with S) - FIRE ALARM STROBE
- ⊕ (with M) - MOTOR CONNECTION C/W DISCONNECT
- ⊕ (with I) - INMATE CELL CALL DOOR STATION
- ⊕ (with V) - VIDEO SURVEILLANCE CAMERA
- ⊕ (with P) - NURSE CALL PULL CORD SWITCH (WATER PROOF)
- ⊕ (with L) - NURSE CALL OVER DOOR INDICATOR LIGHT
- ⊕ (with N) - NURSE CALL CANCELLATION DEVICE



**4 NURSE CALL / CELL CALL SINGLE LINE DIAGRAM**  
E1 SCALE 1:50

- KEYNOTE**
1. INPUT
  2. OUTPUT
  3. READER INPUT
  4. 6 CONDUCTOR 22 AWG SHIELDED
  5. CATEGORY 6 CABLE IN CONDUIT.
  6. 2 CONDUCTOR AWG

TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS	WATTS	LUMINAIRE STYLE	VOLTAGE	COMMENTS
C	NEW STAR LIGHTING	UMN4-C-L2-I-2-A-R-WL	LED 3500K	50W	SURFACE MOUNT	120V	WET LOCATION
	EATON	FMS-D-12-4-LD4-2-STD-35--120-80/86-EDC-1-WL		68.1W			
	KENALL	SSA-4-I-45L35K-1-120-9/1-WL		45W			

ITEM	DESCRIPTION	LOCATION	ELECTRICAL CHARACTERISTICS			PACKAGED UNIT	CONTROLS			CIRCUITRY INFORMATION				NOTES
			HP/kW	AMPS	VOLTS/∅		TYPE	SUPPLIED BY	INSTALLED BY	WIRED BY	PANEL-CCT #	O.C.P.	WIRE	
EF-1	EXHAUST FAN	ROOF	FRAC	-	120V/1∅		INTERCONNECT TO WASHROOM LIGHT SWITCH			LOCAL LIGHTING CIRCUIT	15A-1P	2 # 12 AWG RW 90 Cu. + GRD	21mm	PROVIDE POWER WRING, NEMA 3R DISCONNECT SWITCH AND NAME PLATE.

- NOTES:**
1. DIVISION 26 TO CONFIRM FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN OF CONDUIT. CONFIRM FINAL EQUIPMENT RATINGS WITH MECHANICAL PRIOR TO ROUGHING-IN OF CONDUIT, WIRING AND CIRCUIT BREAKERS. SIZE OVERLOADS ACCORDINGLY. CONFIRM FINAL RATINGS WITH EQUIPMENT NAMEPLATES. INFORM ENGINEER OF ANY DISCREPANCIES AND OR DEVIATIONS PRIOR TO ROUGHING IN OF EQUIPMENT.
  2. ALL CONTROL WIRING TO BE BY DIVISION 23 UNLESS OTHERWISE NOTED. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS. ALL CONDUIT REQUIRED FOR CONTROLS TO BE SUPPLIED AND INSTALLED BY DIVISION 26. COORDINATE ALL WORK WITH DIVISION 23.
  3. PROVIDE DISCONNECTS FOR ALL EQUIPMENT AS REQUIRED.



Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
**HDK Consulting Incorporated**  
Number 30340

Discipline: ELECTRICAL  
Sk. Reg. No.: 26785  
Signature: [Signature]

Revision	Description	Date
5		
4		
3		
2	ISSUED FOR CONSTRUCTION	2017.06.09
1	90% CONSTRUCTION DOCUMENT	2017.03.27
0	50% CONSTRUCTION DOCUMENT	2017.02.17

**CORRECTIONAL SERVICES CANADA**  
SASKATOON, SASKATCHEWAN

Project title: **Correctional Service Canada (CSC) Regional Psychiatric Centre**  
**Bariatric / Geriatric Disability Showers MacKenzie Unit**

Designed by: [Signature] / Conçu par: [Signature]  
Drawn by: [Signature] / Dessiné par: [Signature]  
Approved by: [Signature] / Approuvé par: [Signature]  
PWSSC Project Manager: **BRET WARD** / Administrateur de Projets TPSGC

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
<b>R.079453.001</b>	<b>E1</b>	<b>2</b>
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