

PWGSC - A1 - 841X594

SYMBOL SCHEDULE

JUNCTION BOX/OUTLET BOX.

CEILING/WALL SURFACE MOUNTED INCANDESCENT OR HIGH INTENSITY DISCHARGE

RECESSED CEILING MOUNTED FIXTURE.

FLUORESCENT OR 'LED' FIXTURE, SURFACE MOUNTED OR SUSPENDED.

FLUORESCENT OR 'LED' FIXTURE. RECESSED.

FIXTURES SHOWN SHADED DESIGNATE UNIT IS CONNECTED TO EMERGENCY POWER DISTRIBUTION.

ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.

MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.

COPPER CLAD GROUND ROD 3045mm LONG X 20mm DIAMETER. CONNECTIONS SHALL BE THERMOWELD OR BURNDY HI-GRND. SUFFIX 'BP' INDICATES GROUNDING

MOULDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.

MOULDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER, 15 AMP UNLESS OTHERWISE NOTED.

MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF

MOTOR THERMAL SWITCH C/W PILOT LIGHT MOUNTED UP 1200mm.

S.P.S.T. SWITCH MOUNTED UP 1200mm. SUFFIX 'F' FOR FAN CONTROL.

THREE-WAY SWITCH MOUNTED UP 1200mm.

3-POSITION CELL LIGHT SWITCH. SWITCH MOUNTED UP 1200mm

FOUR-WAY SWITCH MOUNTED UP 1200mm.

KEY OPERATED SWITCH MOUNTED UP 1200mm UNLESS NOTED OTHERWISE. REFER E3.1 AND 28 22 00 ALARM SPECIFICATIONS.

DIMMER SWITCH WITH OCCUPANCY/VACANCY SENSOR. MOUNTED UP 1200mm, DIMMER SHALL BE SIZED ACCORDING TO LOAD AND SUITABLE FOR 'LED'. REFER TO SPECIFICATIONS.

S.P.S.T. SWITCH C/W PILOT LIGHT MOUNTED UP 1200mm. LIGHT SHALL BE ILLUMINATED WHEN LOAD IS 'ON'.

FIRE ALARM MANUAL PULL STATION MOUNTED UP 1350mm A.F.F.

FIRE ALARM SIGNAL DEVICE (HORN/STROBE) SURFACE WALL MOUNTED UP 2290mm A.F.F.

PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR

FIRE ALARM CONTROL/RELAY MODULE

FIRE ALARM MONITOR MODULE

FIRE ALARM SYSTEM COMBINATION TYPE SMOKE DETECTOR CEILING MOUNTED.

FIRE ALARM SYSTEM HEAT DETECTOR, COMBINATION 135 DEGREES FIXED TEMP/RATE OF RISE.

SPRINKLER FLOW SWITCH PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE AS A SEPARATE FIRE ALARM ZONE.

SPRINKLER TAMPER SWITCH PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE AS A FIRE ALARM TROUBLE/SUPERVISORY DEVICE.

EH EMERGENCY LIGHTING UNIT. SEE EMERGENCY LIGHTING SPECIFICATIONS FOR

DUPLEX GROUNDED RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a' - 250mm. ABOVE COUNTER; 'b'- UP 900mm.; 'f' FRIDGE RECEPTACLE UP 900mm; 'HK' 20A RECEPTACLE UP 450mm FOR HOUSE KEEPING; 'm' MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF. COORDINATE WITH ARCHITECTURE MILLWORK FOR EXACT LOCATION.

DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED 250mm ABOVE VANITY OR AS NOTED. SUFFIX 20A INDICATES A 20 AMP RECEPTACLE

DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE C/W 'WHILE IN USE' COVER MOUNTED UP 900mm. EQUAL TO HUBBELL BELL 5802-0.

DUPLEX GROUNDED RECEPTACLE, SPLIT WIRED, PROTECTED BY TWO POLE BREAKER AT PANEL. SEE DRAWINGS FOR MOUNTING HEIGHT.

DRYER RECEPTACLE, 30 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 900mm. CORD SET SUPPLIED WITH DRYER.

DUPLEX GROUNDED RECEPTACLE AND DATA/VOICE OUTLET AND A/V OUTLET MOUNTED IN COMBINATION RECESSED ADJUSTABLE FLUSH FLOOR BOX. NON-METALLIC ROUND BOX, UNIVERSAL CARPET FLANGE AND COVER ASSEMBLY, ALUMINUM FINISH, 8" DIAMETER. MANUFACTURER: HUBBELL S1PFB (BOX), S1CFCAL (COVER) OR APPROVED EQUAL.

DUPLEX GROUNDED RECEPTACLE, 20 AMP T-SLOT MOUNTED UP 450mm.

DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450mm FED FROM EMERGENCY POWER SUPPLY. BODY OF RECEPTACLE SHALL BE IMPREGNATED 'RED' COLOUR.

1D/1V ▼ DATA/VOICE OUTLET MOUNTED UP 450 mm. 100 mm. SQUARE BOX C/W SINGLE GANG EXTENSION AND 27 mm CONDUIT. SUFFIX '1D' INDICATES ONE DATA JACK, '1V' INDICATES ONE VOICE JACK. CABLE TYPE SHALL BE TERMINATED AT THE DATA PATCH PANEL AND OUTLET BOX VOICE CABLE TYPE SHALL BE TERMINATED AT THE OUTLET BOX AND BIX BLOCK.

POLE MOUNTED FIXTURE WITH ONE LUMINAIRE - REFER TO LIGHTING SPECIFICATIONS.

SUFFIX 'D/V' INDICATES JUNCTION BOX FOR SYSTEMS FURNITURE UP 450mm, SUFFIX 'P' INDICATES POWER, SUFFIX 'EP' INDICATES JUNCTION BOX FED FROM

OCCUPANCY SENSORS 'OC1', CEILING MOUNTED AS DESCRIBED ON DRAWINGS, AND SPECIFICATIONS.

RECESSED SINGLE GANG BOX MOUNTED UP 900mm, FOR POWER DOOR OPERATOR. RUN 21MM CONDUIT TO DOOR OPERATOR.

DOOR CONTACT ROUGH-IN FOR SECURITY SYSTEM. PROVIDE 21mm CONDUIT FROM 300mm ABOVE FINISHED CEILING SPACE STUBBED INTO DOOR FRAME. COORDINATE WITH DOOR FRAME SUPPLIER.

DRAWING NOTES:

SUFFIXED 'c'.

- PROVIDE CONDUIT AND SERVICE CONDUCTORS, SIZES AS SHOWN ON DRAWING E3.1 AND E5.1.
- PROVIDE 2 #10 RWU90 & #10 INSUL BOND IN 21MM RIGID PVC, 900mm BELOW GRADE FROM LIGHTING PANEL TO LIGHT POLE AND SITE SIGN. REFER TO TRENCH DETAIL.
- POWER FEEDER TO BUILDING 165, PANEL 'D'. PROVIDE RIGID PVC CONDUIT 900mm BELOW GRADE FOR POWER FEEDER CABLES BEING RUN UNDERGROUND. REFER TO PANEL SCHEMATICS FOR CONDUIT AND CONDUCTOR SIZES.
- UNDERGROUND SERVICE CONDUIT FOR NEW SASKTEL SERVICE. REFER TO DRAWING E3.1, NOTE #19.

SUBSCRIPT 'CLG' DENOTES DEVICE IS CEILING MOUNTED.

LETTER SUFFIX FOR SWITCH AND FIXTURE INDICATE FIXTURE

NON-SW - INDICATES A NON-SWITCHED FIXTURE.

SWITCHING AND QUANTITY OF SWITCHES, E.G. Sa INDICATES ONE

SUFFIX 'a'. Sa:b:c INDICATES THREE S.P.S.T. SWITCHES, THE FIRST

CONTROLLING FIXTURES SUFFIXED 'a', THE SECOND CONTROLLING FIXTURES SUFFIXED 'b', AND THE THIRD CONTROLLING FIXTURES

S.P.S.T. SWITCH CONTROLLING FIXTURES WITH CORRESPONDING

Architecture Inc.



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ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN CERTIFICATE OF AUTHORIZATION RITENBURG & ASSOCIATES LTD. NUMBER 52 PERMISSION TO CONSULT HELD BY: SASK. REG. No. A SIGNATURE

ELECTRICAL 9273 50404 DO NOT SCALE DRAWINGS

ISSUED FOR TENDER Description/Description

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

rchitectural and Engineering Resources Manager/ essources Architectural et de Directeur d'ingénierie

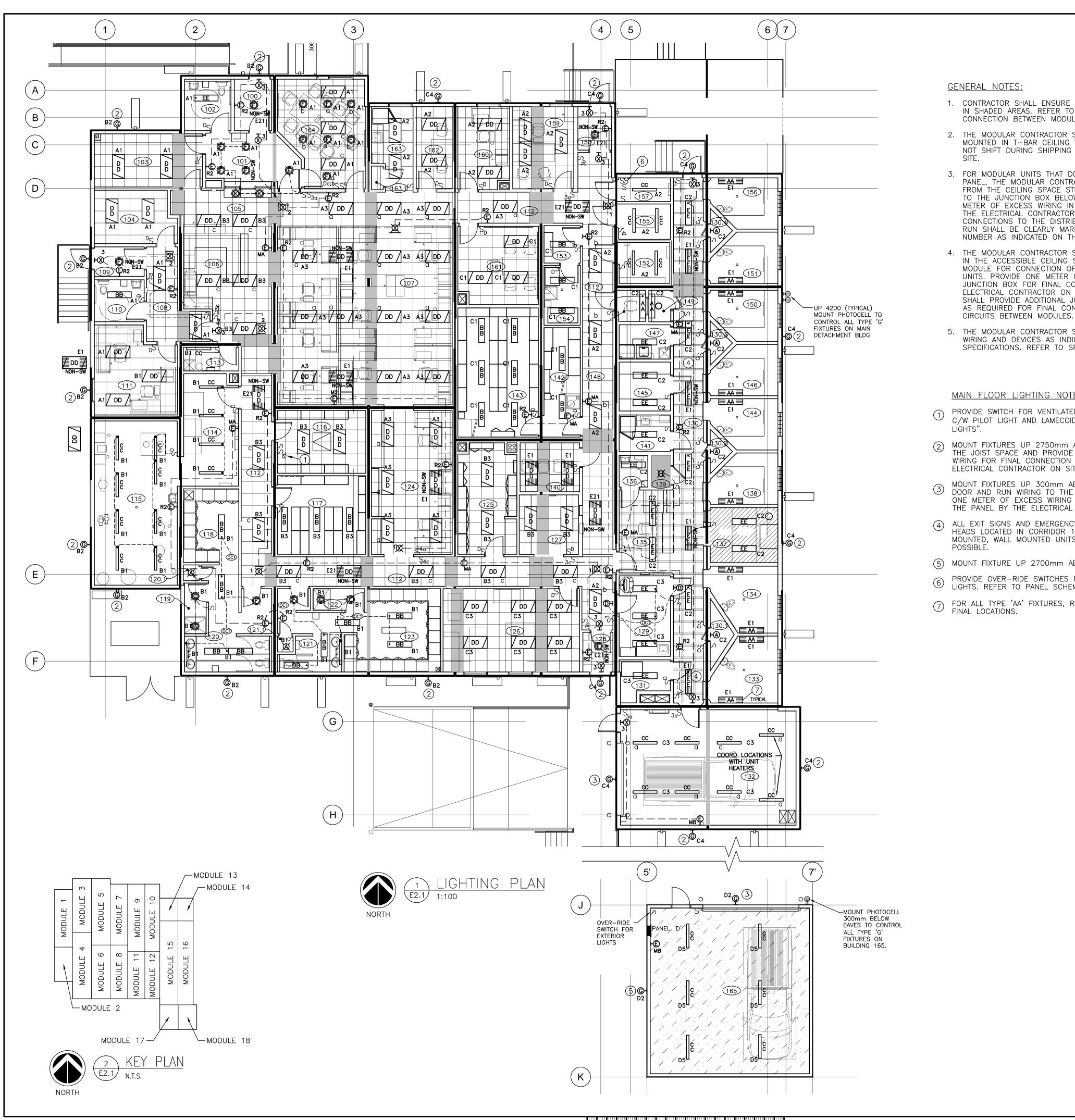
Client/client

Drawing title/Titre du dessin **ELECTRICAL SITE PLAN** AND SYMBOL SCHEDULE

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E1.1

S-35-2014



GENERAL NOTES:

- 1. CONTRACTOR SHALL ENSURE FIXTURES ARE NOT INSTALLED IN SHADED AREAS. REFER TO ARCHITECTURAL DETAILS FOR CONNECTION BETWEEN MODULAR UNITS.
- 2. THE MODULAR CONTRACTOR SHALL SECURE FIXTURES MOUNTED IN T-BAR CEILING TO ENSURE FIXTURES DO NOT SHIFT DURING SHIPPING OF MODULAR UNITS TO THE
- 3. FOR MODULAR UNITS THAT DO NOT HAVE AN ELECTRICAL PANEL, THE MODULAR CONTRACTOR SHALL RUN WIRING FROM THE CEILING SPACE STUBBED DOWN IN THE WALLS TO THE JUNCTION BOX BELOW THE FLOOR AND COIL ONE METER OF EXCESS WIRING IN THE JUNCTION BOX FOR THE ELECTRICAL CONTRACTOR ON SITE TO MAKE FINAL CONNECTIONS TO THE DISTRIBUTION PANELS. EACH CABLE RUN SHALL BE CLEARLY MARKED WITH THE CIRCUIT NUMBER AS INDICATED ON THE DRAWINGS.
- 4. THE MODULAR CONTRACTOR SHALL PROVIDE PULL BOXES IN THE ACCESSIBLE CEILING SPACE OF EACH ADJOINING MODULE FOR CONNECTION OF BRANCH CIRCUITRY BETWEEN UNITS. PROVIDE ONE METER OF EXCESS WIRING AT EACH JUNCTION BOX FOR FINAL CONNECTION ON SITE BY THE ELECTRICAL CONTRACTOR ON SITE. THE SITE CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES AND WIRING AS REQUIRED FOR FINAL CONNECTIONS OF BRANCH
- 5. THE MODULAR CONTRACTOR SHALL PROVIDE AND INSTALL WIRING AND DEVICES AS INDICATED ON THE PLANS AND SPECIFICATIONS. REFER TO SPECIFICATIONS.

MAIN FLOOR LIGHTING NOTES:

- PROVIDE SWITCH FOR VENTILATED SPACE LIGHTING AREA 001 C/W PILOT LIGHT AND LAMECOID LABEL "VENTILATED SPACE
- 2 MOUNT FIXTURES UP 2750mm A.F.F. AND RUN WIRING TO THE JOIST SPACE AND PROVIDE ONE METER OF EXCESS WIRING FOR FINAL CONNECTION TO THE PANEL BY THE ELECTRICAL CONTRACTOR ON SITE.
- MOUNT FIXTURES UP 300mm ABOVE TOP OF OVERHEAD DOOR AND RUN WIRING TO THE JOIST SPACE AND PROVIDE ONE METER OF EXCESS WIRING FOR FINAL CONNECTION TO THE PANEL BY THE ELECTRICAL CONTRACTOR ON SITE.
- 4 ALL EXIT SIGNS AND EMERGENCY BATTERY AND REMOTE HEADS LOCATED IN CORRIDOR 130 SHALL BE CEILING MOUNTED, WALL MOUNTED UNITS MOUNTED AS HIGH AS
- MOUNT FIXTURE UP 2700mm ABOVE FINISHED FLOOR.
- PROVIDE OVER-RIDE SWITCHES FOR EXTERIOR BUILDING 6 LIGHTS. REFER TO PANEL SCHEMATICS FOR WIRING DETAIL.
- FOR ALL TYPE 'AA' FIXTURES, REFER TO ARCH DWG FOR FINAL LOCATIONS.







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Revision/ Revision Client/client	Description/Description	Date/Dat
0	ISSUED FOR TENDER	2016-08-12

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

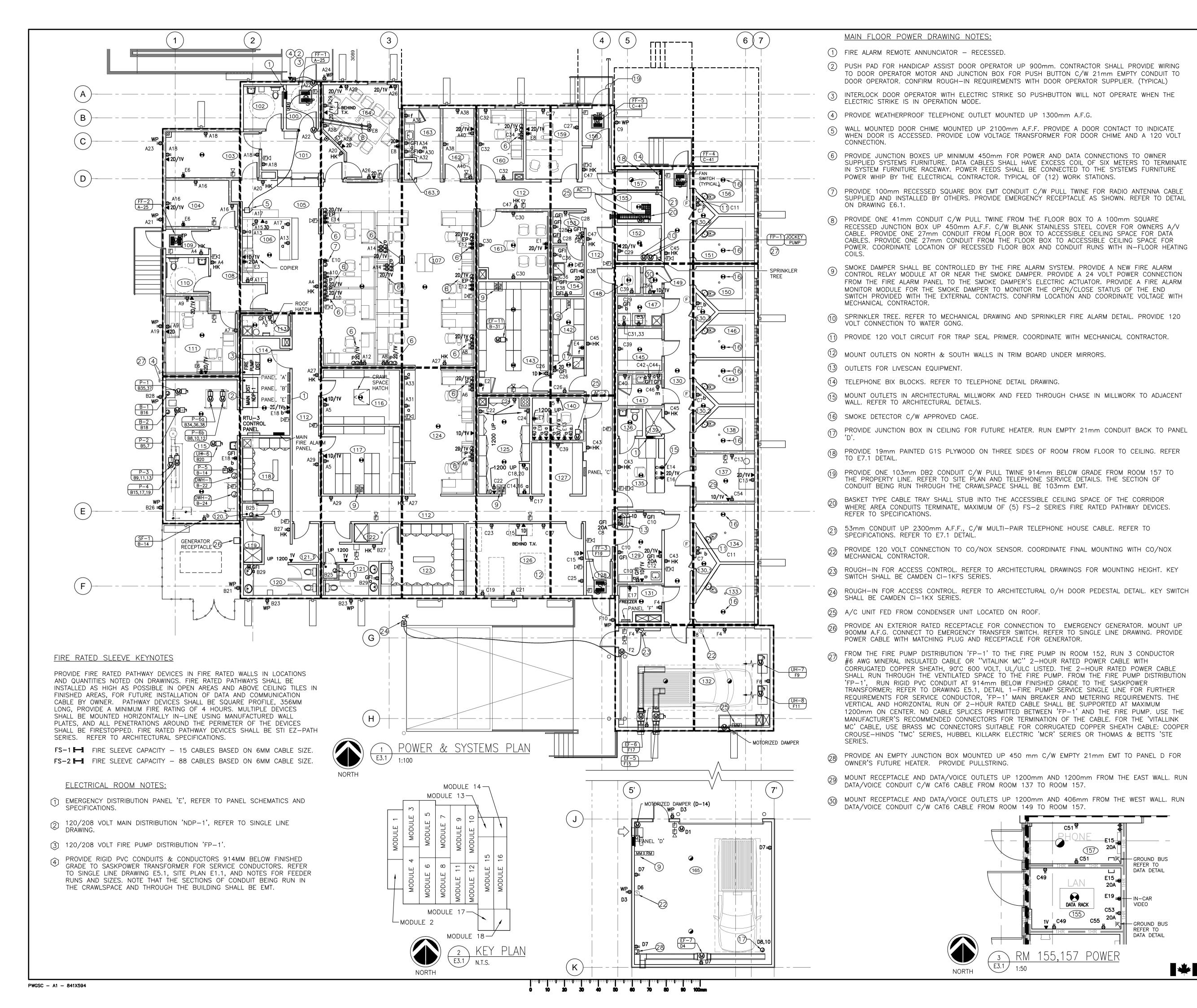
Designed by/Concept par

architectural and Engineering Resources Manager Ressources Architectural et de Directeur d'Ingénierie

Drawing title/Titre du dessi **MAIN FLOOR LIGHTING PLAN**

S-35-2014

Revision no La Révision E2.1



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ELECTRICAL 9273

50404

0 ISSUED FOR TENDER 2016-08-12

Revision Description/Description

Client/client

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par SBK

Designed by/Concept par

Drawn by/Dessine par KAD

> hitectural and Engineering Resources Manager/ sources Architectural et de Directeur d'Ingénierie

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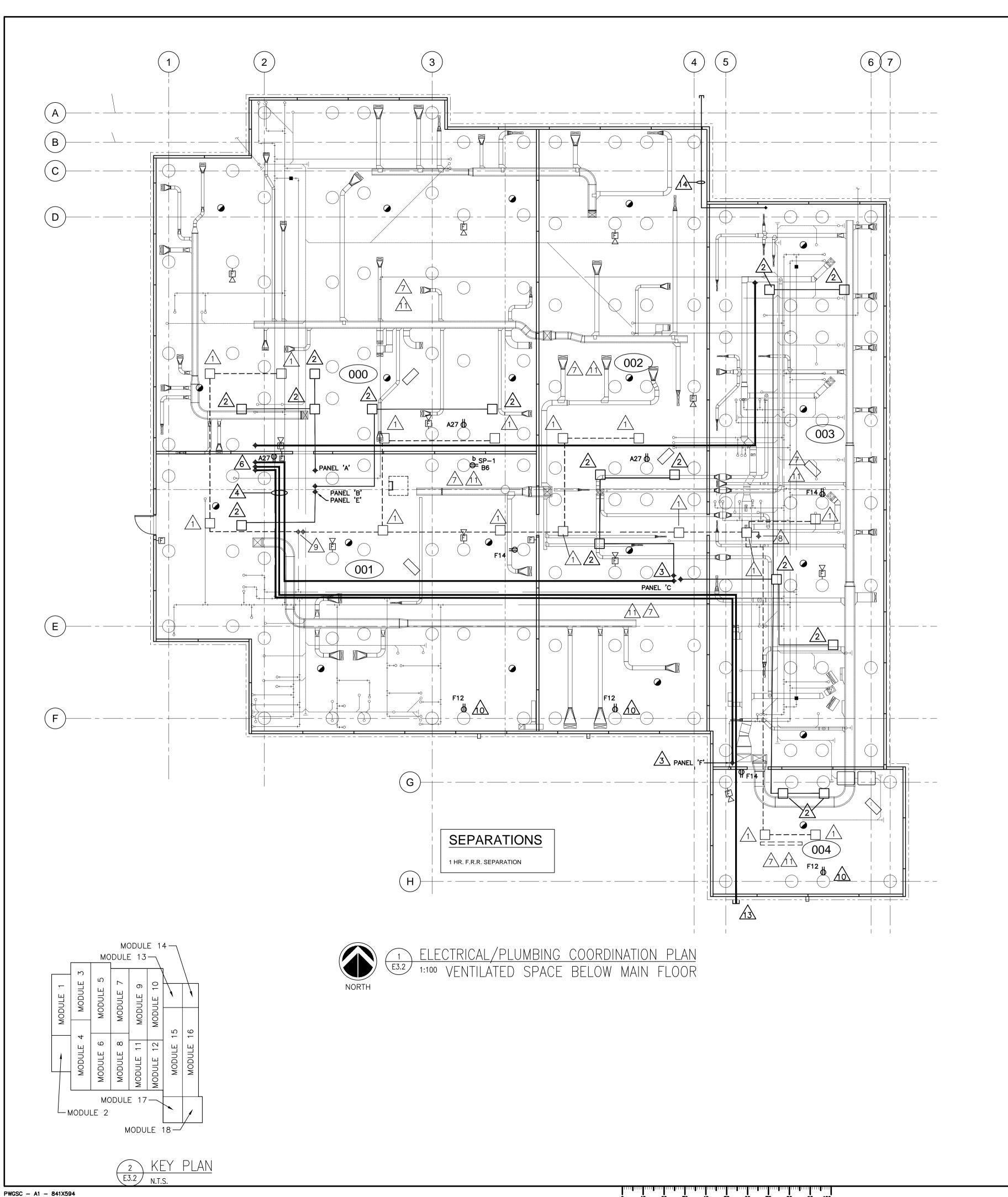
Client/client

Drawing title/Titre du dessin

MAIN FLOOR POWER AND SYSTEMS PLAN

Project No./No. du projet S-35-2014 Revision no. La Révision no. 0

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GENERAL NOTES:

- 1. COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
- 2. ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
- 3. COORDINATE FINAL LOCATIONS OF FIRE ALARM DEVICES WITH MECHANICAL DUCTWORK AND PIPING.
- 4. ALL FIXTURES AND DEVICES SHALL BE INSTALLED AFTER METAL SHEETING IS INSTALLED ON THE UNDERSIDE OF THE FLOOR JOISTS. ALL PENETRATIONS SHALL HAVE FIRE STOPPING PROVIDED.
- 5. RUN FEEDERS FOR ROOF TOP UNITS TO DUCT RISER SHAFT AND RISE UP TO CEILING SPACE. RUN THROUGH CEILING TO ROOF TOP UNIT AND STUB UP INSIDE ROOF CURB. REFER TO POWER PLAN FOR RISER LOCATIONS AND SINGLE LINE DRAWING FOR FEEDER SIZES.
- 6. ALL WIRING IN THE VENTILATED SPACE SHALL BE RUN IN EMT CONDUIT.

VENTILATED SPACE NOTES:

305MM X 305MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR FIRE ALARM CONDUIT TERMINATIONS. PROVIDE CONDUIT RUNS FOR EACH FIRE ALARM DEVICE AND TERMINATE IN PULL BOX. PROVIDE CONDUIT IN VENTILATED SPACE BETWEEN EACH PULL BOX BACK TO THE MAIN FIRE ALARM PANEL. FIRE ALARM WIRING SHALL BE INSTALLED ON SITE. THERE SHALL BE NO SPLICING OF FIRE ALARM CABLES. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.

457MM X 457MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR BRANCH CIRCUITRY TERMINATIONS. PROVIDE CONDUIT IN VENTILATED SPACE FROM EACH PULL BOX TO THE PANEL LOCATION SIZED TO SUIT BRANCH CIRCUITS FROM EACH MODULE. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.

LOCATION OF PANEL FEEDER CONDUITS STUBBED DOWN INTO JOIST SPACE BELOW FLOOR. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. DRAWING E5.2 & E5.3.

PROVIDE EMT CONDUIT IN VENTILATED SPACE AND CONNECT TO CONDUIT STUB FOR NOTE #3. RUN CONDUIT THROUGH VENTILATED SPACE TO THE MAIN DISTRIBUTION CDP AND PULL FEEDERS ON SITE. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. TYPICAL FOR ALL PANEL LOCATIONS. ALL CONDUITS SHALL BE MOUNTED TO UNISTRUT RACK FASTENED TO UNDERSIDE OF FLOOR JOISTS. CONDUITS SHALL NOT BE MOUNTED TO THE UNDERSIDE OF THE FLOOR DECK. REFER TO RACK DETAIL.

ROOM 157 ABOVE. STUB CONDUIT OUT TO EXTERIOR FOR SASKTEL INCOMING SERVICE CABLES. REFER TO SITE PLAN FOR CONDUIT

ROOM 114 ABOVE. STUB OUT CONDUITS FOR INCOMING MAIN SERVICE CONDUCTORS.

BRANCH CIRCUITRY FEEDERS SHALL BE INSTALLED IN FACTORY. LIGHT FIXTURES SHALL BE INSTALLED ON SITE. COORDINATE LOCATION OF LIGHTING FIXTURES WITH MECHANICAL DUCTS AND BEAMS. CONDUITS SHALL RUN TIGHT TO THE UNDERSIDE OF BEAMS. CONNECT AREA 001 LIGHTING TO SWITCH IN ROOM 116 ADJACENT TO ACCESS HATCH.

STUB UP TO REMOTE FIRE ALARM ANNUNCIATOR PANEL.

STUB UP TO MAIN FIRE ALARM PANEL.

PROVIDE RECEPTACLE FOR FUTURE SOIL GAS EXHAUST MOUNT ON WALL 300mm BELOW FLOOR STRUCTURE. PROVIDE RECEPTACLE FOR FUTURE SOIL GAS EXHAUST SYSTEM.

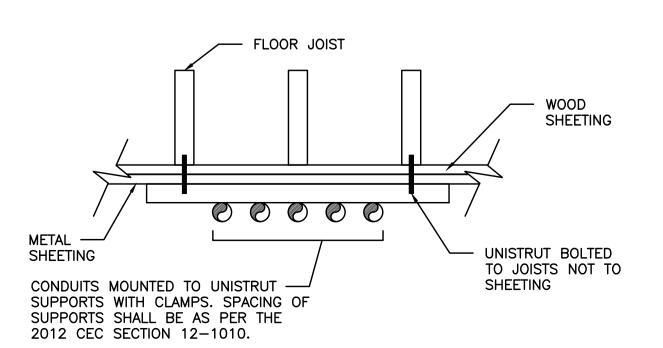
PROVIDE #6 BARE CU. BOND TO METAL SHEETING ON UNDERSIDE PROVIDE #6 BARE CU. BOND TO METAL SHEETING ON UNDERSIDE

11 OF JOISTS IN VENTILATED SPACE. PROVIDE CONNECTIONS EVERY 15 METERS IN A GRID PATTERN.

MOUNT HORN STROBE SO TOP OF STROBE IS LOWER THAN THE BOTTOM OF THE MECHANICAL DUCTS FOR OPTIMUM VISIBILITY.

RUN FEEDER FROM VENTILATED SPACE TO PANEL 'D' IN BUILDING 165. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER

REFER TO NOTE #19 ON DRAWING E3.1 FOR INCOMING TELEPHONE CONDUIT.



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ELECTRICAL 9273 50404 1

Revision Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2016-08-12
	DO NOT SCALE DRAWINGS	

Project title/Titre du projet

Client/client

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

Architectural and Engineering Resources Manager, Ressources Architectural et de Directeur d'Ingénierie

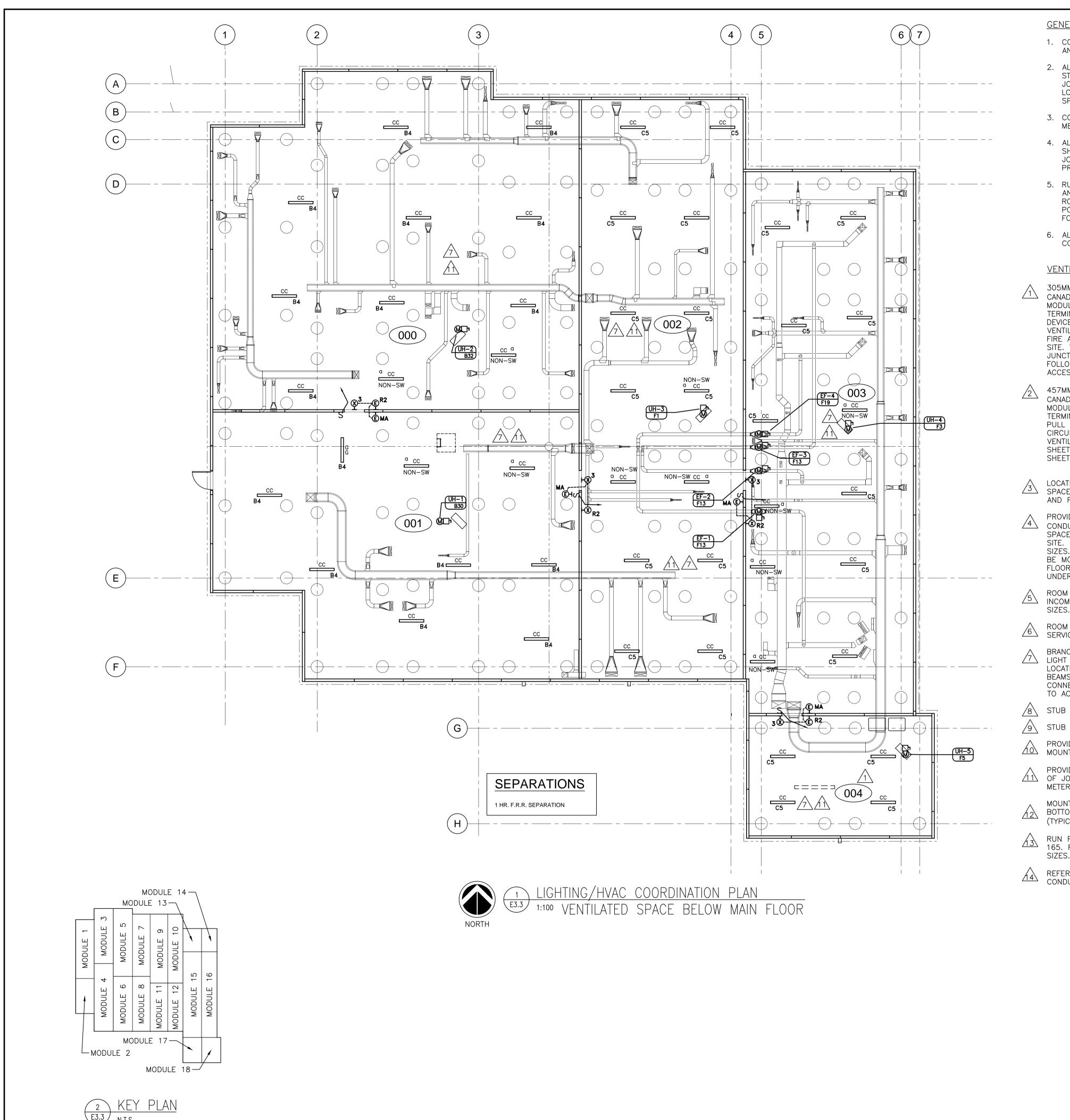
Client/client

Drawing title/Titre du dessin **ELECTRICAL CONDUIT LAYOUT AND EQUIPMENT CONNECTIONS**

S-35-2014

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Revision no La Révision E3.2



GENERAL NOTES:

- 1. COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
- 2. ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
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ROOM 157 ABOVE. STUB CONDUIT OUT TO EXTERIOR FOR SASKTEL INCOMING SERVICE CABLES. REFER TO SITE PLAN FOR CONDUIT

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PROVIDE #6 BARE CU. BOND TO METAL SHEETING ON UNDERSIDE OF JOISTS IN VENTILATED SPACE. PROVIDE CONNECTIONS EVERY 15 METERS IN A GRID PATTERN.

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REFER TO NOTE #19 ON DRAWING E3.1 FOR INCOMING TELEPHONE







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DO NOT SCALE DRAWINGS ISSUED FOR TENDER Description/Description

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par

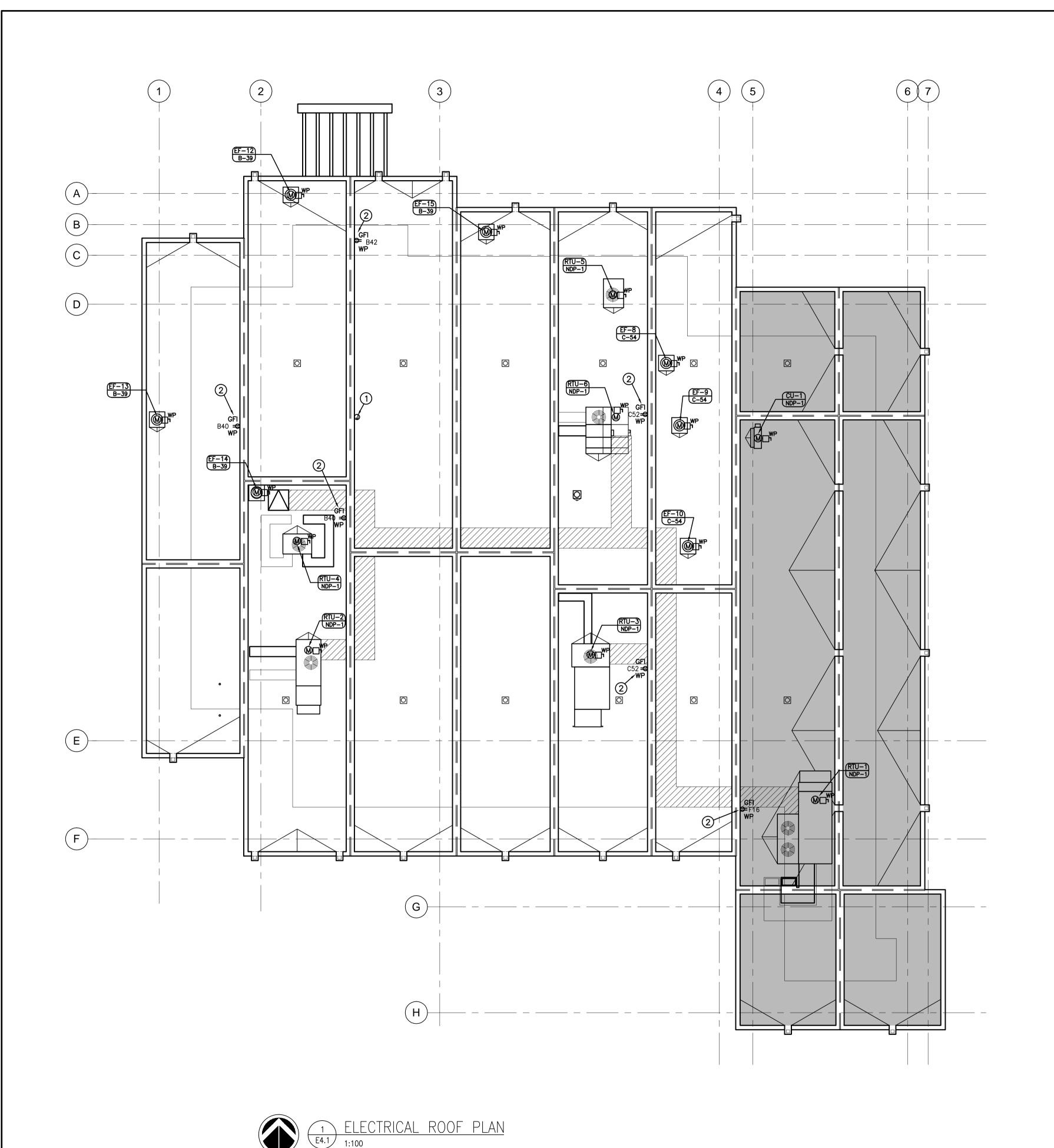
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rchitectural and Engineering Resources Manager essources Architectural et de Directeur d'Ingénierie

Drawing title/Titre du dessin **ELECTRICAL CONDUIT LAYOUT** AND EQUIPMENT CONNECTIONS

S-35-2014

Revision no La Révision E3.3



DRAWING NOTES:

- 1) RADIO ANTENNA LOCATION. REFER TO E6.1 'DETAIL #2' AND DRAWING E3.1 'NOTE #7'.
- PROVIDE 5-20R GFIC RECEPTACLES FOR SERVICE OF THE MECHANICAL EQUIPMENT. ELECTRICAL SHALL PROVIDE SEPARATE CIRCUITS AS SHOWN. CIRCUITS SHALL NOT BE FED FROM MECHANICAL UNIT. MOUNT RECEPTACLE ON BACK SIDE OF PARAPET UP 750mm MINIMUM. PROVIDE UNISTRUT SUPPORT FASTENED TO PARAPET FOR RECEPTACLE. SEAL ALL PENETRATIONS OF MEMBRANE ON PARAPET.

GENERAL NOTE:

- 1. ENSURE ALL ROOF PENETRATIONS ARE SEALED WITH APPROVED WATER TIGHT SEALANT.
- 2. RUN FEEDERS FOR ROOF TOP UNITS UP FROM VENTILATED SPACE THROUGH THE MECHANICAL DUCT CHASE AS SHOWN ON FLOOR PLANS.
- 3. PROVIDE POWER FEEDS TO THE EXHAUST FANS RUN FEEDERS THROUGH THE SPACE PROVIDED FOR EXHAUST DUCT. FEEDERS SHALL NOT PASS THROUGH THE INSIDE OF THE DUCTS TO THE MOTOR CONNECTION. PROVIDE A JUNCTION BOX IN THE ACCESSIBLE CEILING SPACE BELOW FOR BRANCH CIRCUITRY.
- 4. SEPARATE ROOF CURB ADJACENT TO THE FAN UNIT AND STUB UP FEEDERS FROM ACCESSIBLE CEILING SPACE BELOW. REFER TO CURB DETAIL.







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AHTAHKAKOOP, SASKATCHEWAN

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Drawing title/Titre du dessin **MAIN FLOOR POWER & SYSTEMS ROOF PLAN**

E4.1

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MODULE 13

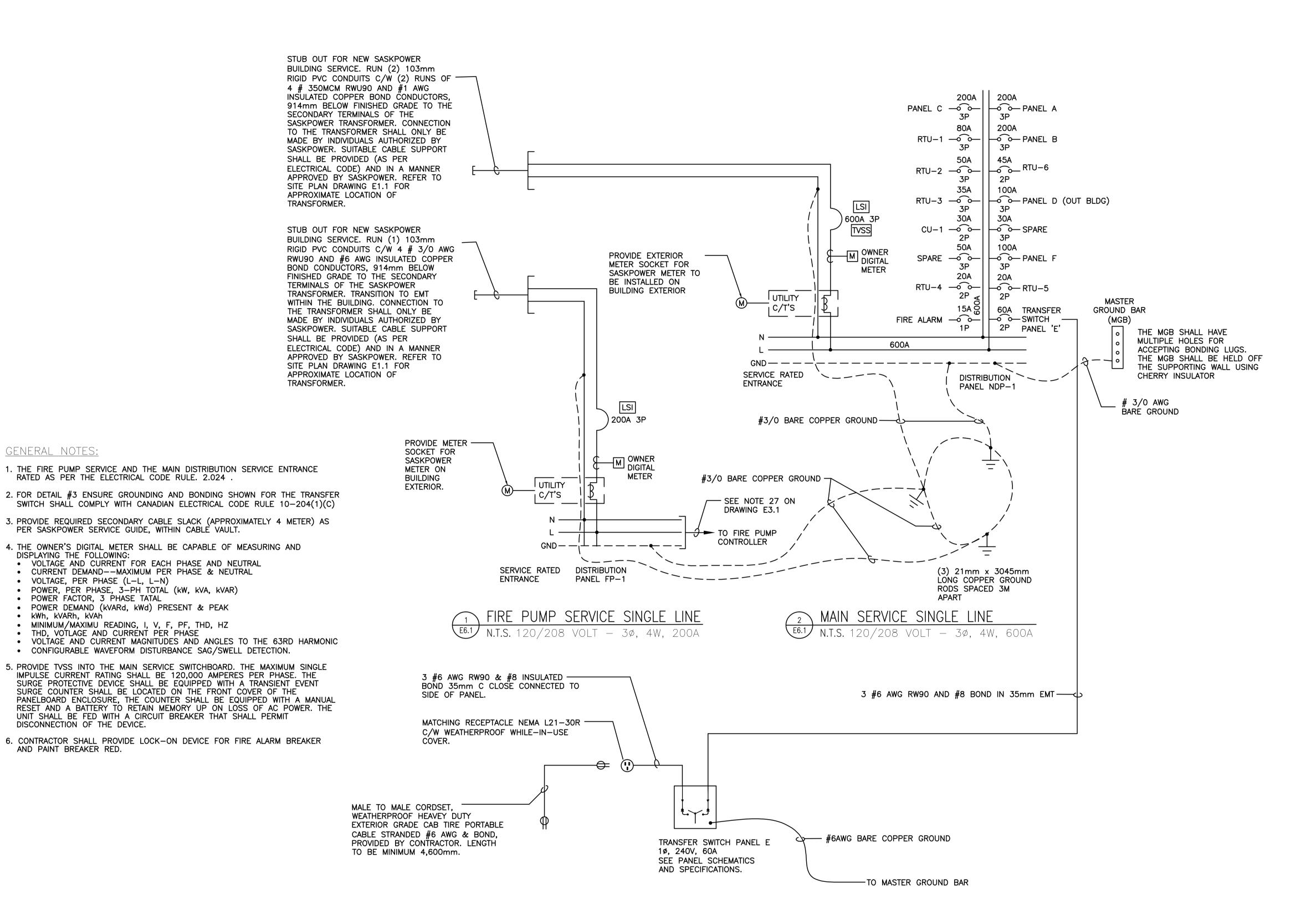
/--MODULE 14

─MODULE 18

2 KEY PLAN N.T.S.

MODULE 17-

└MODULE 2



EMERGENCY DISTRIBUTION SINGLE LINE E6.1 N.T.S. 110/240 VOLT 10, 3W, 60A







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0	ISSUED FOR TENDER	2016-08-12
Revision/ Revision	Description/Description	Date/Date

Project title/Titre du projet

Client/client

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par Designed by/Concept par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin **SINGLE LINE DRAWING**

E5.1

S-35-2014

GENERAL NOTES:

DISPLAYING THE FOLLOWING:

kWh, kVARh, kVAh

VOLTAGE, PER PHASE (L-L, L-N)

POWER FACTOR, 3 PHASE TATAL

DISCONNECTION OF THE DEVICE.

AND PAINT BREAKER RED.

PWGSC - A1 - 841X594

Equip Cct #

MOTOR & EQUIPMENT SCHEDULE

TAG INDICATED **EQUIPMENT** LOCATION ON PLAN

Item	Description	kW	H.P.	Volt	ø F.L	A. M.C.A.	Starter	Size	MOP	Brkr	Feeder	PANEL	NOTES
AC-1	AIR CONDITIONING UNITS (RM155)	1.19		208	1	1.0			15A	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.		NOTE 1
AC-2	AIR CONDITIONING UNIT (RM140)	1.19		208	1	1.0			15A	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.		NOTE 1
	, ,												
DWH-1	HOT WATER HEATER - ROOM 115			120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 4
DWH-2	HOT WATER HEATER - ROOM 115			120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 4
CU-1	CONDENSING UNIT - ROOF			208	1	18			30A	30A-2P	2 #10 RW90 + #12 INS. BOND IN 21C.	NDP-1	NOTE 1
FP-1	FIRE PUMP — ROOM 152		15	208	3						REFER TO NOTE 11	SEPARATE SERVICE	SEPARATE SERVICE, REFER TO DRAWING E5.1 (SINGLE
			15								KEIER TO HOTE TT	SEI AIMIE SEIMIGE	LINE DRAWING)
	FIRE CONTROLLER - LOCATION TO BE CONFIRMED			208	3								NOTE 12
													C/W AUTO AND MANUAL CONTROL; SEPARATE SERVICE,
SJP	SPRINKLER JOCKEY PUMP — ROOM 152		0.25	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	SEPARATE SERVICE	REFER TO DARWING E5.1 (SINGLE LINE DRAWING)
GD	GAS DETECTORS (ROOM - 132 & ROOM 165)			120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F & D	DIRECT CONNECT
B-1	BOILER(S) - ROOM 115			120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	-
B-2	BOILER(S) - ROOM 115			120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	-
P-1	BOILER CIRC PUMPS(S) - ROOM 115		0.5	208	1		FVNR	1		15A-2P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 3
P-2	BOILER CIRC PUMPS(S) - ROOM 115		0.5	208	1		FVNR	1		15A-2P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 3
P-3	MAIN HEATING PUMPS(S) - ROOM 115		1.5	208	3					15A-3P	3 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 2
P-4	MAIN HEATING PUMPS(S) - ROOM 115		1.5	208	3					15A-3P	3 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 2
P-5	HOT WATER RECIRC PUMP - ROOM 115	0.03	1/25	120	1		FVNR			15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 3
P-6a	BOOSTER PUMP(S) - ROOM 115	0.56	3/4	208	3					15A-3P	3 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 8
P-6b	BOOSTER PUMP(S) - ROOM 115	0.56	3/4	208	3					15A-3P	3 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 8
SP-1	SUMP PUMP - ROOM 001	0.373		120	1			1		15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 4
SF-1	SYSTEM FILL - ROOM 115			120	1 0).7				15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	NOTE 4
RTU-1	ROOF TOP UNIT (SUPPLY) - ROOF												
RTU-1	ROOF TOP UNIT (EXHAUST) - ROOF		5	208	3 6	70			80A	80A-3P	3 #4 RW90 + #8 INS. BOND IN 35C.	NDP-1	NOTE 2, 10
RTU-2	ROOF TOP UNIT (SUPPLY) - ROOF												
RTU-2	ROOF TOP UNIT (EXHAUST) - ROOF		2	208	3 3	55 39			50A	50A-3P	3 #8 RW90 + #10 INS. BOND IN 21C.	NDP-1	NOTE 2, 10
RTU-3	MAKE UP AIR UNIT - ROOF		1	208	3 26	6.5			35A	35A-3P	3 #8 RW90 + #10 INS. BOND IN 21C.	NDP-1	NOTE 9, 10
,													
RTU-4	ROOF TOP UNIT - ROOF		1/3	208	1	14.8			20A	20A-2P	2 #10 RW90 + #12 INS. BOND IN 21C.	NDP-1	NOTE 10
RTU-5	ROOF TOP UNIT - ROOF		1/3	208	1	14.8			20A	20A-2P	2 #10 RW90 + #12 INS. BOND IN 21C.	NDP-1	NOTE 10
RTU-6	ROOF TOP UNIT - ROOF		1.5	208	1	33.5			45A	45A-2P	2 #8 RW90 + #10 INS. BOND IN 21C.	NDP-1	NOTE 10
FF-1	FORCE FLOW - VESTIBULE 100	0.03	1/25	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL A	-
FF-2	FORCE FLOW - VESTIBULE 109	0.03		120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL A	-
FF-3	FORCE FLOW - VESTIBULE 128	0.03		120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL C	-
FF-4	FORCE FLOW — CORRIDOR 130	0.03	1/25	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL C	-
FF-5	FORCE FLOW - VESTIBULE 158	0.03	1/25	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL C	-
EF-1,2,3,4	EXHAUST FAN - ROOM 003	0.01	1/8	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F	NOTE 7
EF-5,6,11	EXHAUST FAN - ROOM 132, ROOM 143	0.325	+	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F & B	-
EF-7	EXHAUST FAN - ROOM 165	0.405		120	1					20A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL D	-
EF-8,9,14	EXHAUST FAN - ON ROOF	0.01	1/100	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B/C	_
					'								
EF-10,12,13	EXHAUST FAN - ON ROOF	0.01	1/80	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B/C	-
EF-15	EXHAUST FAN - ON ROOF	0.01	1/200	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	_
,										15	0 #40 50000 #40 0000		
UH-1	UNIT HEATERS — ROOM 001	0.37	1/2	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	-
UH-2	UNIT HEATERS - ROOM 000	0.37	1/2	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	-
UH-3	UNIT HEATERS — ROOM 002	0.37	1/2	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F	-
UH-4	UNIT HEATERS - ROOM 003	0.37	1/2	120	1					15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F	-
UH-5	UNIT HEATERS - ROOM 004	0.37	1/2	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F	-
UH-6	UNIT HEATERS - ROOM 115	0.37	1/2	120	1				1	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL B	_
UH-7, UH-8	UNIT HEATERS - ROOM 132	0.37	1/2	120	1 -	- -	_	_	_	15A-1P	2 #12 RW90 + #12 INS. BOND IN 21C.	PANEL F	-

MECHANICAL EQUIPMENT SCHEDULE NOTES

1. PROVIDE AN ELECTRICAL CONNECTION TO THE NEW OUTDOOR CONDENSING UNIT ON THE ROOF, AS PER MECHANICAL SCHEDULE. PROVIDE CONNECTION FROM CU-1 TO AC-1 & 2. INDOOR AC UNITS SHALL BE POWERED FROM OUTDOOR CONDENSING UNIT ON TERMINALS S1 & S2. AC UNIT(S) SHALL BE COMPLETE WITH PRE-WIRED CONDENSATE PUMP.

INDOOR UNIT POWER IS SUPPLIED FROM THE OUTDOOR CONDENSING UNIT, WITH INTERNAL PROTECTION PROVIDED IN THE CONDENSING UNIT. OUTDOOR AND INDOOR UNIT HAVE POLARITIES - ENSURE INSTALLATION/CONNECTIONS ARE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- 2. UNIT SHALL BE COMPLETE WITH FACTORY VFD. VFD SHALL BE UNIT MOUNTED AND PRE-WIRED TO MOTOR.
- 3. PROVIDE LOCAL DISCONNECT AND STARTER.
- 4. PROVIDE RECEPTACLE FOR PLUG IN TYPE EQUIPMENT.
- 5. RANGE HOOD EQUIPPED WITH PRE-WIRED LIGHTING AND ELECTRONIC CONTROL.
- 6. FIRE PUMP SHALL BE EQUIPPED WITH FIRE PUMP SOFT START CONTROLLER.
- 7. CONTROL SWITCHES FOR EXHAUST FANS PROVIDED BY MECHANICAL, INSTALLED AND WIRED BY ELECTRICAL. REFER TO MECHANICAL FAN SCHEDULE.
- 8. UNIT SHALL BE EQUIPPED WITH INTEGRAL DEDICATED VFD CONTROL.
- 9. UNIT SHALL BE EQUIPPED WITH FACTORY VFD. REMOTE CONTROL PANEL BY MECHANICAL.
- 10. PROVIDE SINGLE POINT CONNECTION.
- 11. RUN 3 CONDUCTOR 3 #6 AWG MINERAL INSULATED CABLE OR 'VITALINK MC' 2-HOUR RATED POWER CABLE.
- 12. SOFT START SOFT STOP FIRE PUMP CONTROLLER HORSE POWER TO MATCH FIRE PUMP. COORDINATE WITH MECHANICAL.

GENERAL NOTES:

- ACTUATORS FOR MOTORIZED DAMPERS SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. MOTORIZED DAMPER LOCATED IN 'OUT BUILDING'
- ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL DISCONNECT FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE SPECIFIED.
- PROVIDE IN-USE 5-20R RECEPTACLE(S), FED FROM DEDICATED 20A CIRCUIT, FOR ALL ROOF MOUNTED MECHANICAL EQUIPMENT. RECEPTACLES SHALL BE WITHIN 7.5m OF ALL ROOF TOP MECHANICAL EQUIPMENT, ALL MAINTENANCE RECEPTACLES SHALL BE FED FROM SAME DEDICATED CIRCUIT.
- ALL LOCATIONS FOR MECHANICAL EQUIPMENT ARE APPROXIMATE LOCATIONS ONLY. ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT LOCATION ON SITE WITH MECHANICAL CONTRACTOR.
- PROVIDE FIRE ALARM CONTROL MODULE TO SHUT DOWN MECHANICAL HVAC UNIT UPON ACTIVATION OF FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DUCT TYPE SMOKE DETECTORS FOR EACH SUPPLY AIR DUCT FROM ROOF TOP UNIT.
- PROVIDE WEATHERPROOF ELECTRICAL PROVISIONS/ENCLOSURES/STARTERS ETC. FOR ALL UNITS MOUNTED ON THE BUILDING EXTERIOR AND/OR ROOF.

ABBREVIATION LEGEND

FVNR - FULL VOLTAGE NON-REVERSING STARTER SEP. COMB. - SEPARATE COMBINATION STARTER/DISCONNECT TP. SW.- THERMAL SWITCH WITH PILOT LIGHT 10 MAG - SINGLE PHASE MAGNETIC STARTER/DISCONNECT







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Revision/ Revision	Description/Description	Date/Da
0	ISSUED FOR TENDER	2016-08-1

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

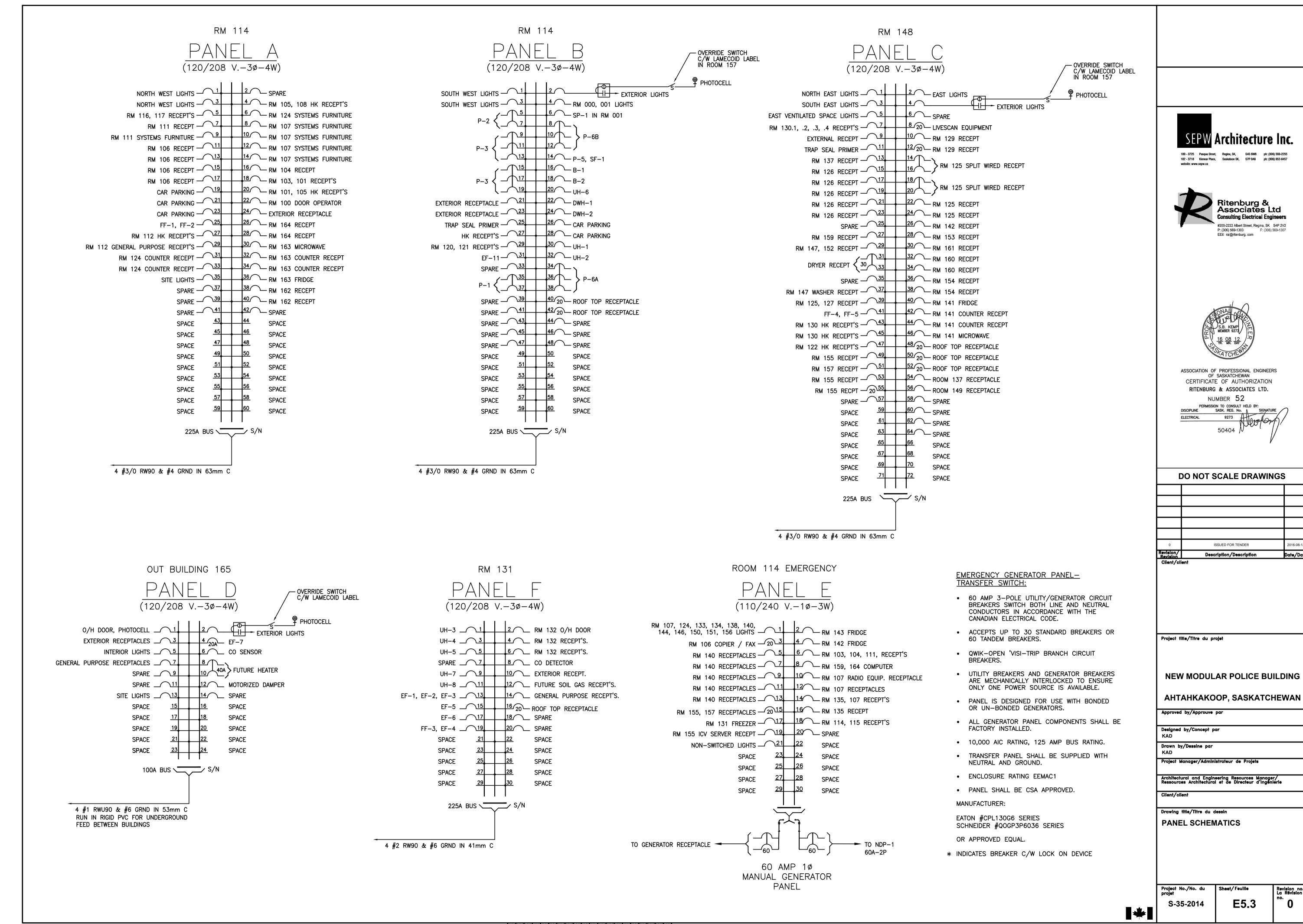
Drawing title/Titre du dessin

MOTOR EQUIPMENT SCHEDULE

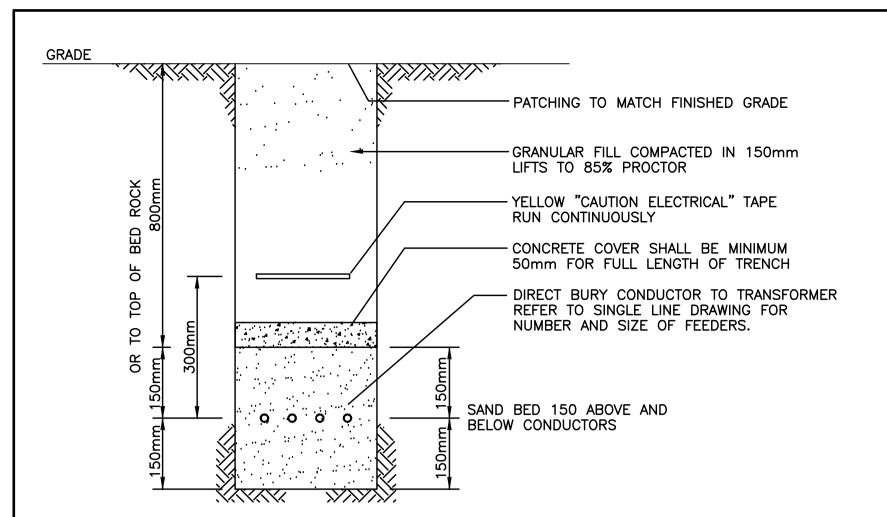
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E5.2



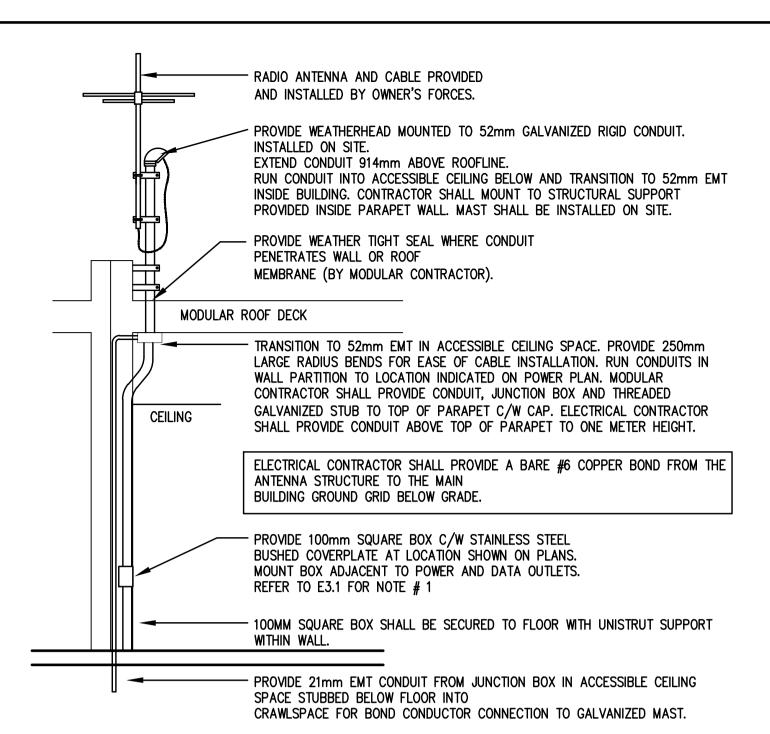
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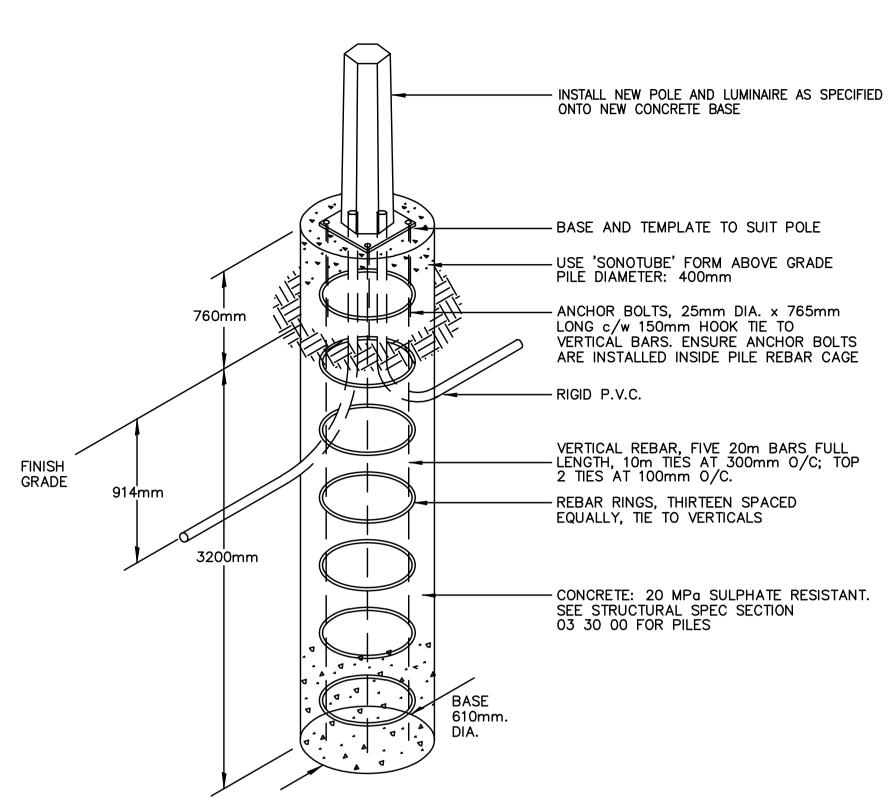
<u>GENERAL NOTES:</u>

1. TRENCH DETAIL INSTALLATION FOR DIRECT BURIED SERVICE CONDUCTORS SHALL COMPLY WITH CANADIAN ELECTRICAL CODE DIAGRAM B4-3 PER RULE 4-004 (1)(d). IF SPACING IS NOT ACCORDANCE WITH DIAGRAM B4-3, IEEE835 IS REQUIRED TO CONFIRM THE CABLE CAPACITY AS STATED IN RULE 4-004(1)(e)

SECONDARY CONDUCTOR TRENCH DETAIL



BASE ANTENNA MOUNTING DETAIL



LIGHT POLE, BASE AND SINGLE LUMINAIRE SHOWN THUS.

PL2 LIGHT POLE, BASE AND DOUBLE LUMINAIRE SHOWN THUS.

3 SITE LIGHTING POST & BASE DETAIL







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NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

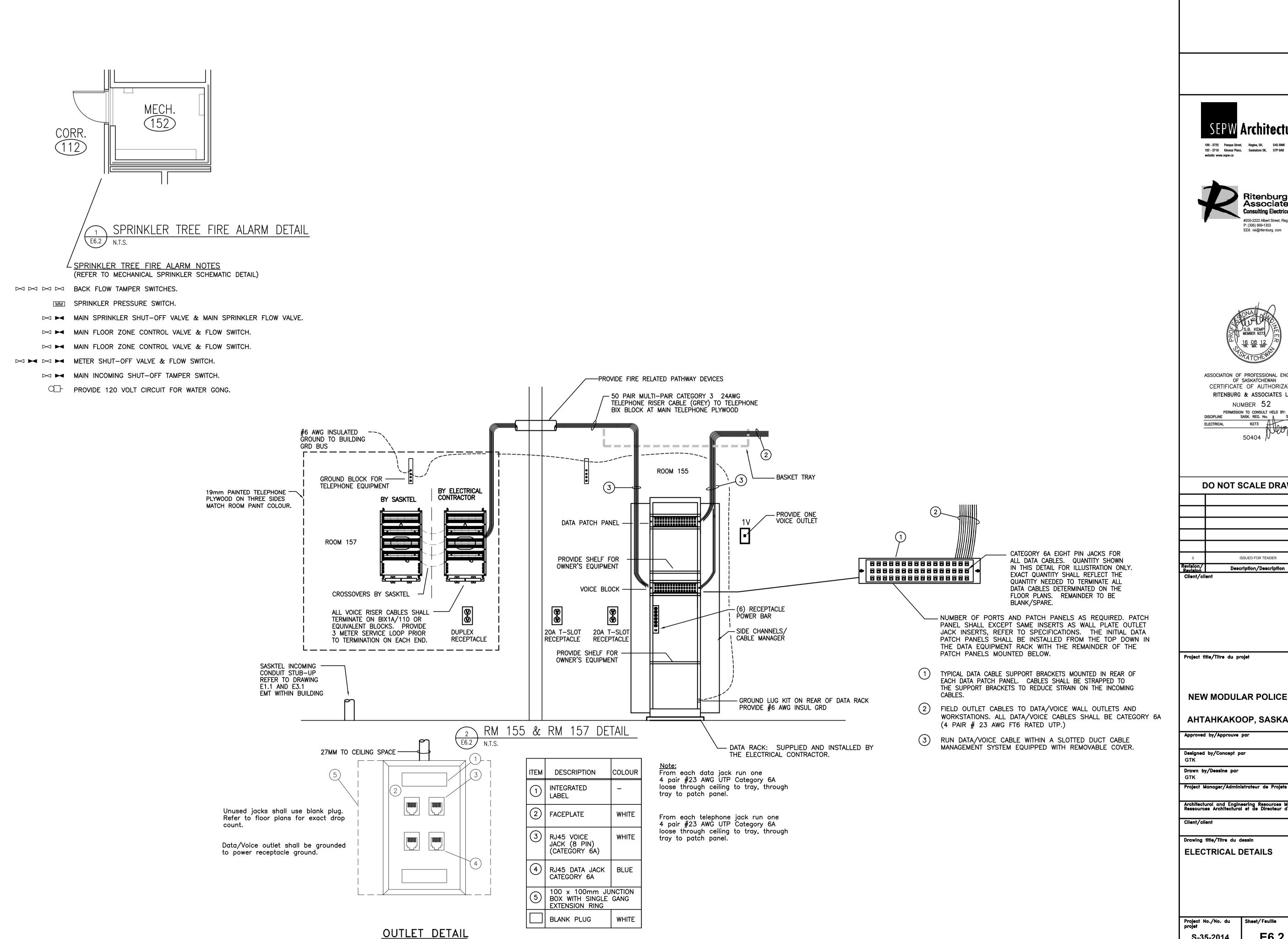
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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Project Manager/Administrateur de Projets

Drawing title/Titre du dessin **ELECTRICAL DETAILS**

E6.1



SEPW Architecture Inc. 102 - 3718 Kinnear Place, Saskatoon SK, S7P 0A6 ph: (306) 652-6457





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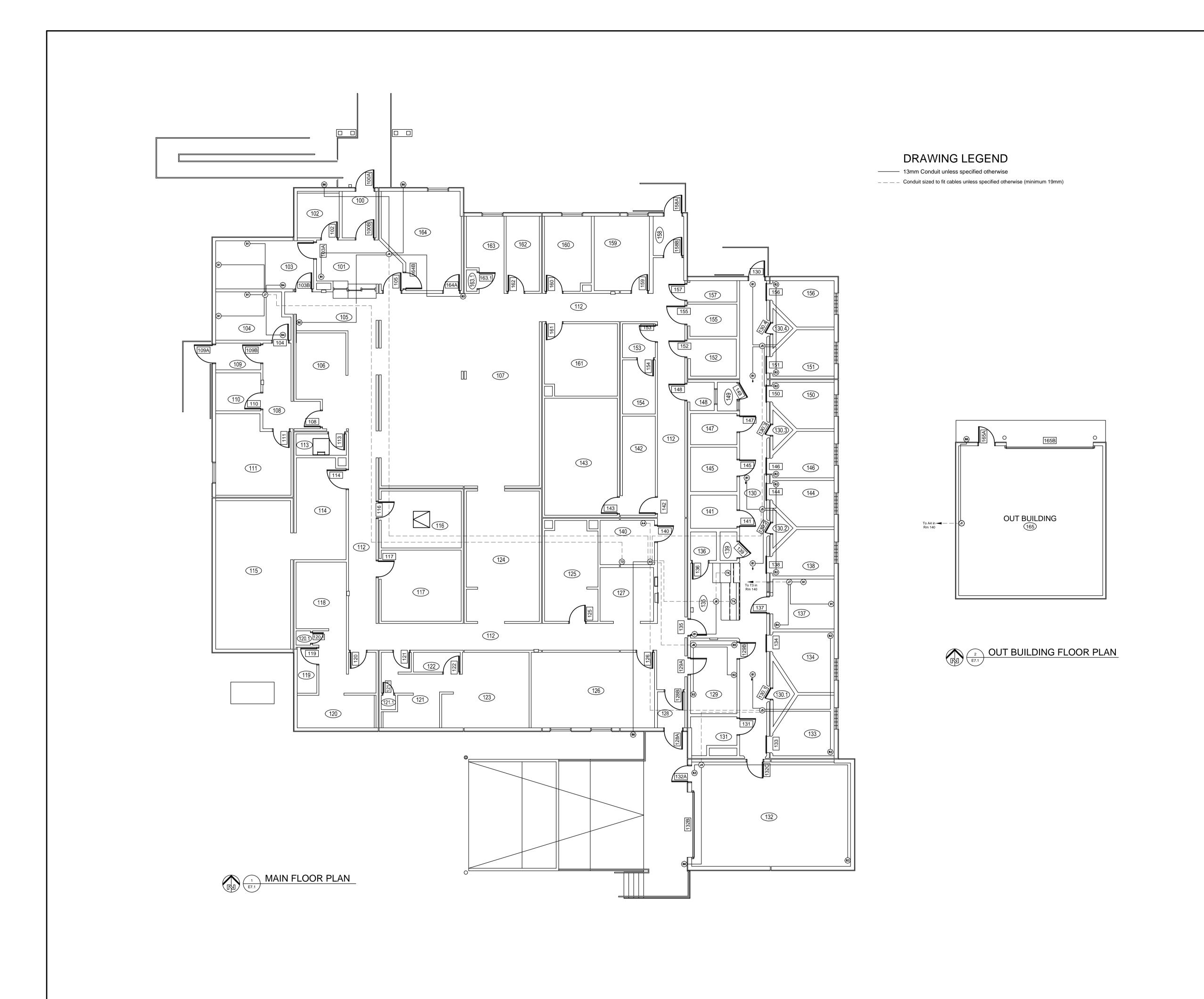
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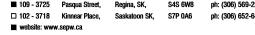
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E6.2

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NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

Designed by/Concept par KAD

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

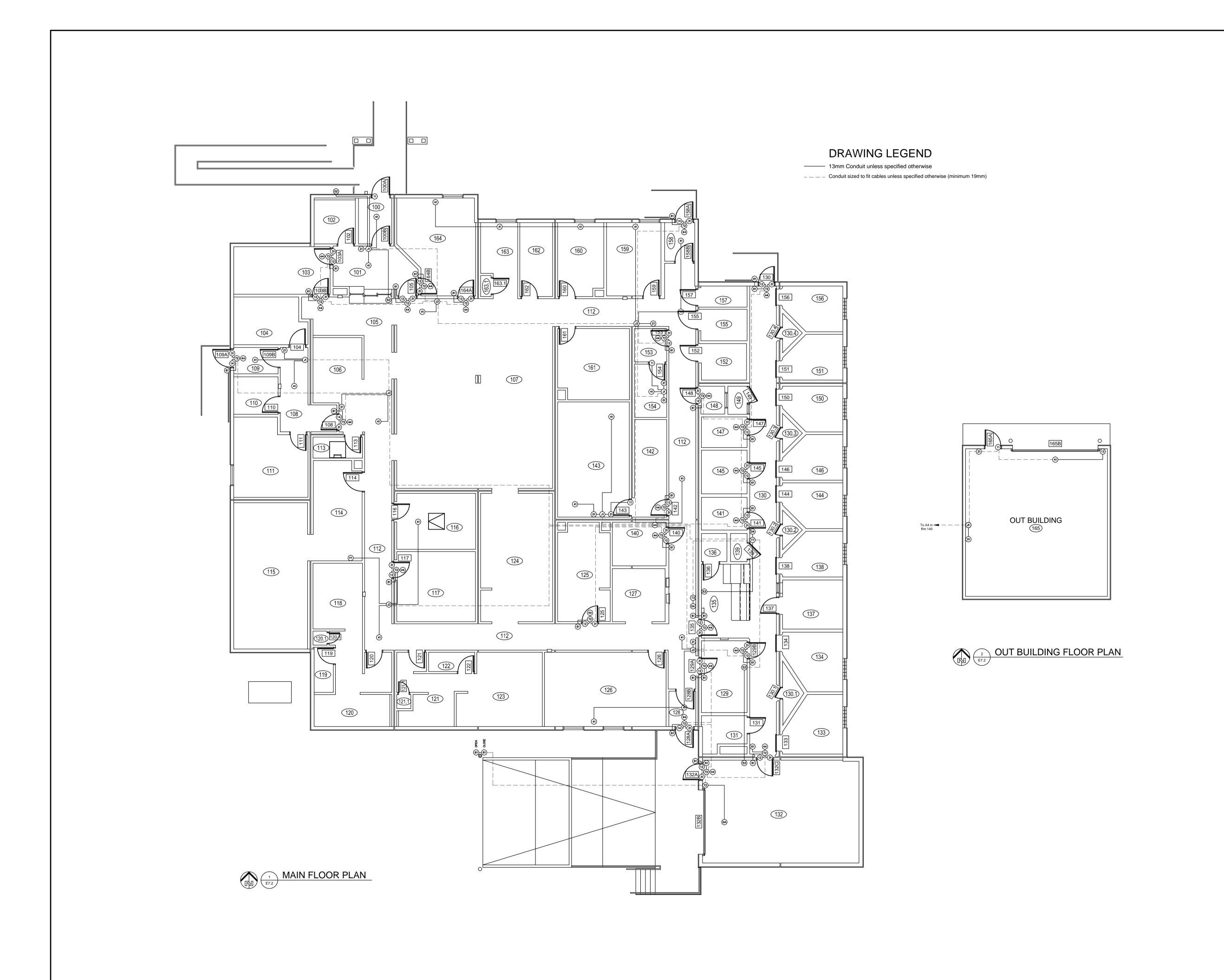
Drawing title/Titre du dessin **CCTV-ALARM SYSTEMS AND** ACCESS CONTROL - AV CONDUIT

ROUGH-IN PLAN

S-35-2014

E7.1

Revision no./ La Révision









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ISSUED FOR TENDER Description/Description

Project title/Titre du projet

NEW MODULAR POLICE BUILDING

AHTAHKAKOOP, SASKATCHEWAN

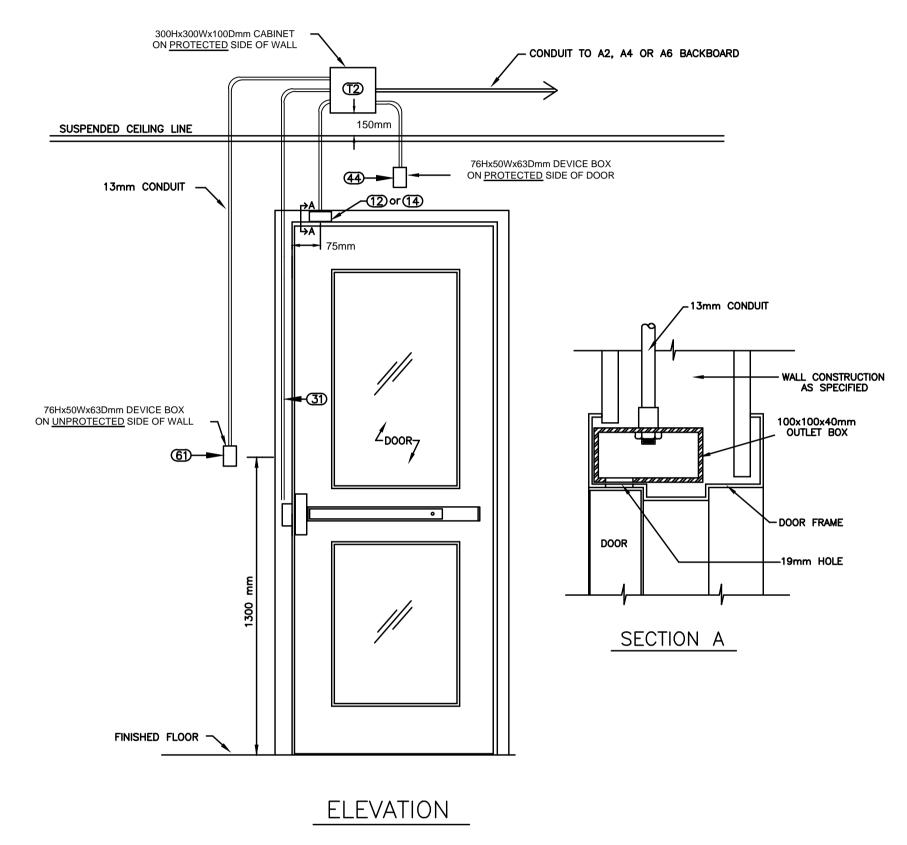
Designed by/Concept par KAD

Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Drawing title/Titre du dessin **CCTV-ALARM SYSTEMS AND** ACCESS CONTROL - EAC & IDS CONDUIT ROUGH-IN PLAN

E7.2

Detail Drawing ACCESS CONTROL - ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE (PANIC HARDWARE)



NOTES:

CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.

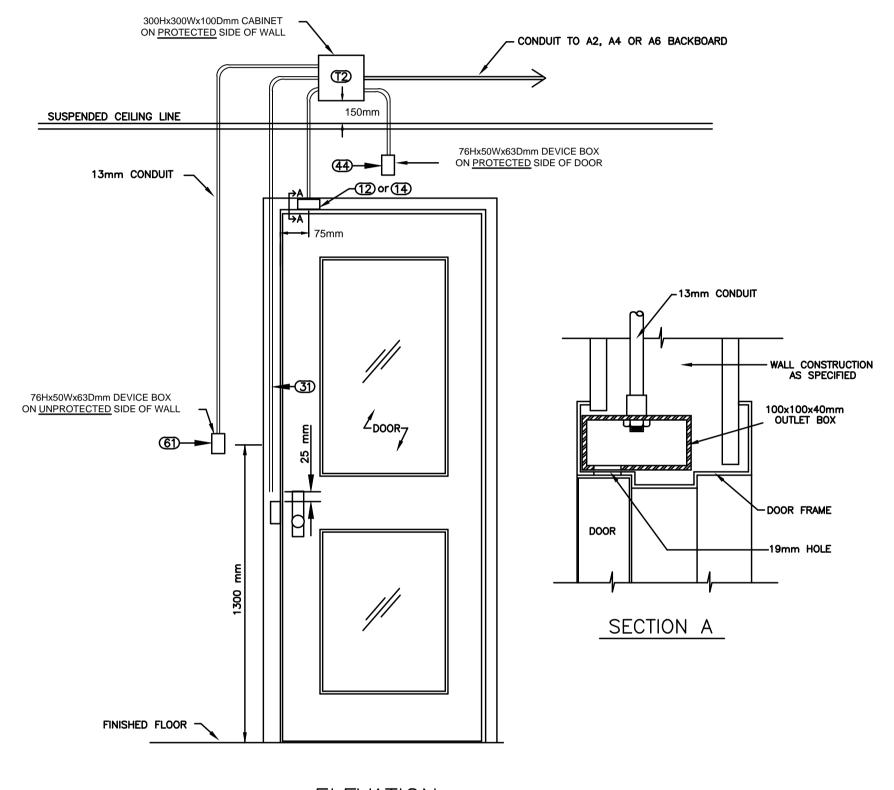
OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

File: Access Control - Single Door, wall mount reader & electric strike as of 20yy-mm-dd.dwg SCALE: N.T.S.

Detail Drawing

ACCESS CONTROL - ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE



ELEVATION

NOTES:

CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

File: Access Control — Single Door, wall mount reader & electric strike as of 20yy—mm—dd.dwg SCALE: N.T.S.







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Designed by/Concept par

Drawn by/Dessine par

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Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie

Client/client

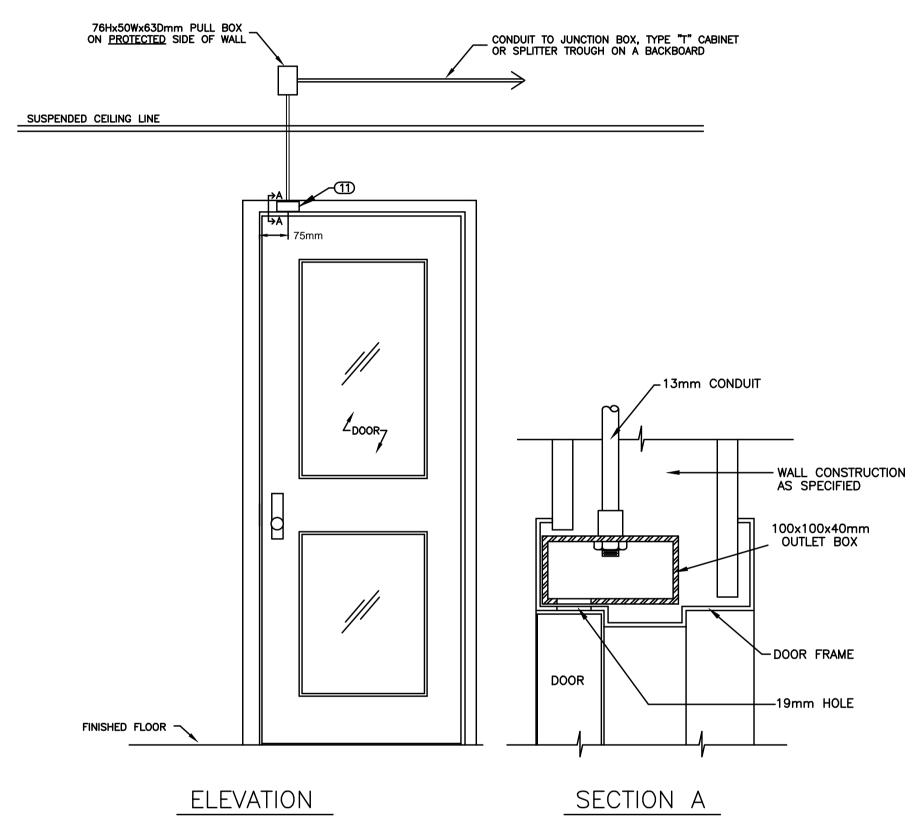
Drawing title/Titre du dessin **CCTV-ALARM SYSTEMS AND** ACCESS CONTROL DETAILS

S-35-2014

E7.3

Detail Drawing

PROTECTED DOOR - ELEVATION OF SINGLE DOOR WITH DOOR CONTACT



NOTES:

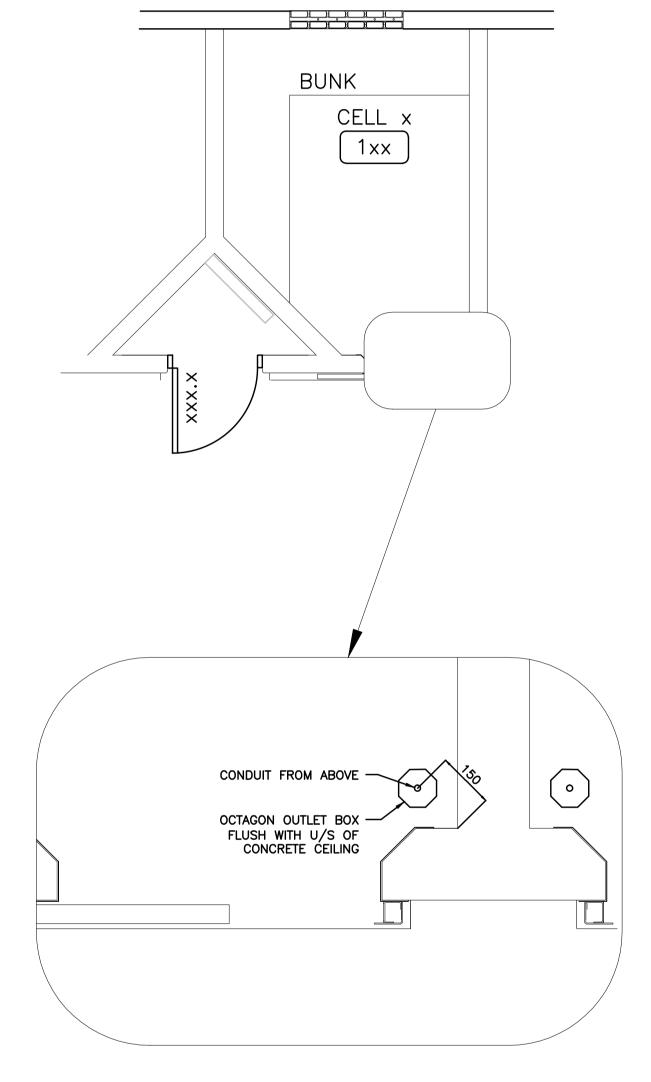
CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO THE OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

File: Data\ACAD\Detail Drawings\Protected Door — Elevation of Single Door as of 20yy—mm—dd.dwg



OCTAGON BOX FOR CORNER MOUNT DOME CAMERA
N.T.S







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Drawing title/Titre du dessin **CCTV-ALARM SYSTEMS AND** ACCESS CONTROL DETAILS AND CORNER MOUNT DOME CAMERA

S-35-2014

E7.4

