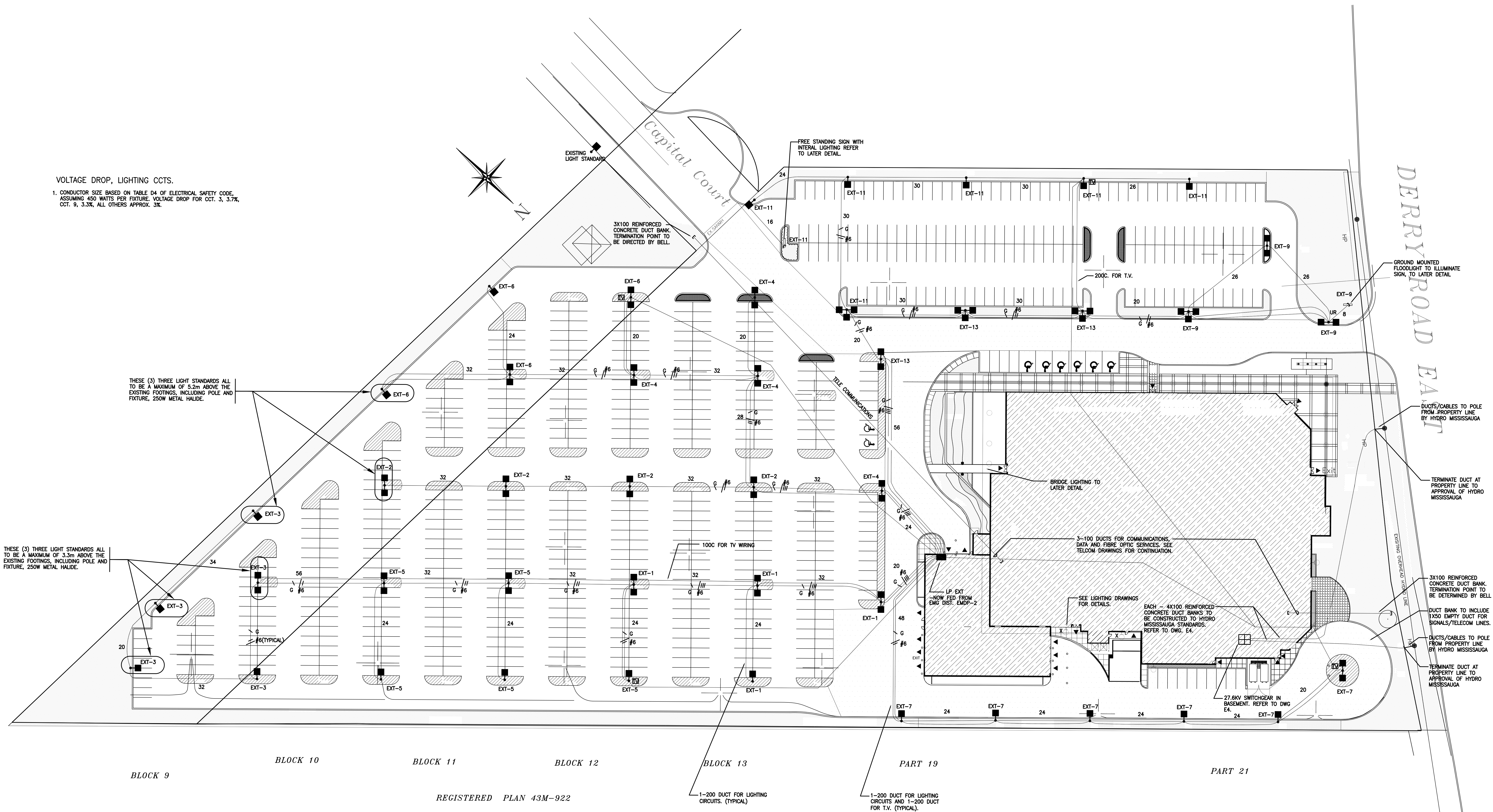


VOLTAGE DROP, LIGHTING CCTS.

1. CONDUCTOR SIZE BASED ON TABLE D4 OF ELECTRICAL SAFETY CODE, ASSUMING 450 WATTS PER FIXTURE. VOLTAGE DROP FOR CCT. 3, 3.7%, CCT. 9, 3.3%, ALL OTHERS APPROX. 3%.

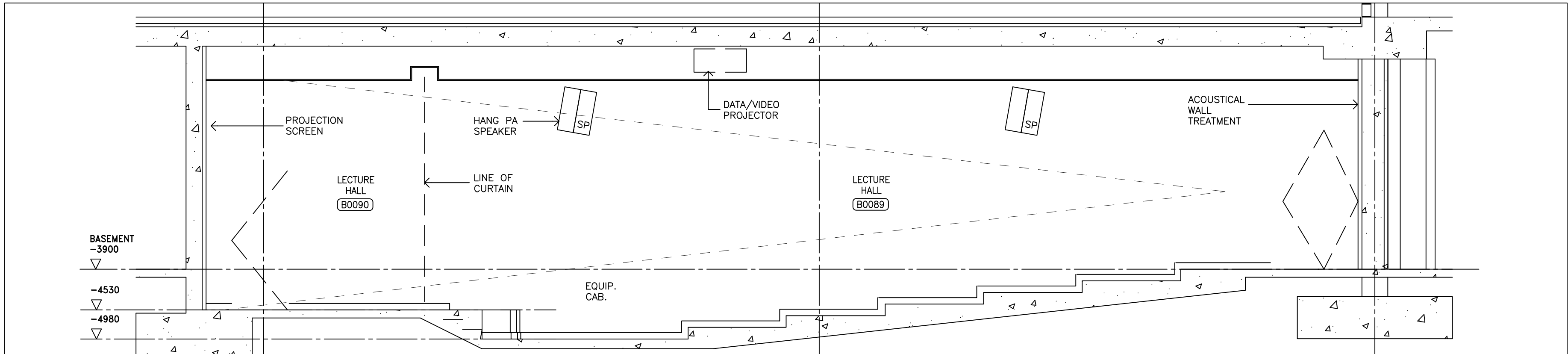
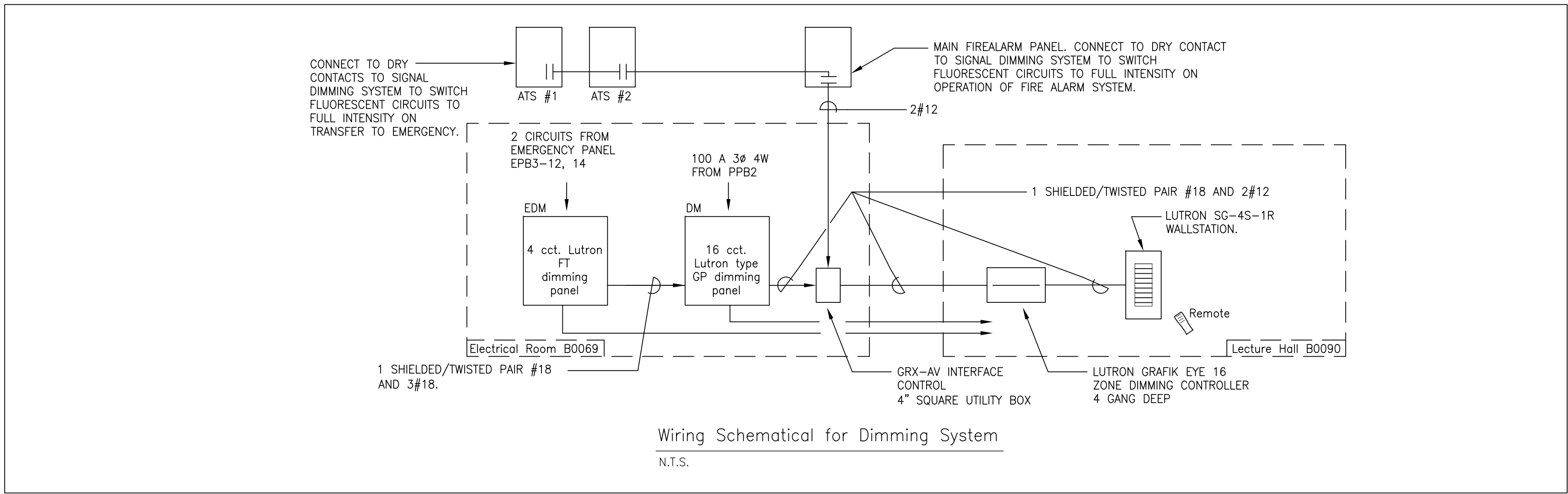


Luminaire Schedule				
Symbol	Arrangement	Lumens	LLF	Description
W2	— X	8500	0.720	Mc GRAW EDISON "VISION SERIES" 100MH
R	—	8500	0.720	COOPER LIGHTING CAT. #M6043T-630
U2	—	40000	0.720	Mc GRAW EDISON "VISION SERIES" 400MH 32' A.F.G.
U1	—	40000	0.720	Mc GRAW EDISON "VISION SERIES" 400MH 32' A.F.G.
U3	—	40000	0.720	Mc GRAW EDISON "VISION SERIES" 400MH 32' A.F.G.
UR	—	40000	0.720	Mc GRAW EDISON "VISION SERIES" 400MH 32' A.F.G.
W1	—	39000	0.720	Mc GRAW EDISON "VISION SERIES" 400MH
IV	—	—	—	INDICATES POLE-MOUNTED T.V. CAMERA. REINFORCED POLE

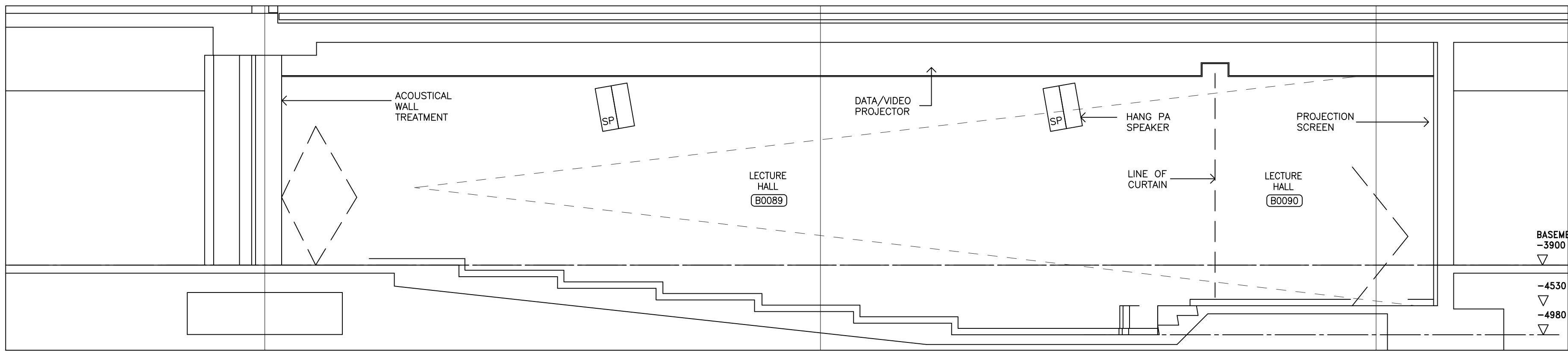
POLES TO BE PROVIDED WITH ART FORM BASE. REFER TO STRUCTURAL & ARCHITECTURAL FOR DETAILS.



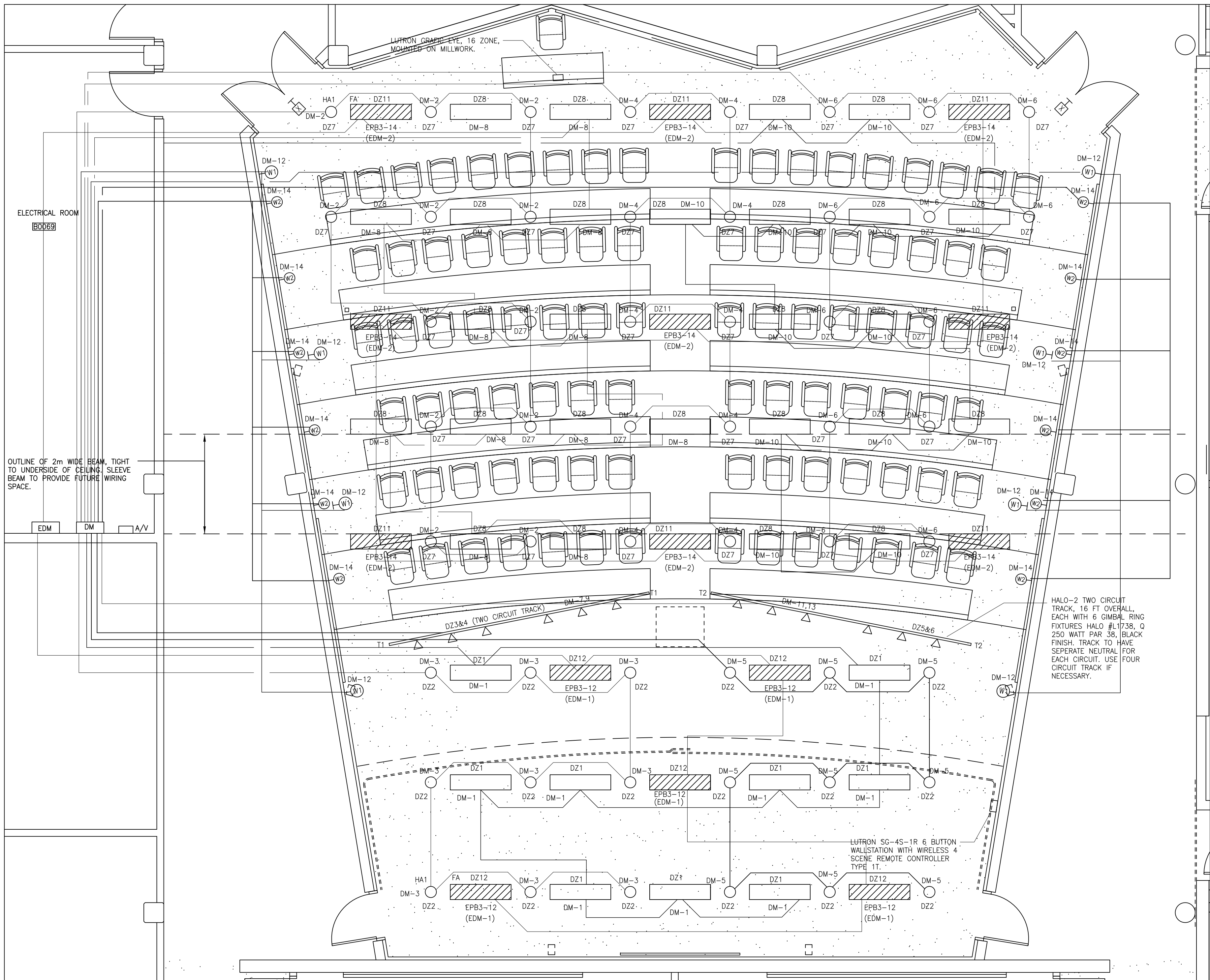
- PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
- DWG: SITE PLAN
ELECTRICAL LAYOUT
- SCALE: 1:400
- REV'D DATE: JAN 2004
- DSGN CHK: M.H.
- DWN BY: R.G.
- DWG No.: E-1
- REV'D No.: -



4 LECTURE HALL INTERIOR ELEVATION
1:50



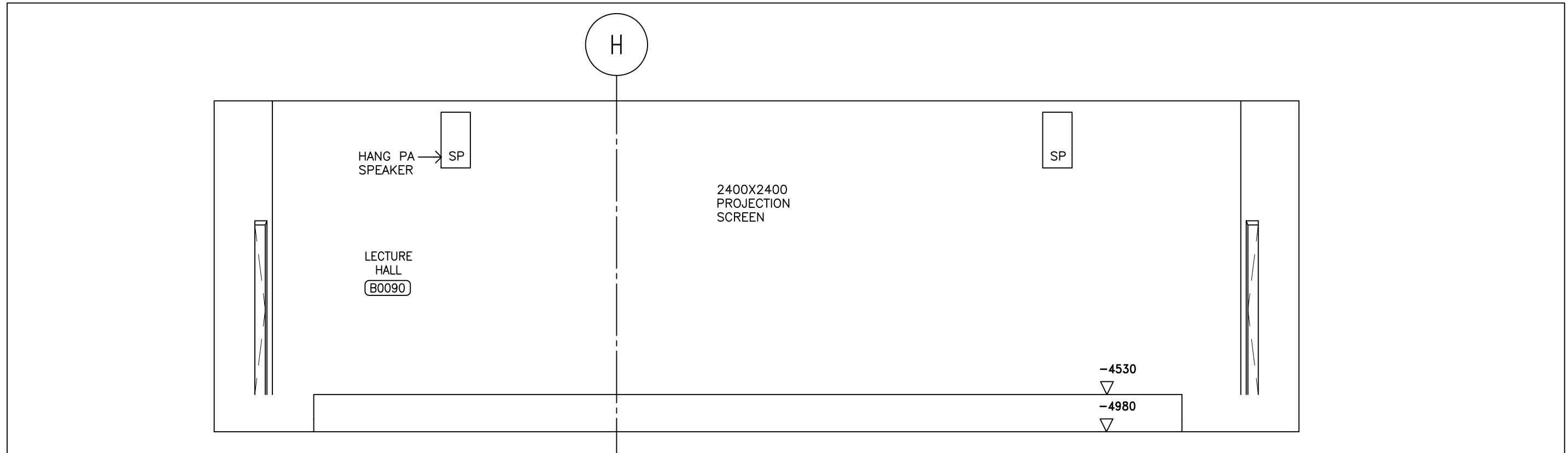
5 LECTURE HALL SECTION
1:50



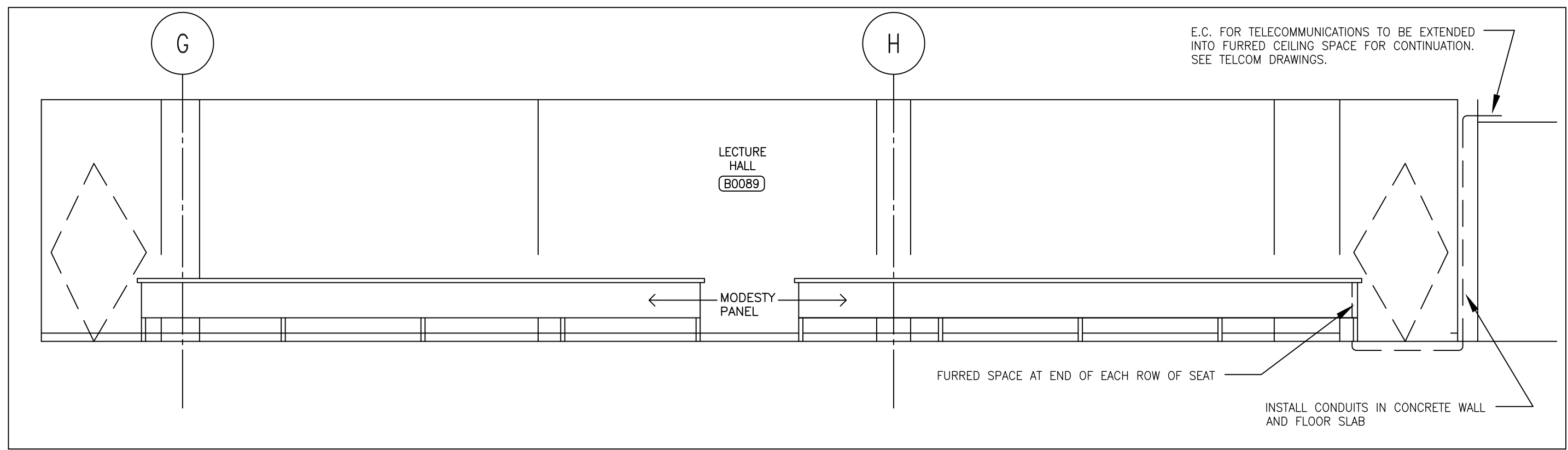
6 LECTURE HALL REFLECTED CEILING PLAN
1:50

LECTURE HALL LIGHTING SCHEDULE (120V 1P)			
Fixture Designation /Symbol	Description	Catalogue No.	Average Maintained f.c.
FA	1'x4' Fluorescent Parabolic	Metolux "Paralux III" EP30K- 2325261 C/W Lutron ECO 10 Dimming Ballast Black Reveal	42+ (0.8 m ²)
HA1	6" Downlight Q90 PAR 38/FL	Portfolio "Incandescent Downlights" HSB-6600C Black Trim	26+ (0.75m ²)
W1	Wall Sconce	To be select by Architect	
W2	Aisle light, wall	Lumiere "Zuma" 1211 9W twin tube compact fluorescent step light withouvered face plate in black	
△ △ △	Track Light	See ⑥	

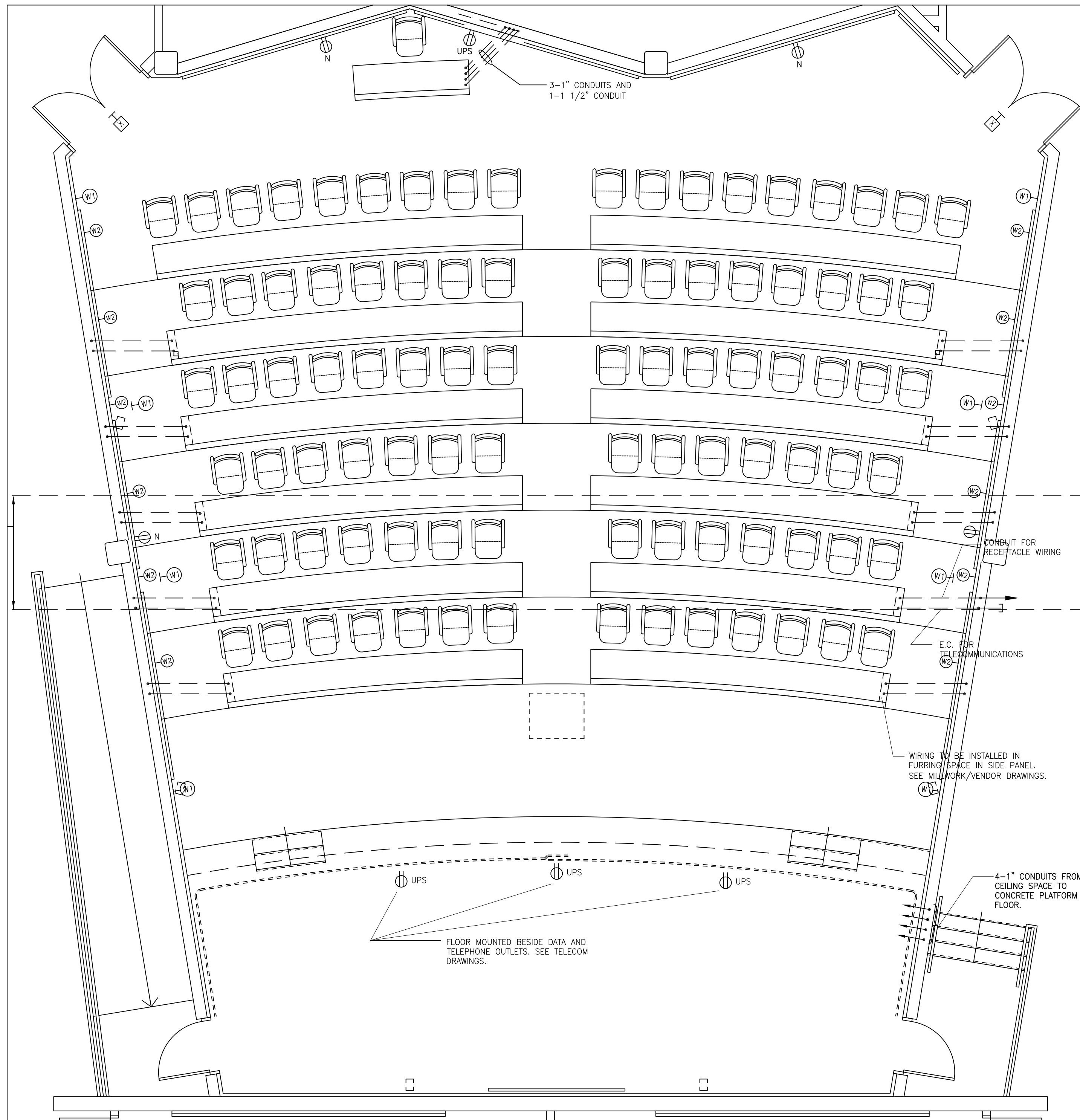
DIMMING ZONES	
Zone	Description
D21	F.O.H. Fluorescent
D22	F.O.H. Incandescent
D23	Track T1, cct. 1
D24	Track T1, cct. 2
D25	Track T2, cct. 1
D26	Track T2, cct. 2
D27	B.O.H. Incandescent
D28	B.O.H. Fluorescent
Z9	Side lights (on-off control)



3 LECTURE HALL INTERIOR ELEVATION
1:50



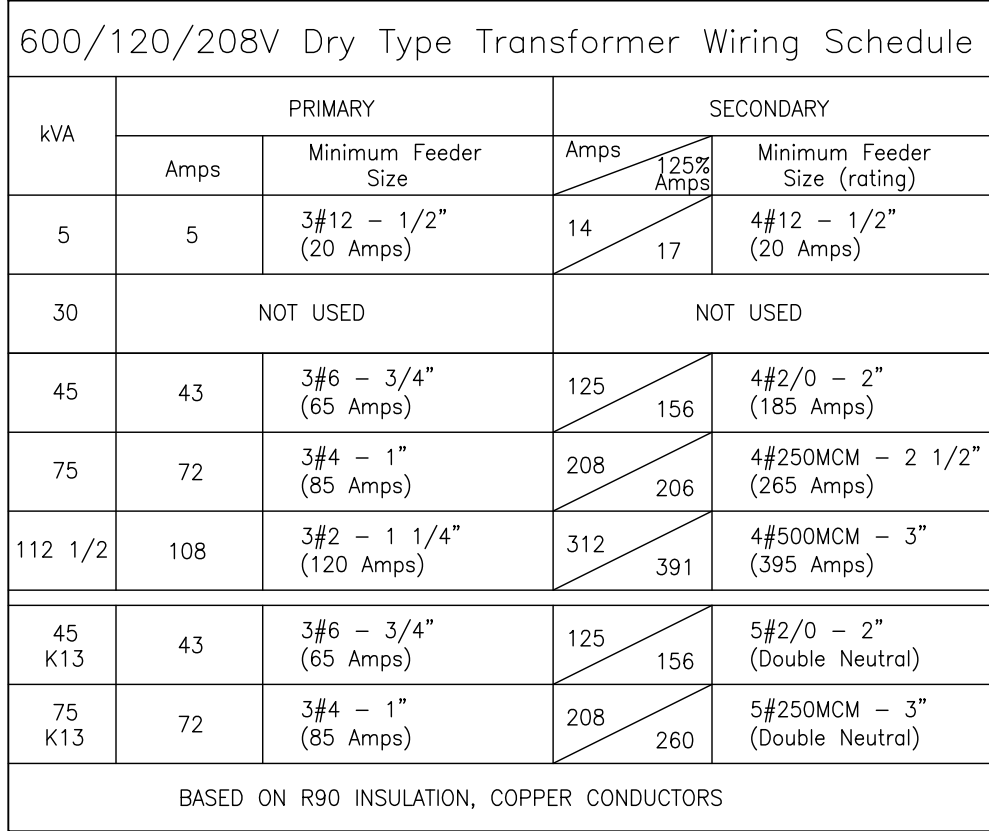
2 LECTURE HALL INTERIOR ELEVATION
1:50



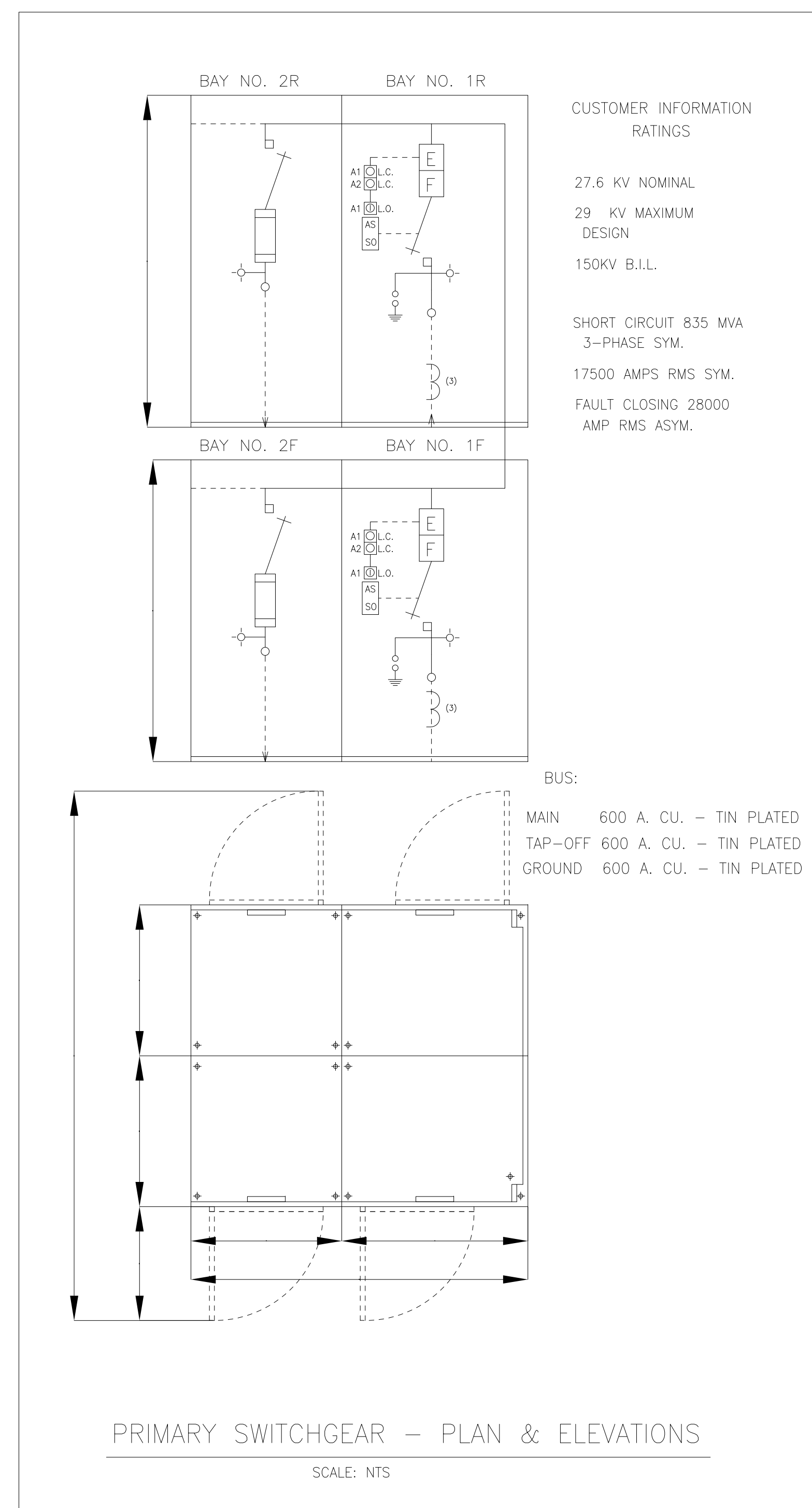
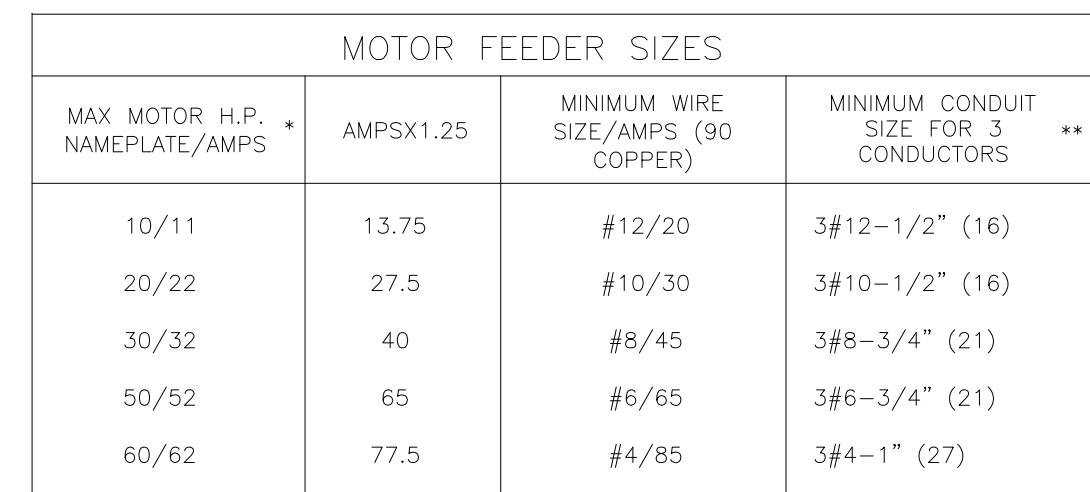
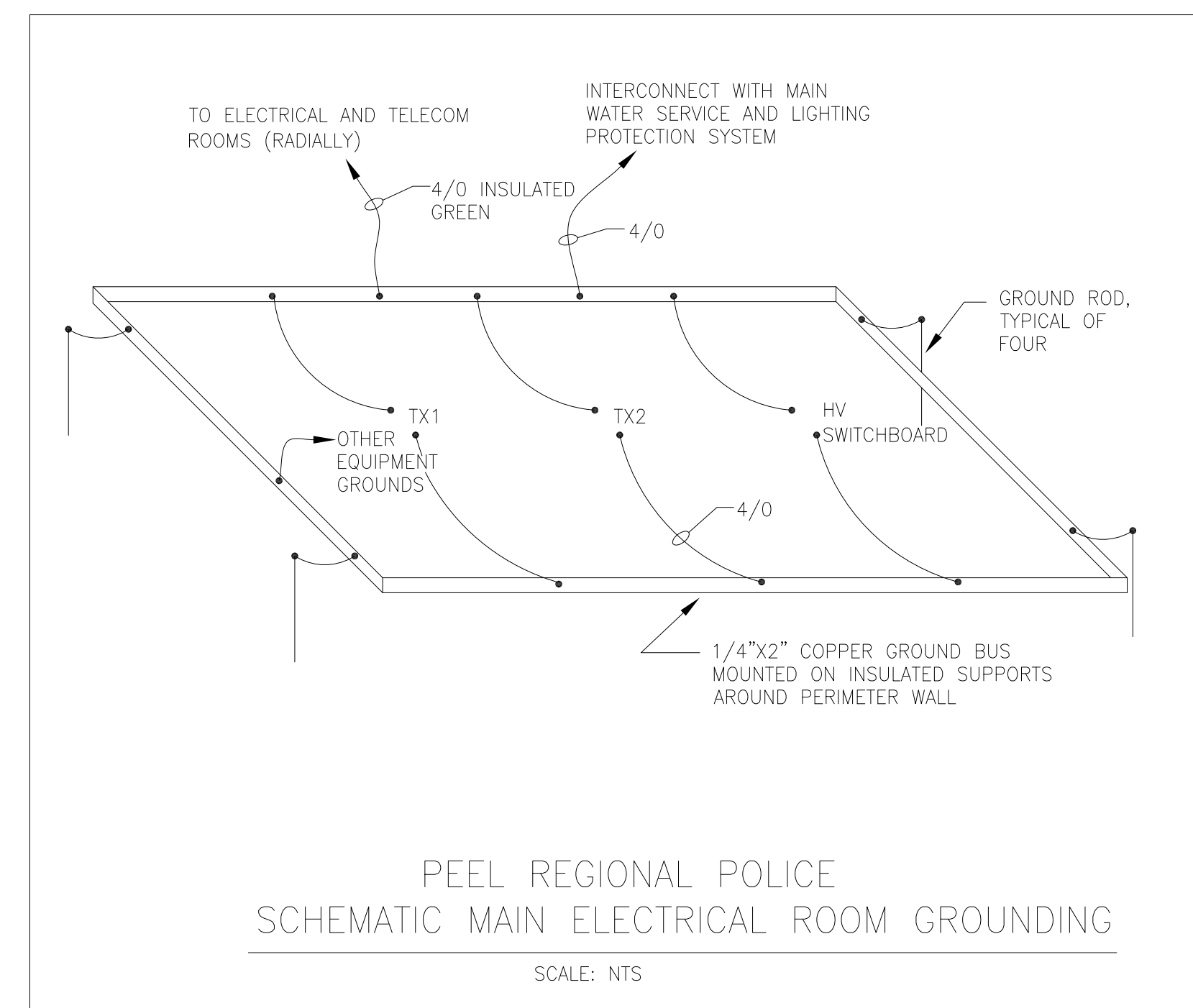
1 LECTURE HALL PLAN
1:50



- PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
- DWG: LECTURE HALL LIGHTING LAYOUT
- SCALE: 1:50
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-2
REV'D No.: -



☐ SCALE: NTS
☐ REV'N DATE: JAN 2004
☐ DSGN CHK: M.H.
☐ DWN BY: R.G.
☐ DWG No.: E-3
☐ REV'N No.: -



CONNECT IN ACCORDANCE WITH
FIGURE 21 AND FIGURE 22,
CAN/ULC-5524-01

ZONE SCHEDULE

ALARM ZONE	
Z1	STAIR #1
Z2	STAIR #2
Z3	STAIR #3
Z4	STAIR #4
Z5	STAIR #5
Z6	ELEVATOR #1
Z7	ELEVATOR #2
Z8	ELEVATOR #3
Z9	BASEMENT - NORTH
Z10	BASEMENT - SOUTH
Z11	AHJ#51 - DUCT SMOKE DETECTOR
Z12	AHJ#52 - DUCT SMOKE DETECTOR
Z13	AHJ#53 - DUCT SMOKE DETECTOR
Z14	AHJ#54 - DUCT SMOKE DETECTOR
Z15	AHJ#55 - DUCT SMOKE DETECTOR
Z16	AHJ#56 - DUCT SMOKE DETECTOR
Z17	GROUND - NORTH
Z18	GROUND - SOUTH
Z19	TECTICAL VEHICLES AND INDOOR PARKING
Z20	SPARE
Z21	BUNKER
Z22	AMMUNITION STORAGE
Z23	FIRING RANGE
Z24	METER ROOM
Z25	SECOND - NORTH
Z26	SECOND - SOUTH
Z27	SPARE
Z28	SPARE
Z29	THIRD - NORTH
Z30	THIRD - SOUTH
Z31	THIRD FLOOR - VAULT (FUTURE)
Z32	SPARE
Z33	SPARE
Z34	SPRINKLER - NORTH SYSTEM ALARM CHECK VALVE
Z35	SPRINKLER - SOUTH SYSTEM ALARM CHECK VALVE
Z36	SPRINKLER - BASEMENT NORTH FLOW SWITCH
Z37	SPRINKLER - BASEMENT SOUTH FLOW SWITCH
Z38	SPRINKLER - BASEMENT PREACTION-ALARM
Z39	WINDOW SPRINKLER SYSTEM - STAIR #1
Z40	BASEMENT WINDOW SPRINKLERS - STAIR #1
Z41	SPRINKLER - GROUND FLOOR NORTH FLOW SWITCH
Z42	SPRINKLER - GROUND FLOOR SOUTH FLOW SWITCH
Z43	SPRINKLER - GROUND FLOOR PREACTION-ALARM
Z44	GROUND FLOOR WINDOW SPRINKLERS - STAIR #1
Z45	SPARE
Z46	SPRINKLER GROUND FLOOR DRY TYPE VALVE
Z47	SPARE
Z48	SPARE
Z49	SPRINKLER - SECOND FLOOR NORTH FLOW SWITCH
Z50	SPRINKLER - SECOND FLOOR SOUTH FLOW SWITCH
Z51	SPRINKLER - THIRD FLOOR NORTH FLOW SWITCH
Z52	SPRINKLER - THIRD FLOOR SOUTH FLOW SWITCH
Z53	SPARE
Z54	2ND FLOOR WINDOW SPRINKLERS - STAIR #1
Z55	3RD FLOOR WINDOW SPRINKLERS - STAIR #1
Z56	SPARE
SUPERVISORY ZONE	
S1	BASEMENT WINDOW SPRINKLERS - STAIR #1
S2	SPRINKLER - MAIN SHUT-OFF VALVE
S3	SPRINKLER - NORTH SYSTEM SHUT-OFF VALVE
S4	NORTH SYSTEM - PRESSURE SWITCH
S5	NORTH SYSTEM - LOW PRESSURE SWITCH
S6	SOUTH SYSTEM SHUT-OFF VALVE
S7	SOUTH SYSTEM - PRESSURE SWITCH
S8	SOUTH SYSTEM - LOW PRESSURE SWITCH
S9	BASEMENT NORTH SHUT-OFF VALVE
S10	BASEMENT SOUTH SHUT-OFF VALVE
S11	BASEMENT PREACTION TROUBLE
S12	WINDOW SPRINKLER SYSTEM - STAIR #1
S13	SPRINKLER - GROUND FLOOR NORTH SHUT-OFF VALVE
S14	SPRINKLER - GROUND FLOOR SOUTH SHUT-OFF VALVE
S15	SPRINKLER - GROUND FLOOR PREACTION TROUBLE
S16	BASEMENT WINDOW SPRINKLERS - STAIR #1
S17	SPRINKLER - GROUND FLOOR DRY SYSTEM SHUT-OFF VALVE
S18	SPRINKLER - GROUND FLOOR DRY SYSTEM PRESSURE SWITCH
S19	SPRINKLER - GROUND FLOOR DRY SYSTEM LOW PRESSURE SWITCH
S20	GROUND FLOOR WINDOW SPRINKLERS - STAIR #1
S21	SPARE
S22	SPRINKLER - 2ND FLOOR NORTH SHUT-OFF VALVE
S23	SPRINKLER - 2ND FLOOR SOUTH SHUT-OFF VALVE
S24	2ND FLOOR WINDOW SPRINKLERS - STAIR #1
S25	SPARE
S26	SPRINKLER - 3RD FLOOR NORTH SHUT-OFF VALVE
S27	SPRINKLER - 3RD FLOOR SOUTH SHUT-OFF VALVE
S28	3RD FLOOR WINDOW SPRINKLERS - STAIR #1
S29	SPARE
S30	GENERATOR RUNNING
S31	GENERATOR TROUBLE
S32	SPARE
S33	SPARE
S34	SPARE
S35	SPARE
S36	SPARE
S37	SPARE
S38	SPARE
S39	SPARE
S40	SPARE
RELAYS	
R1	FAN SHUTDOWN
R2	DOOR LOCK RELEASE
R3	LECTURE HALL LTO
R4	SPARE
R5	SPARE
R6	SPARE
R7	SPARE
R8	SPARE
ONE-WAY VOICE COMMUNICATION SYSTEM SCHEDULE	
1	BASEMENT NORTH
2	BASEMENT SOUTH
3	GROUND NORTH
4	GROUND SOUTH
5	SECOND NORTH
6	SECOND SOUTH
7	THIRD NORTH
8	THIRD SOUTH
9	SPARE
10	SPARE
11	SPARE
12	SPARE
13	SPARE
14	SPARE
15	SPARE
16	SPARE

DISPLAY MODULE 1

DISPLAY MODULE 2

DISPLAY MODULE 3

DISPLAY MODULE 4

DISPLAY MODULE 5

DISPLAY MODULE 6

DISPLAY MODULE 7

DISPLAY MODULE 8

DISPLAY MODULE 9

DISPLAY MODULE 10

DISPLAY MODULE 11

DISPLAY MODULE 12

DISPLAY MODULE 13

DISPLAY MODULE 14

DISPLAY MODULE 15

- LEGEND OF SYMBOLS
- AREA SMOKE DETECTOR, R-REMOTE CONTACT
 - MANUAL ALARM STATION
 - RECESSED CEILING SPEAKER, 4" ROUND
 - HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED
 - HORN WITH STROBE
 - 120 VOLT SYSTEM CLOCK
 - ISOLATOR
 - HEAT DETECTOR
 - SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS
 - PRE-ACTION CABINET
 - ALARM/CHECK VALVE
 - SHUT-OFF VALVE
 - DUCT SMOKE DETECTOR

28 ELEVATOR #3

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

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22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

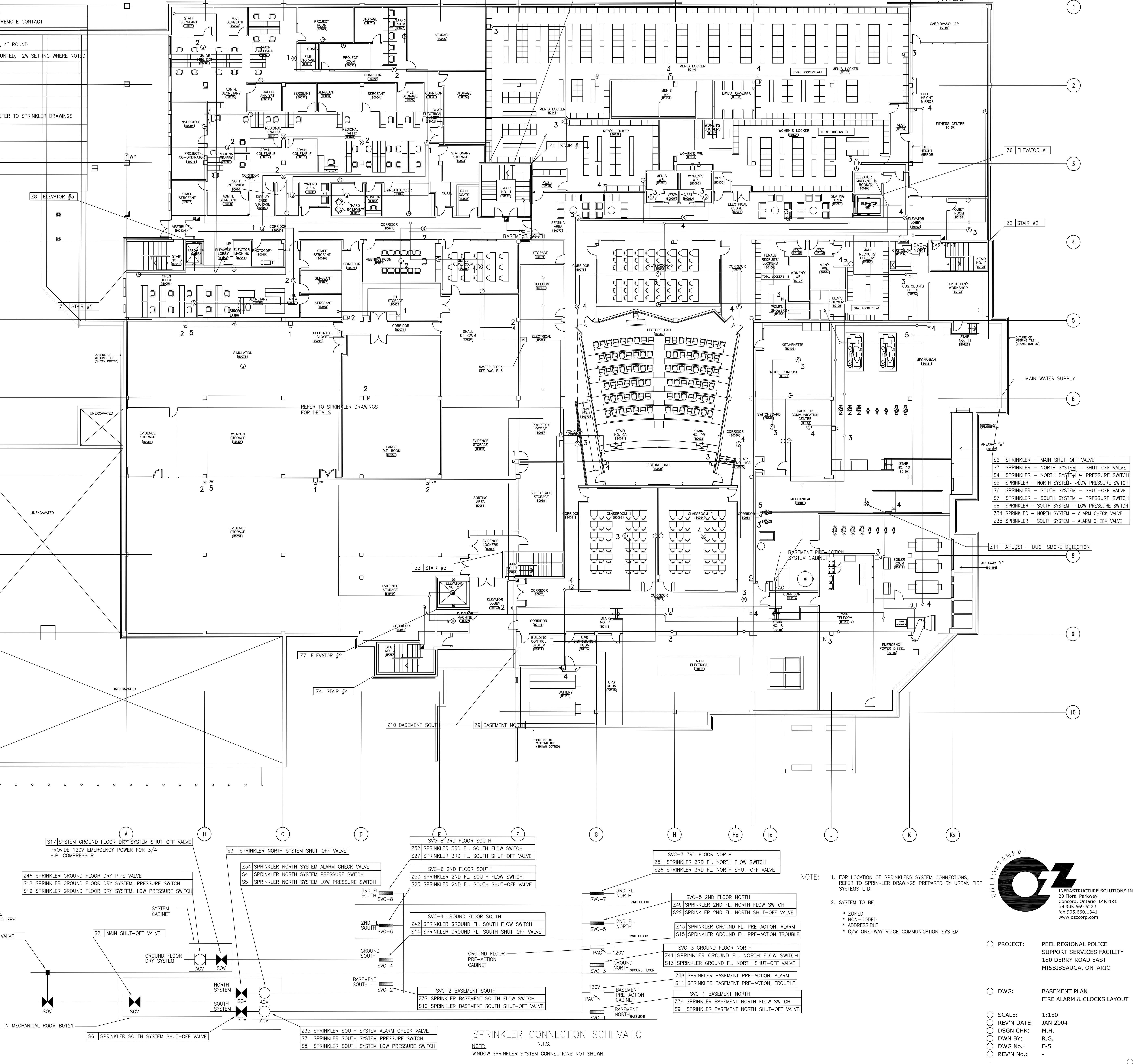
22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5

22 STAIR #5



NOTE: 1. FOR LOCATION OF SPRINKLERS SYSTEM CONNECTIONS, REFER TO SPRINKLER DRAWINGS PREPARED BY URBAN FIRE SYSTEMS LTD.
2. SYSTEM TO BE:
• ZONED
• NON-CODED
• ADDRESSABLE
• C/W ONE-WAY VOICE COMMUNICATION SYSTEM

PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY 180 DERRY ROAD EAST MISSISSAUGA, ONTARIO

DWG: BASEMENT PLAN FIRE ALARM & CLOCKS LAYOUT

SCALE: 1:150

REV'D DATE: JAN 2004

DSGN CHK: M.H.

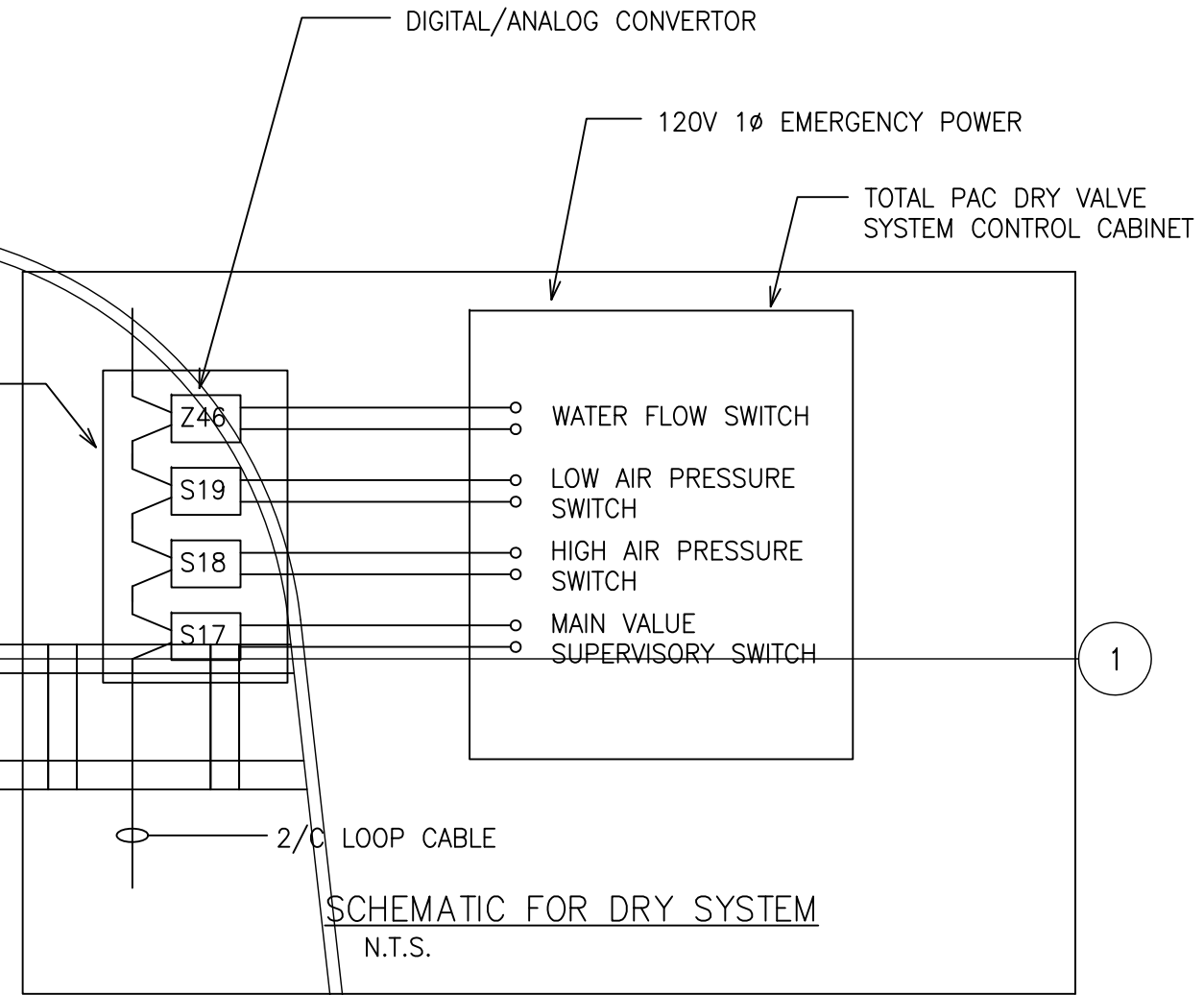
DWN BY: R.G.

DWG No.: E-5

REV'D No.: -

ENLIGHTENED
QZ
INFRASTRUCTURE SOLUTIONS INC.
20 Floral Parkway
Concord, Ontario L4K 4R1
tel 905.660.6223
fax 905.660.1241
www.qzcorp.com

SVC - XX STAIR #1
Z44 GROUND FLOOR WINDOW SPRINKLERS - FLOW
S20 GROUND FLOOR WINDOW SPRINKLERS - SHUT-OFF VALVE



LEGEND OF SYMBOLS	
	AREA SMOKE DETECTOR, R-REMOTE CONTACT
	MANUAL ALARM STATION
	RECESSED CEILING SPEAKER, 4" ROUND
	HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED
	HORN WITH STROBE
	120 VOLT SYSTEM CLOCK
	ISOLATOR
	HEAT DETECTOR
	SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS
	PRE-ACTION CABINET
	ALARM/CHECK VALVE
	SHUT-OFF VALVE
	DUCT SMOKE DETECTOR

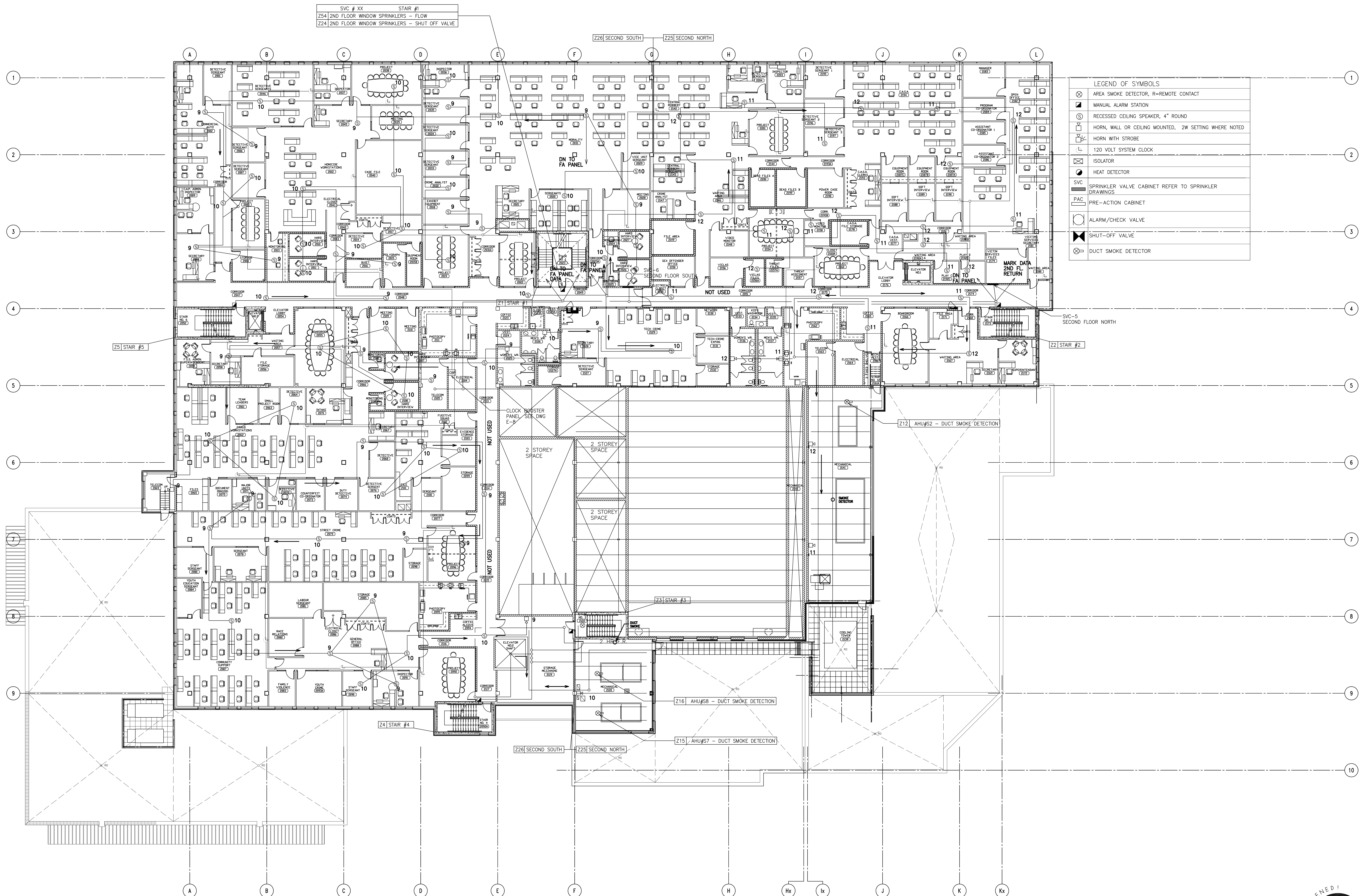
NOTE: 1. FOR LOCATION OF SPRINKLERS SYSTEM CONNECTIONS, REFER TO SPRINKLERS DRAWINGS.
2. SYSTEM TO BE:
• ZONED
• NON-CODED
• ADDRESSABLE
• C/W ONE-WAY VOICE COMMUNICATION SYSTEM



PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: GROUND FLOOR PLAN
FIRE ALARM & CLOCKS LAYOUT

SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-6
REV'D No.: -



LEGEND OF SYMBOLS	
	AREA SMOKE DETECTOR, R-REMOTE CONTACT
	MANUAL ALARM STATION
	RECESSED CEILING SPEAKER, 4\"/>
	HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED
	HORN WITH STROBE
	120 VOLT SYSTEM CLOCK
	ISOLATOR
	HEAT DETECTOR
	SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS
	PRE-ACTION CABINET
	ALARM/CHECK VALVE
	SHUT-OFF VALVE
	DUCT SMOKE DETECTOR

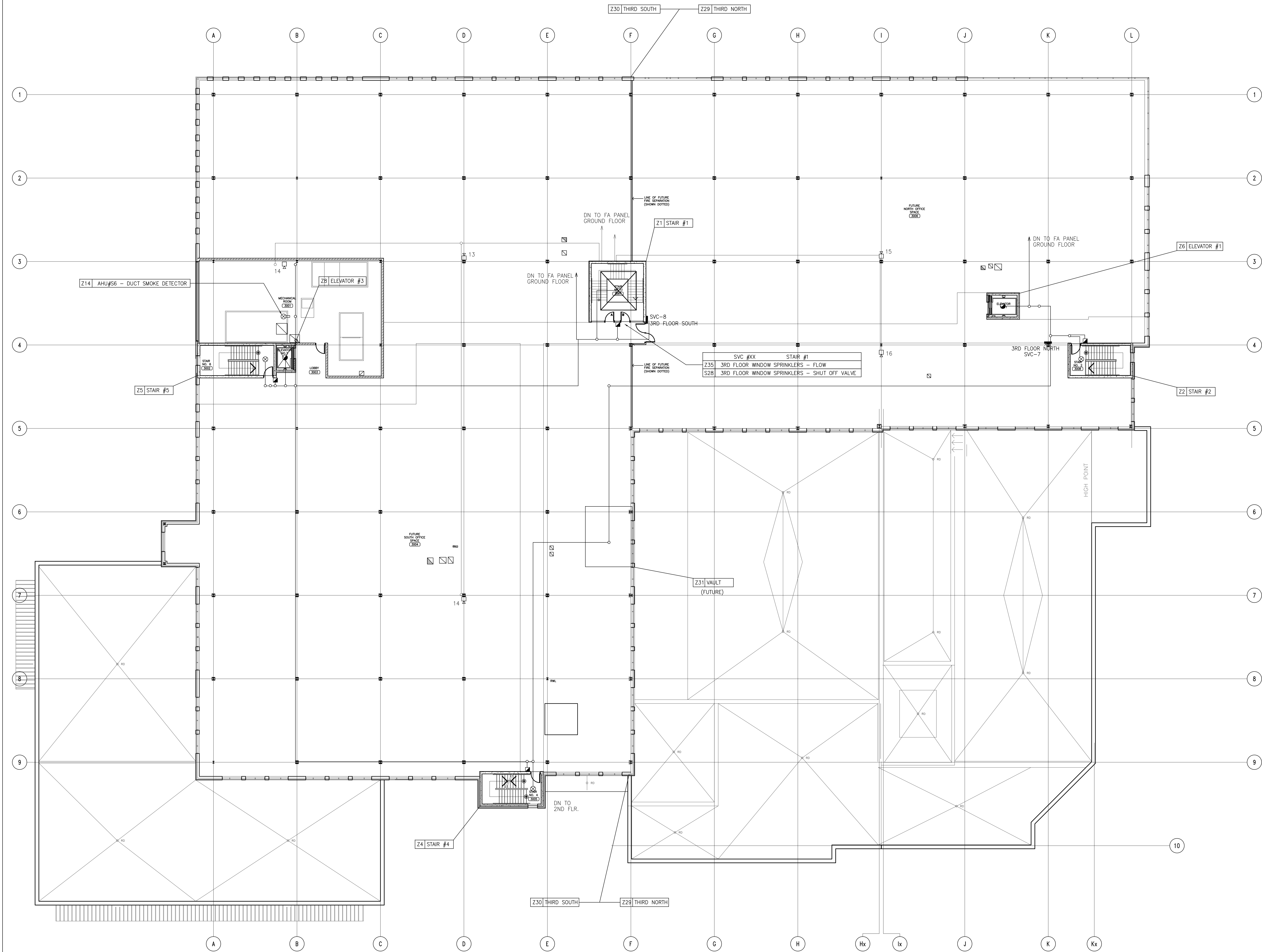
NOTE: 1. FOR LOCATION OF SPRINKLERS SYSTEM CONNECTIONS, REFER TO SPRINKLERS DRAWINGS.
2. SYSTEM TO BE:
• ZONED
• NON-CODED
• ADDRESSIBLE
• C/W ONE-WAY VOICE COMMUNICATION SYSTEM



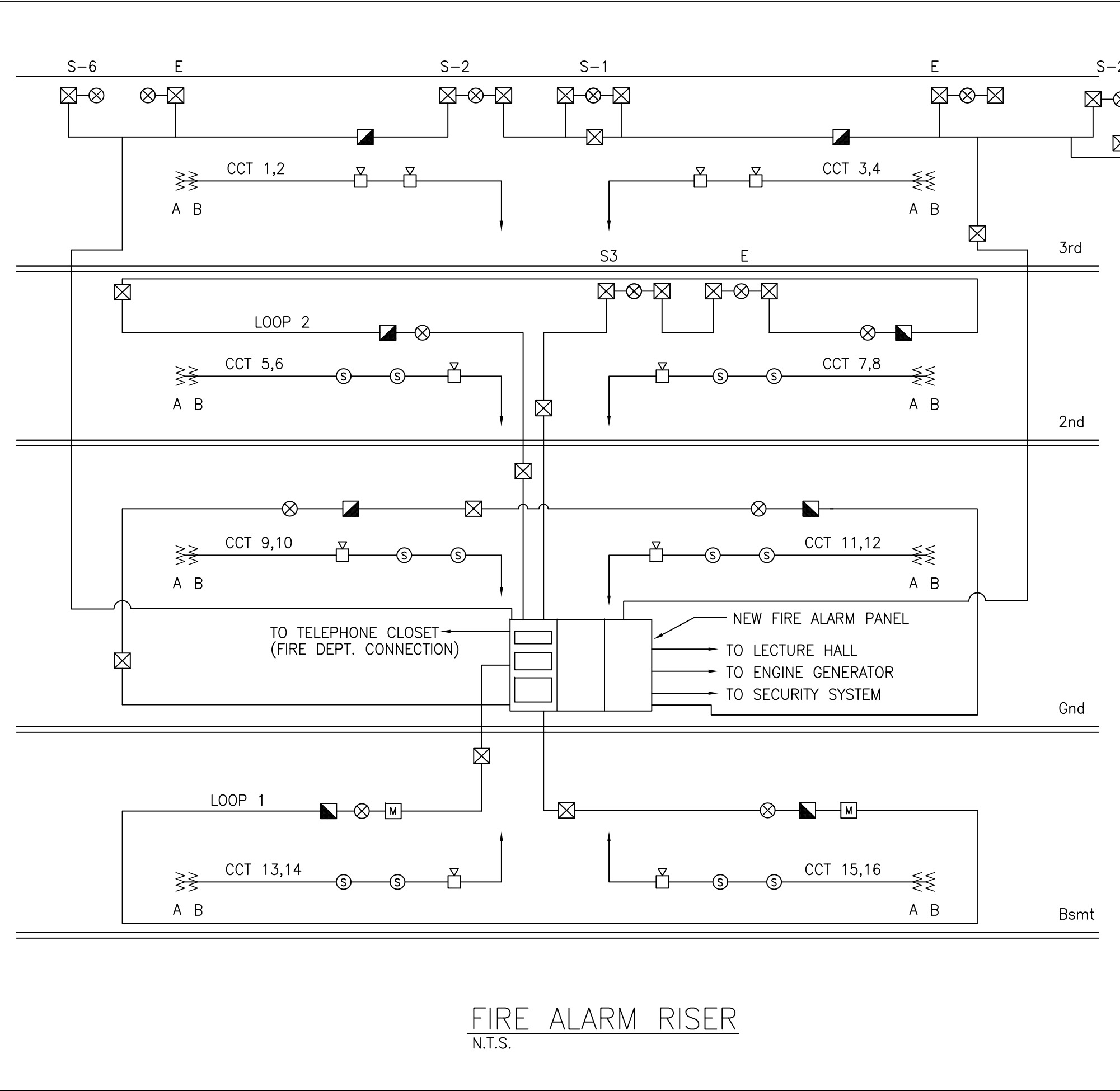
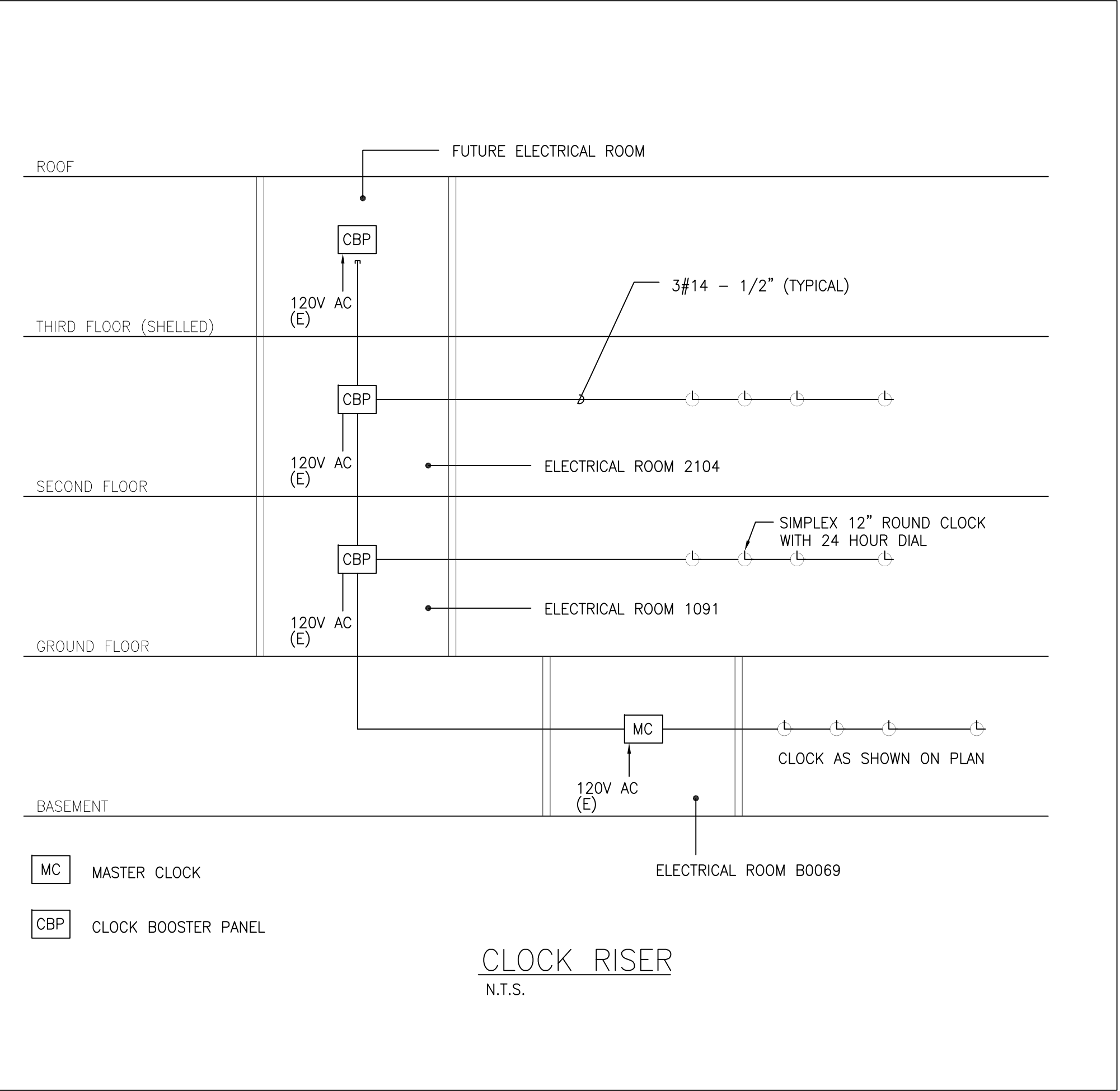
PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: 2ND FLOOR PLAN
FIRE ALARM & CLOCKS LAYOUT

SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-7
REV'D No.: -



LEGEND OF SYMBOLS	
	AREA SMOKE DETECTOR, R=REMOTE CONTACT
	MANUAL ALARM STATION
	RECESSED CEILING SPEAKER, 4" ROUND
	HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED
	HORN WITH STROBE
	120 VOLT SYSTEM CLOCK
	ISOLATOR
	HEAT DETECTOR
	SVC SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS
	PRE-ACTION CABINET
	ALARM/CHECK VALVE
	SHUT-OFF VALVE
	DUCT SMOKE DETECTOR



NOTE: 1. FOR LOCATION OF SPRINKLERS SYSTEM CONNECTIONS, REFER TO SPRINKLERS DRAWINGS.
2. SYSTEM TO BE:
• ZONED
• NON-CODED
• ADDRESSABLE
• C/W ONE-WAY VOICE COMMUNICATION SYSTEM



PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY 180 DERRY ROAD EAST MISSISSAUGA, ONTARIO
DWG: 3RD FLOOR PLAN FIRE ALARM & CLOCKS LAYOUT
SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-8
REV'D No.: -

Type	Symbol	Feature Type	Description
B1		Battery Unit	24V 2500W c/w 2-TOW quartz halogen heads
B2		Battery Unit	24V 3200W c/w 1-TOW quartz halogen head
B3		Battery Unit	24V 2500W c/w 1-TOW quartz halogen head
B4		Battery Unit	12V 2000W c/w 2-TOW quartz halogen heads
B4-W		Wrenguard	Wrenguard for B3 Battery Unit
B4-W-W		Wrenguard	Wrenguard for B4 Battery Unit
R1		Single Remote	24V 700W quartz halogen
R2		Single Remote	24V 200W halogen
R3		Single Remote	12V 200W quartz halogen EXPLOSION PROOF
R4		Single Remote	12V 700W quartz halogen
W-W		Wrenguard	Wrenguard for R3 Battery Unit
X	Exp. Sign.	Steel Housing, LED	Steel Housing, LED, 120/24V dual input, no DC output

NOTE:
DO NOT INSTALL FIXTURES IN THIS ROOM UNTIL PROVIDED WITH AN APPROVED FURNISHING LAYOUT. ADJUST FIXTURE LOCATION TO SUIT APPROVED LAYOUT.



PROJECT: PEEL REGIONAL POLICE
SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: BASEMENT PLAN
LIGHTING LAYOUT

SCALE: 1:150

REV'N DATE: JAN 2004

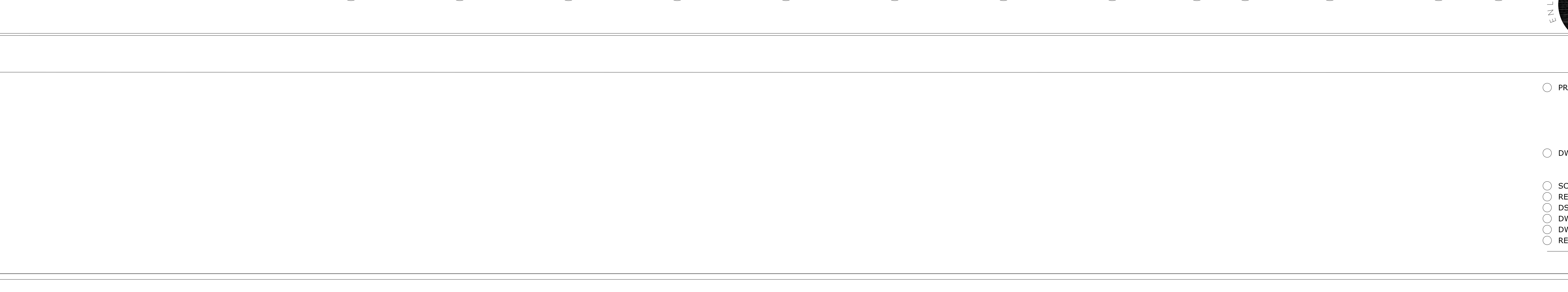
DSGN CHK: M.H.

DWN BY: R.G.

DWG No.: E-9

REV'N No.: -

Type	Symbol	Fixture Type	Description
B		Battery Unit	24V 550W c/w 1-70W quartz halogen heads
B1		Battery Unit	24V 330W c/w 1-70W quartz halogen head
B2		Battery Unit	24V 550W c/w 1-70W quartz halogen heads
B3		Battery Unit	12V 200W c/w 1-70W quartz halogen heads
B4		Battery Unit	12V 500W c/w 1-25W quartz halogen heads
B3-WG		Wireguard	Wireguard for B3 Battery Unit
B4-WG		Wireguard	Wireguard for B4 Battery Unit
R1		Single Remote	24V 70W quartz halogen
R2		Single Remote	24V 20W quartz halogen
R3		Single Remote	12V 70W quartz halogen EXPLOSION PROOF
R4		Single Remote	12V 20W quartz halogen
R3-WG		Wireguard	Wireguard for R3 remote
W		Exit Sign	Steel Housing, 120/254V dual input, no DC output



Type	Symbol	Failure Type	Description
B1		Battery Unit	24V 550W c/w 1-20W quartz halogen heads
B2		Battery Unit	24V 320W c/w 1-10W quartz halogen head
B3		Battery Unit	24V 550W c/w 1-10W quartz halogen head
B4		Battery Unit	24V 320W c/w 1-20W quartz halogen head
B4-WG		Battery Unit	12V 360W c/w 2-20W quartz halogen heads
B3-WG		Wireguard	Wireguard for B3 Battery Unit
B4-WG		Wireguard	Wireguard for B4 Battery Unit
R1		Single Remote	24V 70W quartz halogen
R2		Single Remote	24V 20W quartz halogen
R3		Single Remote	12V 70W quartz halogen EXPLOSION PROOF
R4		Single Remote	12V 20W quartz halogen
B3-WG		Wireguard	Wireguard for R3 Remote
X		Exit Sign	Steel Housing, LED, 120/240V dual input, no

This detailed architectural floor plan illustrates the electrical layout of a large facility. The plan is organized by grid lines (A-L horizontally, 1-9 vertically). Key areas include:

- Room Layouts:** Numerous rooms are shown, many labeled with codes like LPS2-10, LPS2-11, LPS2-12, etc., indicating different sections or levels.
- Electrical Equipment:** Various pieces of equipment are distributed across the plan, including UPS units (Uninterruptible Power Supply), ELPS units (Emergency Lighting Power Supply), and dynamometer relay panels.
- Wiring and Connections:** Lines represent electrical conduits or cables connecting different parts of the system. Some lines are labeled with numbers or letters.
- Callouts and Notes:**
 - "INDICATED FIGURES PROVIDED WITH 100 WATT AUXILIARY QUANTITY FOR EMERGENCY LIGHTING GROUP (ELPS-1 & 2)"
 - "LOW VOLTAGE SWITCHING CONTROLS CHECKBOARD PATTERN"
 - "SP-1 DIRECTLY FUTURE 100KVAH IN 100MM H.P.T. RATING FLUSH WITH UNDERSIDE OF JOINTS"
- Legend:** Located at the bottom right, it defines symbols used in the drawing:
 - A circle with a dot: "CIRCUIT BREAKER"
 - A square with a cross: "FUSE"
 - A rectangle with a diagonal line: "RELAY"
 - A triangle: "TRANSFORMER"
 - A diamond: "MOTOR"
 - A hexagon: "CAPACITOR"
 - A circle with a horizontal line: "RESISTOR"
 - A circle with a vertical line: "THERMAL OVERCURRENT PROTECTOR"
 - A circle with a diagonal line: "CONTACTOR"
 - A circle with a cross: "SWITCH"
 - A circle with a dot: "GROUNDING BUS"
 - A circle with a cross: "POTENTIAL TRANSFORMER"
 - A circle with a dot: "TEMPERATURE SENSITIVE DEVICE"
 - A circle with a cross: "PRESSURE SENSITIVE DEVICE"
 - A circle with a dot: "VIBRATION SENSITIVE DEVICE"
 - A circle with a cross: "ACCELERATION SENSITIVE DEVICE"
 - A circle with a dot: "SHOCK SENSITIVE DEVICE"
 - A circle with a cross: "SEISMIC SENSITIVE DEVICE"
 - A circle with a dot: "FLAME SENSITIVE DEVICE"
 - A circle with a cross: "SMOKE SENSITIVE DEVICE"
 - A circle with a dot: "GAS SENSITIVE DEVICE"
 - A circle with a cross: "HEAT SENSITIVE DEVICE"
 - A circle with a dot: "CO2 SENSITIVE DEVICE"
 - A circle with a cross: "INFRARED SENSITIVE DEVICE"
 - A circle with a dot: "ULTRASONIC SENSITIVE DEVICE"
 - A circle with a cross: "LASER SENSITIVE DEVICE"
 - A circle with a dot: "MICROWAVE SENSITIVE DEVICE"
 - A circle with a cross: "RADIO SENSITIVE DEVICE"
 - A circle with a dot: "TELEVISION SENSITIVE DEVICE"
 - A circle with a cross: "COMPUTER SENSITIVE DEVICE"
 - A circle with a dot: "PHONE SENSITIVE DEVICE"
 - A circle with a cross: "ALARM SENSITIVE DEVICE"
 - A circle with a dot: "LOCK SENSITIVE DEVICE"
 - A circle with a cross: "UNLOCK SENSITIVE DEVICE"
 - A circle with a dot: "DOOR SENSITIVE DEVICE"
 - A circle with a cross: "WINDOW SENSITIVE DEVICE"
 - A circle with a dot: "ROOF SENSITIVE DEVICE"
 - A circle with a cross: "FOUNDATION SENSITIVE DEVICE"
 - A circle with a dot: "STRUCTURE SENSITIVE DEVICE"
 - A circle with a cross: "ENVIRONMENT SENSITIVE DEVICE"
 - A circle with a dot: "CLIMATE SENSITIVE DEVICE"
 - A circle with a cross: "AIR QUALITY SENSITIVE DEVICE"
 - A circle with a dot: "NOISE SENSITIVE DEVICE"
 - A circle with a cross: "LIGHT SENSITIVE DEVICE"
 - A circle with a dot: "SOUND SENSITIVE DEVICE"
 - A circle with a cross: "TASTE SENSITIVE DEVICE"
 - A circle with a dot: "SMELL SENSITIVE DEVICE"
 - A circle with a cross: "TOUCH SENSITIVE DEVICE"
 - A circle with a dot: "FORCE SENSITIVE DEVICE"
 - A circle with a cross: "PRESSURE SENSITIVE DEVICE"
 - A circle with a dot: "WEIGHT SENSITIVE DEVICE"
 - A circle with a cross: "HEIGHT SENSITIVE DEVICE"
 - A circle with a dot: "LENGTH SENSITIVE DEVICE"
 - A circle with a cross: "WIDTH SENSITIVE DEVICE"
 - A circle with a dot: "DEPTH SENSITIVE DEVICE"
 - A circle with a cross: "AREA SENSITIVE DEVICE"
 - A circle with a dot: "VOLUME SENSITIVE DEVICE"
 - A circle with a cross: "MASS SENSITIVE DEVICE"
 - A circle with a dot: "ENERGY SENSITIVE DEVICE"
 - A circle with a cross: "POWER SENSITIVE DEVICE"
 - A circle with a dot: "CURRENT SENSITIVE DEVICE"
 - A circle with a cross: "VOLTAGE SENSITIVE DEVICE"
 - A circle with a dot: "FREQUENCY SENSITIVE DEVICE"
 - A circle with a cross: "PERIOD SENSITIVE DEVICE"
 - A circle with a dot: "PHASE SENSITIVE DEVICE"
 - A circle with a cross: "AMPLITUDE SENSITIVE DEVICE"
 - A circle with a dot: "MODULATION SENSITIVE DEVICE"
 - A circle with a cross: "ENCODING SENSITIVE DEVICE"
 - A circle with a dot: "DECODING SENSITIVE DEVICE"
 - A circle with a cross: "TRANSMISSION SENSITIVE DEVICE"
 - A circle with a dot: "RECEPTION SENSITIVE DEVICE"
 - A circle with a cross: "STORAGE SENSITIVE DEVICE"
 - A circle with a dot: "RECALL SENSITIVE DEVICE"
 - A circle with a cross: "FORGET SENSITIVE DEVICE"
 - A circle with a dot: "EXECUTE SENSITIVE DEVICE"
 - A circle with a cross: "STOP SENSITIVE DEVICE"
 - A circle with a dot: "PAUSE SENSITIVE DEVICE"
 - A circle with a cross: "CONTINUE SENSITIVE DEVICE"
 - A circle with a dot: "RESET SENSITIVE DEVICE"
 - A circle with a cross: "INITIALIZE SENSITIVE DEVICE"
 - A circle with a dot: "TERMINATE SENSITIVE DEVICE"
 - A circle with a cross: "ABORT SENSITIVE DEVICE"
 - A circle with a dot: "CANCEL SENSITIVE DEVICE"
 - A circle with a cross: "DISMISS SENSITIVE DEVICE"
 - A circle with a dot: "IGNORE SENSITIVE DEVICE"
 - A circle with a cross: "REFUSE SENSITIVE DEVICE"
 - A circle with a dot: "AGREE SENSITIVE DEVICE"
 - A circle with a cross: "CONFIRM SENSITIVE DEVICE"
 - A circle with a dot: "DENY SENSITIVE DEVICE"
 - A circle with a cross: "ACCEPT SENSITIVE DEVICE"
 - A circle with a dot: "DECLINE SENSITIVE DEVICE"
 - A circle with a cross: "WITHDRAW SENSITIVE DEVICE"
 - A circle with a dot: "RETRACT SENSITIVE DEVICE"
 - A circle with a cross: "EXTEND SENSITIVE DEVICE"
 - A circle with a dot: "CONTRACT SENSITIVE DEVICE"
 - A circle with a cross: "EXPAND SENSITIVE DEVICE"
 - A circle with a dot: "REDUCE SENSITIVE DEVICE"
 - A circle with a cross: "INCREASE SENSITIVE DEVICE"
 - A circle with a dot: "LESSEN SENSITIVE DEVICE"
 - A circle with a cross: "AMPLIFY SENSITIVE DEVICE"
 - A circle with a dot: "SOFTEN SENSITIVE DEVICE"
 - A circle with a cross: "HARDEN SENSITIVE DEVICE"
 - A circle with a dot: "EASE SENSITIVE DEVICE"
 - A circle with a cross: "TIGHTEN SENSITIVE DEVICE"
 - A circle with a dot: "LOOSEN SENSITIVE DEVICE"
 - A circle with a cross: "CLOSE SENSITIVE DEVICE"
 - A circle with a dot: "OPEN SENSITIVE DEVICE"
 - A circle with a cross: "LOCK SENSITIVE DEVICE"
 - A circle with a dot: "UNLOCK SENSITIVE DEVICE"
 - A circle with a cross: "FASTEN SENSITIVE DEVICE"
 - A circle with a dot: "UNFASTEN SENSITIVE DEVICE"
 - A circle with a cross: "SECURE SENSITIVE DEVICE"
 - A circle with a dot: "UNSECURE SENSITIVE DEVICE"
 - A circle with a cross: "PROTECT SENSITIVE DEVICE"
 - A circle with a dot: "UNPROTECT SENSITIVE DEVICE"
 - A circle with a cross: "DEFEND SENSITIVE DEVICE"
 - A circle with a dot: "OFFEND SENSITIVE DEVICE"
 - A circle with a cross: "RESIST SENSITIVE DEVICE"
 - A circle with a dot: "YIELD SENSITIVE DEVICE"
 - A circle with a cross: "OPPOSE SENSITIVE DEVICE"
 - A circle with a dot: "SUPPORT SENSITIVE DEVICE"
 - A circle with a cross: "OPPOSE SENSITIVE DEVICE"
 - A circle with a dot: "SUBMIT SENSITIVE DEVICE"
 - A circle with a cross: "WITHSTAND SENSITIVE DEVICE"
 - A circle with a dot: "BETRAY SENSITIVE DEVICE"
 - A circle with a cross: "REVEAL SENSITIVE DEVICE"
 - A circle with a dot: "CONCEAL SENSITIVE DEVICE"
 - A circle with a cross: "HIDE SENSITIVE DEVICE"
 - A circle with a dot: "SHOW SENSITIVE DEVICE"
 - A circle with a cross: "MANIFEST SENSITIVE DEVICE"
 - A circle with a dot: "Demonstrate SENSITIVE DEVICE"
 - A circle with a cross: "Illustrate SENSITIVE DEVICE"
 - A circle with a dot: "Explain SENSITIVE DEVICE"
 - A circle with a cross: "Describe SENSITIVE DEVICE"
 - A circle with a dot: "Narrate SENSITIVE DEVICE"
 - A circle with a cross: "Relate SENSITIVE DEVICE"
 - A circle with a dot: "Tell SENSITIVE DEVICE"
 - A circle with a cross: "Speak SENSITIVE DEVICE"
 - A circle with a dot: "Communicate SENSITIVE DEVICE"
 - A circle with a cross: "Interact SENSITIVE DEVICE"
 - A circle with a dot: "Engage SENSITIVE DEVICE"
 - A circle with a cross: "Participate SENSITIVE DEVICE"
 - A circle with a dot: "Contribute SENSITIVE DEVICE"
 - A circle with a cross: "Assist SENSITIVE DEVICE"
 - A circle with a dot: "Help SENSITIVE DEVICE"
 - A circle with a cross: "Support SENSITIVE DEVICE"
 - A circle with a dot: "Defend SENSITIVE DEVICE"
 - A circle with a cross: "Protect SENSITIVE DEVICE"
 - A circle with a dot: "Preserve SENSITIVE DEVICE"
 - A circle with a cross: "Maintain SENSITIVE DEVICE"
 - A circle with a dot: "Sustain SENSITIVE DEVICE"
 - A circle with a cross: "Perpetrate SENSITIVE DEVICE"
 - A circle with a dot: "Commit SENSITIVE DEVICE"
 - A circle with a cross: "Perform SENSITIVE DEVICE"
 - A circle with a dot: "Execute SENSITIVE DEVICE"
 - A circle with a cross: "Implement SENSITIVE DEVICE"
 - A circle with a dot: "Enact SENSITIVE DEVICE"
 - A circle with a cross: "Effect SENSITIVE DEVICE"
 - A circle with a dot: "Bring About SENSITIVE DEVICE"
 - A circle with a cross: "Cause SENSITIVE DEVICE"
 - A circle with a dot: "Produce SENSITIVE DEVICE"
 - A circle with a cross: "Generate SENSITIVE DEVICE"
 - A circle with a dot: "Create SENSITIVE DEVICE"
 - A circle with a cross: "Form SENSITIVE DEVICE"
 - A circle with a dot: "Shape SENSITIVE DEVICE"
 - A circle with a cross: "Fashion SENSITIVE DEVICE"
 - A circle with a dot: "Make SENSITIVE DEVICE"
 - A circle with a cross: "Construct SENSITIVE DEVICE"
 - A circle with a dot: "Build SENSITIVE DEVICE"
 - A circle with a cross: "Erect SENSITIVE DEVICE"
 - A circle with a dot: "Raise SENSITIVE DEVICE"
 - A circle with a cross: "Uplift SENSITIVE DEVICE"
 - A circle with a dot: "Hoist SENSITIVE DEVICE"
 - A circle with a cross: "Lift SENSITIVE DEVICE"
 - A circle with a dot: "Move SENSITIVE DEVICE"
 - A circle with a cross: "Transport SENSITIVE DEVICE"
 - A circle with a dot: "Carry SENSITIVE DEVICE"
 - A circle with a cross: "Convey SENSITIVE DEVICE"
 - A circle with a dot: "Deliver SENSITIVE DEVICE"
 - A circle with a cross: "Supply SENSITIVE DEVICE"
 - A circle with a dot: "Provide SENSITIVE DEVICE"
 - A circle with a cross: "Offer SENSITIVE DEVICE"
 - A circle with a dot: "Present SENSITIVE DEVICE"
 - A circle with a cross: "Expose SENSITIVE DEVICE"
 - A circle with a dot: "Reveal SENSITIVE DEVICE"
 - A circle with a cross: "Manifest SENSITIVE DEVICE"
 - A circle with a dot: "Show SENSITIVE DEVICE"
 - A circle with a cross: "Display SENSITIVE DEVICE"
 - A circle with a dot: "Exhibit SENSITIVE DEVICE"
 - A circle with a cross: "Demonstrate SENSITIVE DEVICE"
 - A circle with a dot: "Illustrate SENSITIVE DEVICE"
 - A circle with a cross: "Explain SENSITIVE DEVICE"
 - A circle with a dot: "Describe SENSITIVE DEVICE"
 - A circle with a cross: "Narrate SENSITIVE DEVICE"
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 - A circle with a dot: "Participate SENSITIVE DEVICE"
 - A circle with a cross: "Contribute SENSITIVE DEVICE"
 - A circle with a dot: "Assist SENSITIVE DEVICE"
 - A circle with a cross: "Help SENSITIVE DEVICE"
 - A circle with a dot: "Support SENSITIVE DEVICE"
 - A circle with a cross: "Defend SENSITIVE DEVICE"

○ PROJECT: PEEL REGIONAL POLICE
SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

○ DWG: 2ND FLOOR PLAN
LIGHTING LAYOUT

○ SCALE: 1:150

○ REV'N DATE: JAN 2004

○ DSGN CHK: M.H.

○ DWN BY: R.G.

○ DWG No.: E-11

○ REV'N No.: -



☐ SCALE: 1:150
☐ REV'N DATE: JAN 2004
☐ DSGN CHK: M.H.
☐ DWN BY: R.G.
☐ DWG No.: E-12
☐ REV'N No.: -



☐ SCALE: 1:150
☐ REV'N DATE: JAN 2004
☐ DSGN CHK: M.H.
☐ DWN BY: R.G.
☐ DWG No.: E-13
☐ REV'N No.: -

NOTE:

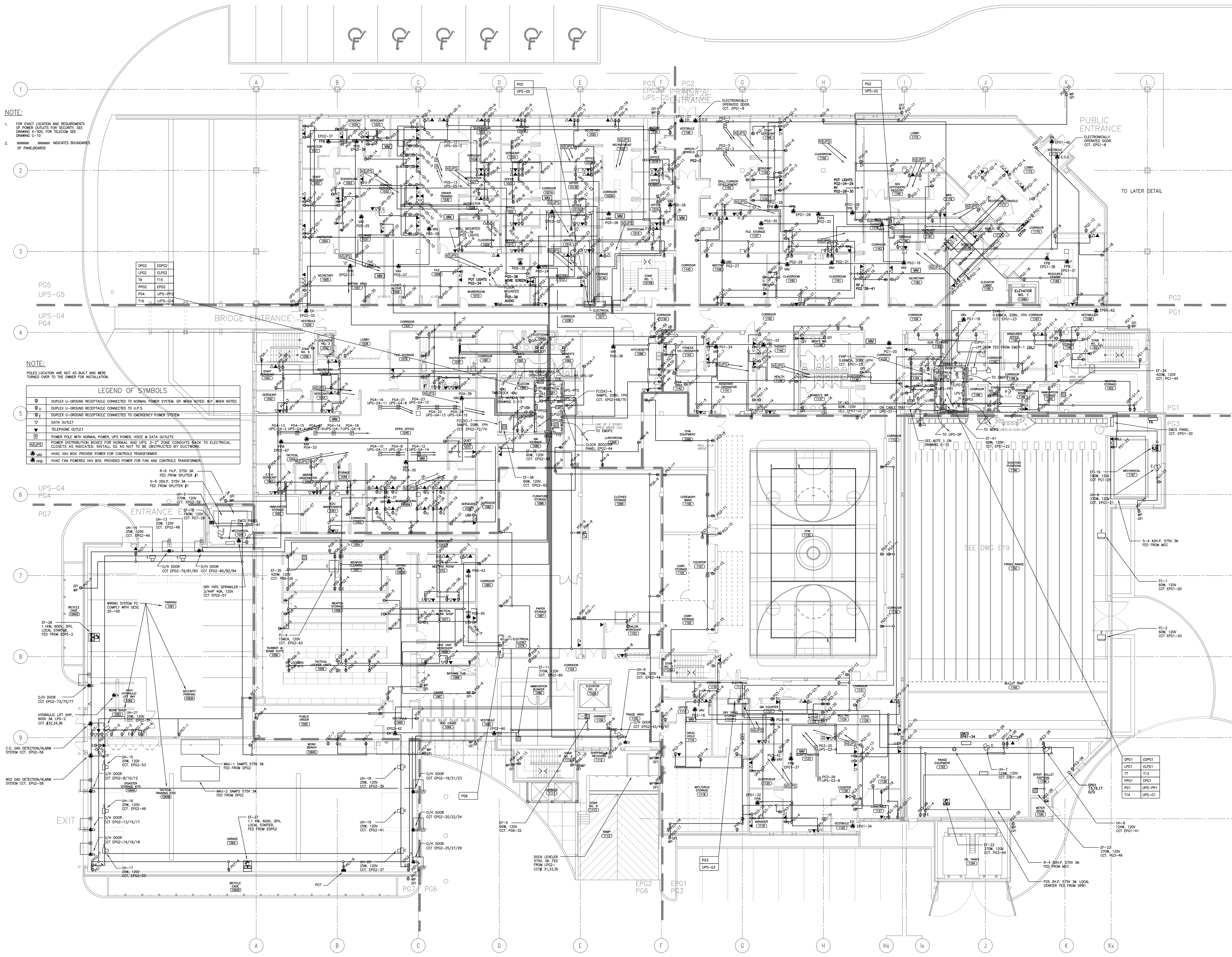
1. FOR EXACT LOCATION AND REQUIREMENTS OF POWER OUTLETS FOR SECURITY, SEE DRAWING C-10 FOR TELECOM SEE DRAWING C-10
2. DASHED LINE INDICATES BOUNDARY OF PANELS

NOTE:

- POLES LOCATION ARE NOT AS BUILT AND WERE TURNED OVER TO THE OWNER FOR INSTALLATION.

LEGEND OF SYMBOLS

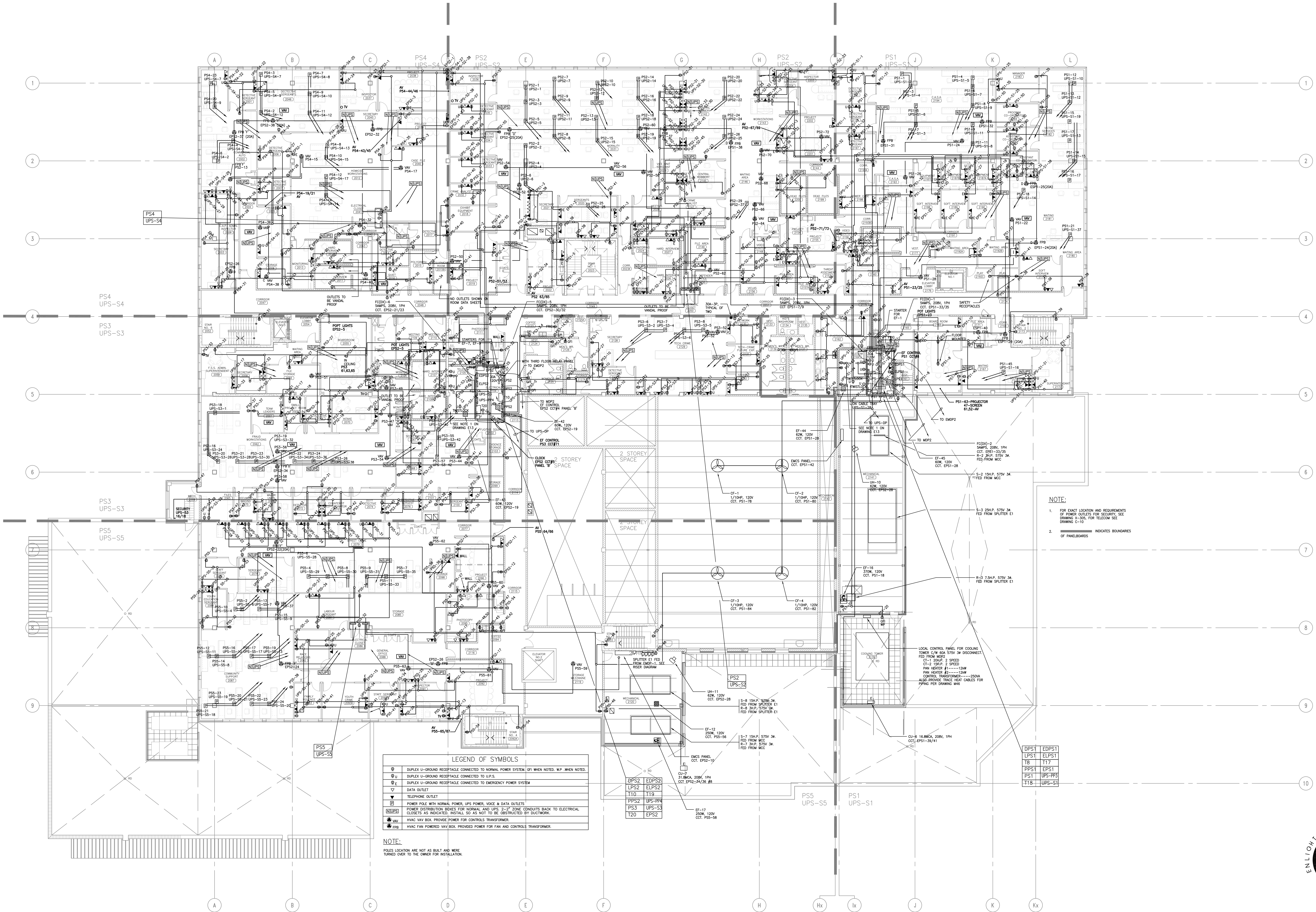
⊕	DUPLEX U-GROUND RECEPTACLE CONNECTED TO NORMAL POWER SYSTEM. (N) WHEN NOTED, N.P. WHEN NOTED.
⊕	DUPLEX U-GROUND RECEPTACLE CONNECTED TO U.P.S.
⊕	DUPLEX U-GROUND RECEPTACLE CONNECTED TO EMERGENCY POWER SYSTEM
⊕	DATA OUTLET
⊕	TELEPHONE OUTLET
⊕	POWER POLE WITH NORMAL POWER, UPS POWER, VOICE & DATA OUTLETS
⊕	POWER DISTRIBUTION BOXES FOR NORMAL AND UPS. 2-7 ZONE CONDUITS BACK TO ELECTRICAL CLOSET AS INDICATED. INSTALL SO AS NOT TO BE OBSTRUCTED BY SCHEDULING.
⊕	HVAC VAV BOX. PROVIDE POWER FOR FAN AND CONTROLS TRANSFORMER.
⊕	HVAC FAN POWERED VAV BOX. PROVIDE POWER FOR FAN AND CONTROLS TRANSFORMER.



PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: GROUND FLOOR PLAN
POWER LAYOUT

SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-14
REV'D No.: -



PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: 2ND FLOOR PLAN
LIGHTING LAYOUT

SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-15
REV'D No.: -

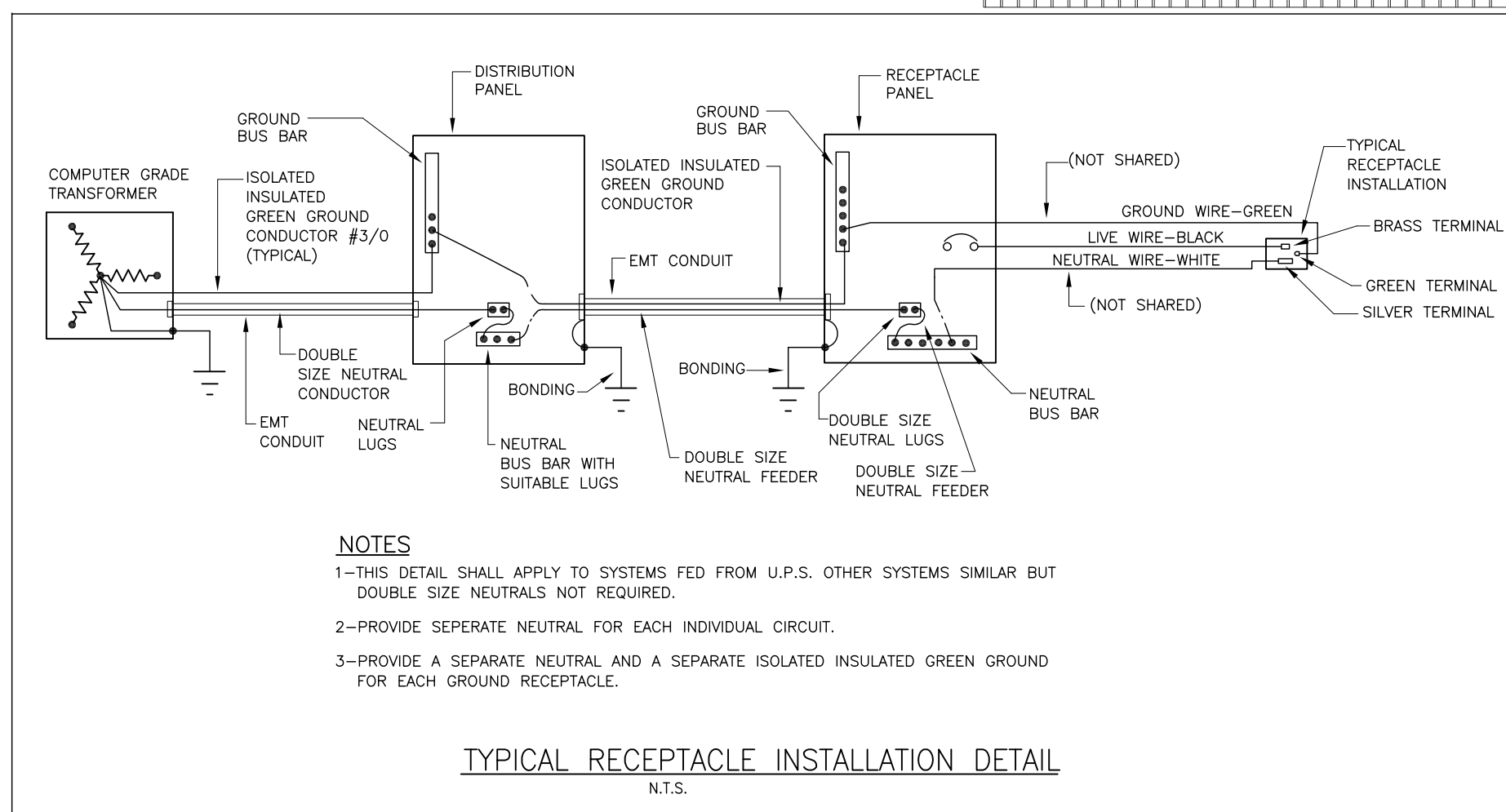
NOTES:

1. ——— INDICATES BOUNDARIES OF PANELBOARDS

LEGEND OF SYMBOLS	
	DUPLEX U-GROUND RECEPTACLE CONNECTED TO NORMAL POWER SYSTEM. (P1 WHEN NOTED, W/P WHEN NOTED)
	DUPLEX U-GROUND RECEPTACLE CONNECTED TO U.P.S.
	DUPLEX U-GROUND RECEPTACLE CONNECTED TO EMERGENCY POWER SYSTEM
	DATA OUTLET
	TELEPHONE OUTLET
	POWER POLE WITH NORMAL POWER, UPS POWER, VOICE & DATA OUTLETS
	POWER DISTRIBUTION ISSUES FOR NORMAL AND UPS 2-2' ZONE CONDUITS BACK TO ELECTRICAL CLOSETS AS INDICATED. INSTALL SO AS NOT TO BE OBSTRUCTED BY DUCTWORK.
	HVAC VAV BOX PROVIDED POWER FOR CONTROLS TRANSFORMER.
	HVAC FAN POWERED VAV BOX PROVIDED POWER FOR FAN AND CONTROLS TRANSFORMER.

NOTE:

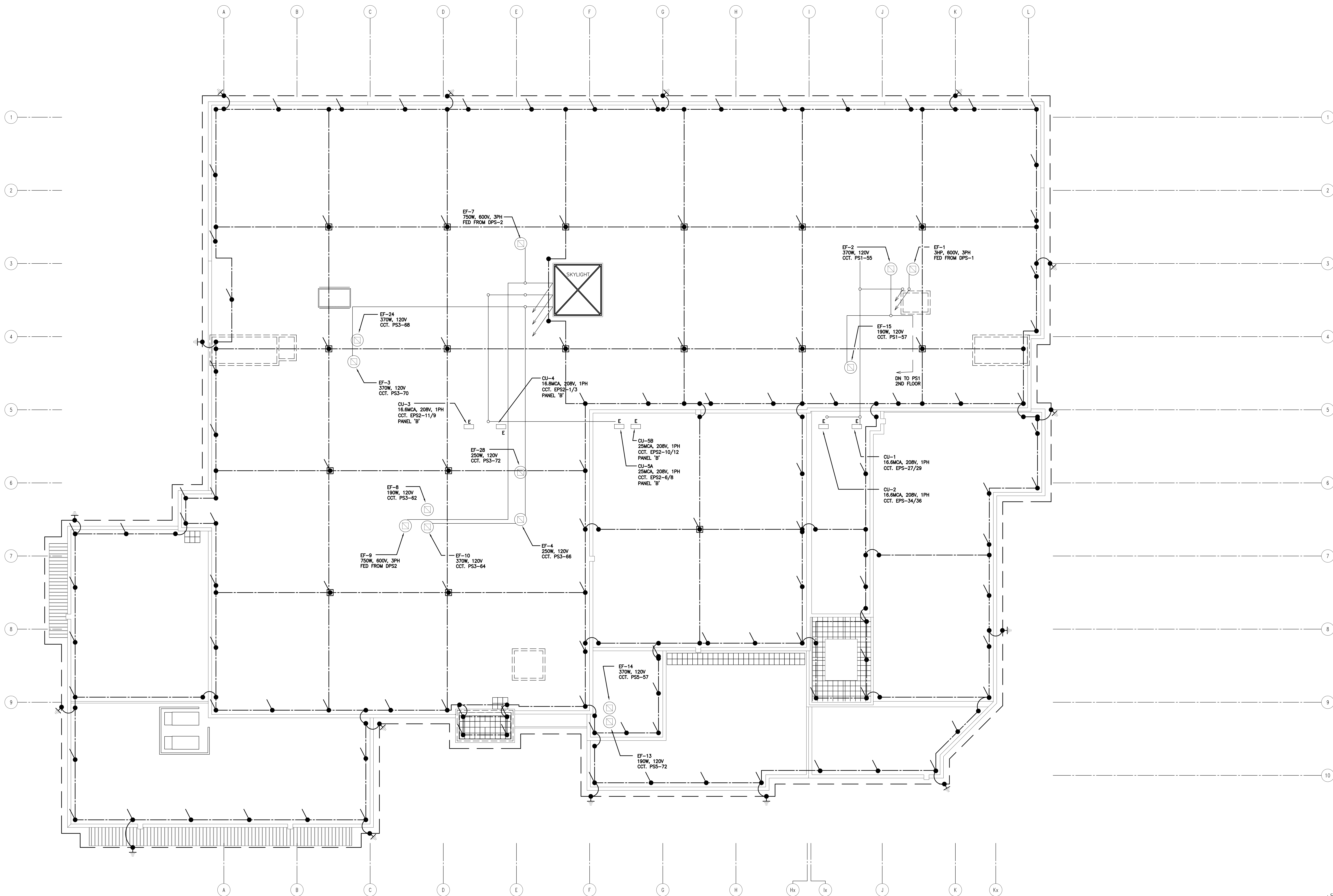
POLES LOCATION ARE NOT AS BUILT AND WERE TURNED OVER TO THE OWNER FOR INSTALLATION.

TYPICAL RECEPTACLE INSTALLATION DETAIL
N.T.S.

PROJECT: PEEL REGIONAL POLICE
SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO

DWG: 3RD FLOOR PLAN
POWER LAYOUT

SCALE: 1:150
REV'D DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-16
REV'D No.: -



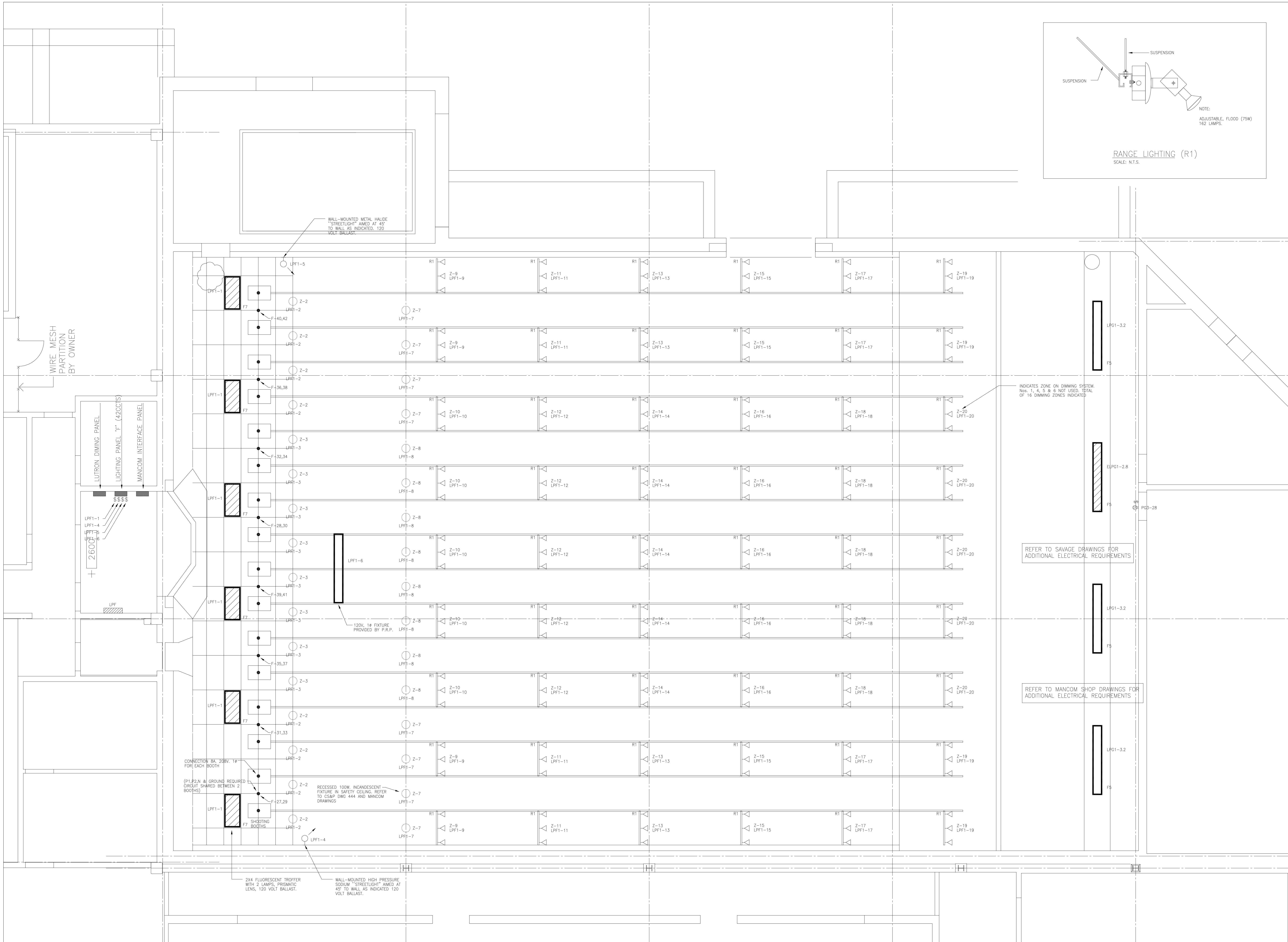
NOTES:

- PERIMETER GROUND LOOP CONDUCTOR 2/0 BARE COPPER CABLE INSTALLED 18" BELOW GRADE LEVEL
- 3/4" X 10' COPPER CLAD GROUND RODS, CADWELDED TO GROUND LOOP TOTAL OF SIXTEEN (16)
- DOWN CONDUCTOR CABLE'S, TOTAL OF SIXTEEN, INSTALLED IN SIDE A 1" P.V.C. CONDUIT PIPE, NO: 31 BRAIDED COPPER CABLE.
- JUMPER CABLE'S NO:31 BRAIDED COPPER FROM ONE ROOF LEVEL TO ANOTHER CONCEALED BEHIND THE EXTERIOR WALL
- NO: 31 BRAIDED COPPER CABLE FOR ALL PERIMETER ROOF LOOPS AND INTERMEDIATE CROSS RUN CONDUCTORS
- 1/2" X 16" SOLID COPPER AIR TERMINALS, FOR PERIMETER OF ROOF SECURED TO THE INSIDE OF PARAPET WALL AS PER DETAIL
- 1/2" X 24" SOLID COPPER AIR TERMINALS FOR INTERMEDIATE LOCATIONS MOUNTED ON TOP OF CONCRETE PAVERS 24" X 24"
- ALL CONNECTIONS BETWEEN CABLE & CABLE TO BE CADWELDED
- ALL METAL OBJECTS ON ROOF, WITHIN SIX FEET OF A CONDUCTOR TO BE GROUNDED
- ALL PERIMETER ROOF CONDUCTORS TO BE SECURED TO THE PARAPET FLASHINGS

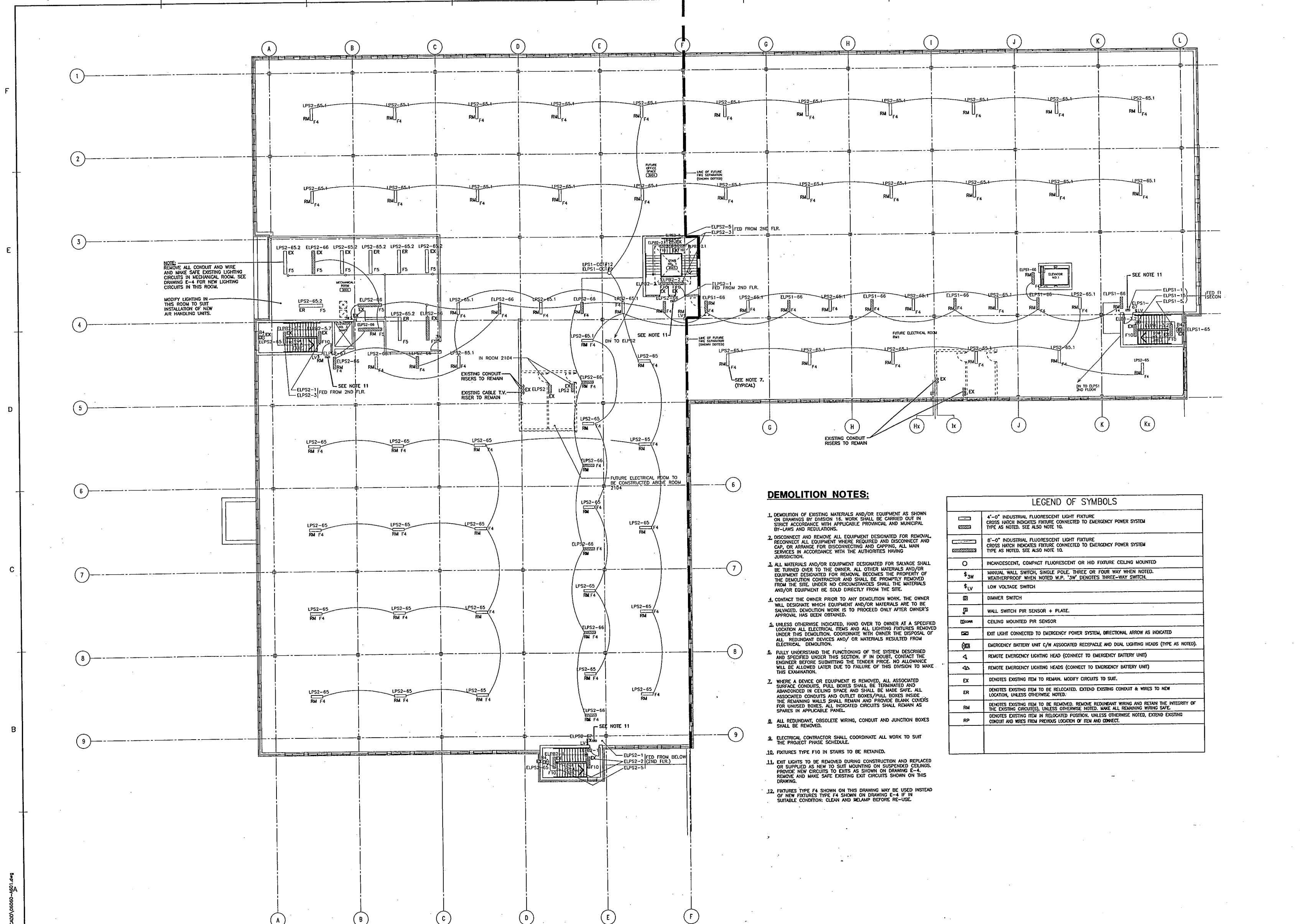
REFER TO BURCHSELL SHOP DRAWINGS FOR FURTHER INFORMATION AND DETAILS OF CONNECTIONS.



- PROJECT: PEEL REGIONAL POLICE SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
- DWG: ROOF PLAN
ELECTRICAL LAYOUT
- SCALE: 1:150
- REV'D DATE: JAN 2004
- DSGN CHK: M.H.
- DWN BY: R.G.
- DWG No.: E-17
- REV'D No.: -



- PROJECT: PEEL REGIONAL POLICE
SUPPORT SERVICES FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
- DWG: FIRING RANGE
ELECTRICAL LAYOUT
- SCALE: 1:50
REV'N DATE: JAN 2004
DSGN CHK: M.H.
DWN BY: R.G.
DWG No.: E-18
REV'N No.: -



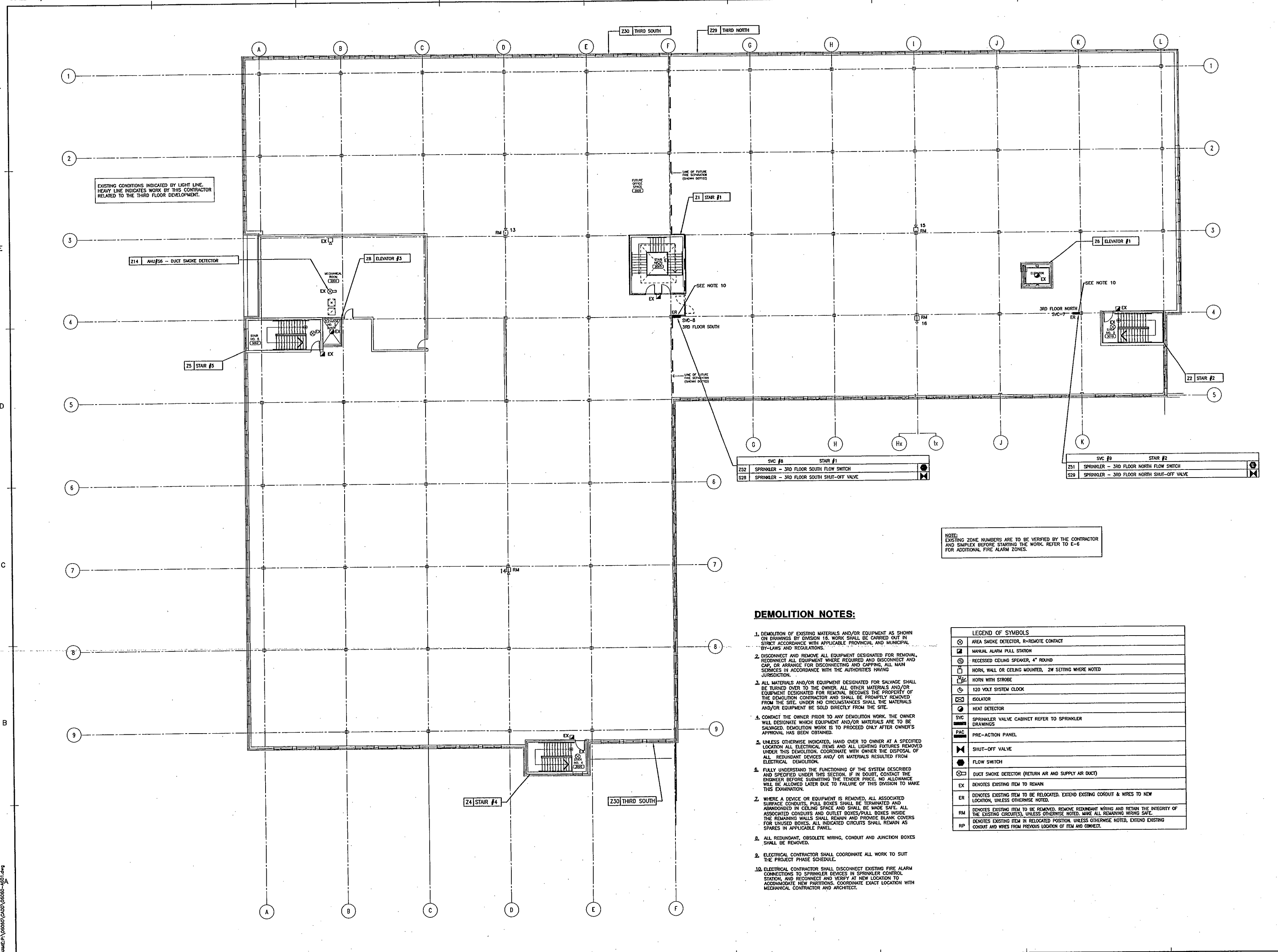
NO.	REVISION/ISSUE	DATE
1	ISSUED FOR PRICING	OCT. 12, 2010
2	ISSUED FOR PERMIT	OCT. 22, 2010
3	ISSUED FOR 90% SUBMISSION	JAN. 7, 2011
4	ISSUED FOR FINAL REVIEW	MAR. 6, 2011
5	REVISED FOR BUILDING PERMIT	MAR. 24, 2011
6	ISSUED FOR TENDER	APR. 21, 2011

1. DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY DIVISION 16, WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING APPLICABLE PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
2. DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE MAINS AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
3. ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL OTHER MATERIALS AND/OR EQUIPMENT SHALL BE REMOVED FROM THE PROJECT SITE. THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR SHALL BE PROMPTLY REMOVED FROM THE PROJECT SITE UNDER THE FOLLOWING CIRCUMSTANCES: ALL MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY FROM THE SITE.
4. CONTACT THE OWNER PRIOR TO ANY DEMOLITION WORK. THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED AND TO PROCEED ONLY AFTER OWNER'S APPROVAL HAS BEEN OBTAINED.
5. UNLESS OTHERWISE INDICATED, HAND OVER TO OWNER AT A SPECIFIED LOCATION ALL ELECTRICAL AND MECHANICAL EQUIPMENT AND/OR MATERIALS TO BE REMOVED. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTING FROM DEMOLITION AND REMOVAL.
6. FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT THE DESIGNER FOR CLARIFICATION. THE CONTRACTOR SHALL BE HELD LIABLE LATER DUE TO FAILURE OF THIS DIVISION TO MAKE THIS EXAMINATION.
7. WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURROUNDINGS, CIRCUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE MADE SAFE. ALL REMAINING WIRING AND CONDUITS SHALL BE MADE SAFE. THE REMAINING WALLS SHALL REMAIN AND PROVIDE BACK COVERS FOR ALL REMAINING DEVICES AND REMAINING CIRCUITS SHALL REMAIN AS SPACES IN APPLICABLE PANEL.
8. ALL REDUNDANT, OBSOLETE WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
10. FIXTURES TYPE F10 IN STAIRS TO BE RETAINED.
11. EXIT LIGHTS TO BE REMOVED DURING CONSTRUCTION AND REPLACED OR TO BE USED AS IS IN THE PROPOSED CIRCUMSTANCES. PROVIDE NEW CIRCUITS TO EXITS AS SHOWN ON DRAWING E-4. REMOVE AND MAKE SAFE EXISTING EXIT CIRCUITS SHOWN ON THIS DRAWING.
12. FIXTURES TYPE F4 SHOWN ON THIS DRAWING MAY BE USED INSTEAD OF NEW FIXTURES TYPE F4 SHOWN ON DRAWING E-4 IF IN CONFORMANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL

	4'-0" INDUSTRIAL FLUORESCENT LIGHT FIXTURE CROSS HATCH INDICATES FIXTURE CONNECTED TO EMERGENCY POWER SYSTEM TYPE AS NOTED. SEE ALSO NOTE 10.
	8'-0" INDUSTRIAL FLUORESCENT LIGHT FIXTURE CROSS HATCH INDICATES FIXTURE CONNECTED TO EMERGENCY POWER SYSTEM TYPE AS NOTED. SEE ALSO NOTE 10.
	INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE CEILING MOUNTED
	MANUAL WALL SWITCH, SINGLE POLE, THREE OR FOUR WAY WHEN NOTED. WEATHERPROOF WHEN NOTED W.P. "3W" DENOTES THREE-WAY SWITCH.
	LOW VOLTAGE SWITCH
	DIMMER SWITCH
	WALL SWITCH PIR SENSOR + PLATE.
	CEILING MOUNTED PIR SENSOR
	EXIT LIGHT CONNECTED TO EMERGENCY POWER SYSTEM, DIRECTIONAL ARROW AS INDICATED
	EMERGENCY BATTERY UNIT C/W ASSOCIATED RECEPTACLE AND DUAL LIGHTING HEADS (TYPE AS NOTED).
	REMOTE EMERGENCY LIGHTING HEAD (CONNECT TO EMERGENCY BATTERY UNIT)
	REMOTE EMERGENCY LIGHTING HEADS (CONNECT TO EMERGENCY BATTERY UNIT)
	DENOTES EXISTING ITEM TO REMAIN, MODIFY CIRCUITS TO SUIT.
	DENOTES EXISTING ITEM TO BE RELOCATED, EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
	DENOTES EXISTING ITEM TO BE REMOVED, REMOVE REDUNDANT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CONDUIT, UNLESS OTHERWISE NOTED, MAKE ALL REMAINING WIRING SAFE.
	DENOTES EXISTING ITEM IN RELOCATED POSITION, UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM PREVIOUS LOCATION OF ITEM AND CONNECT.

CS&P Architects 2345 Yonge Street, Suite 2
Toronto, ON M4P 2E5 Canada
www.csandp.com

SCALE: 1:150	
PROJECT NO.	DWG. NO.
06060	E-1



EXISTING CONDITIONS INDICATED BY LIGHT LINE.
HEAVY LINE INDICATES WORK BY THIS CONTRACTOR
RELATED TO THE THIRD FLOOR DEVELOPMENT.

VALUE OFFICE SPACE (380)

Z1 STAIR #1

SEE NOTE 10

SVC-8

LINE OF FUTURE FIRE SEPARATION (SEE NOTE 10)

Z6 ELEVATOR #1

SEE NOTE 10

3RD FLOOR NORTH

SVC-7

Z2 STAIR #2

SVC #8 STAIR #1
Z52 SPRINKLER - 3RD FLOOR SOUTH FLOW SWITCH
Z53 SPRINKLER - 3RD FLOOR SOUTH SHUT-OFF VALVE

SVC #9 STAIR #2
Z51 SPRINKLER - 3RD FLOOR NORTH FLOW SWITCH
Z50 SPRINKLER - 3RD FLOOR NORTH SHUT-OFF VALVE

NOTE:
EXISTING ZONE NUMBERS ARE TO BE VERIFIED BY THE CONTRACTOR
AND SIMPLER BEFORE STARTING THE WORK. REFER TO E-6
FOR ADDITIONAL FIRE ALARM ZONES.

DEMOLITION NOTES:

- DEMOLITION OF EXISTING MATERIALS AND/OR EQUIPMENT AS SHOWN ON DRAWINGS BY DIVISION 16. WORK SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH APPLICABLE PROVINCIAL AND MUNICIPAL BY-LAWS AND REGULATIONS.
- DISCONNECT AND REMOVE ALL EQUIPMENT DESIGNATED FOR REMOVAL. RECONNECT ALL EQUIPMENT WHERE REQUIRED AND DISCONNECT AND CAP, OR ARRANGE FOR DISCONNECTING AND CAPPING, ALL MAIN SERVICES IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS AND/OR EQUIPMENT DESIGNATED FOR SALVAGE SHALL BE TURNED OVER TO THE OWNER. ALL OTHER MATERIALS AND/OR EQUIPMENT DESIGNATED FOR REMOVAL, BECOMES THE PROPERTY OF THE DEMOLITION CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL THE MATERIALS AND/OR EQUIPMENT BE SOLD DIRECTLY FROM THE SITE.
- CONTACT THE OWNER PRIOR TO ANY DEMOLITION WORK. THE OWNER WILL DESIGNATE WHICH EQUIPMENT AND/OR MATERIALS ARE TO BE SALVAGED. DEMOLITION WORK IS TO PROCEED ONLY AFTER OWNER'S APPROVAL HAS BEEN OBTAINED.
- UNLESS OTHERWISE INDICATED, HAND OVER TO OWNER AT A SPECIFIED LOCATION ALL ELECTRICAL, TENSE AND ALL LIGHTING FIXTURES REMOVED UNDER THIS DEMOLITION. COORDINATE WITH OWNER THE DISPOSAL OF ALL REDUNDANT DEVICES AND/OR MATERIALS RESULTING FROM ELECTRICAL DEMOLITION.
- FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED UNDER THIS SECTION. IF IN DOUBT, CONTACT THE ENGINEER BEFORE SUBMITTING THE TENDER PRICE. NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE THIS EXAMINATION.
- WHERE A DEVICE OR EQUIPMENT IS REMOVED, ALL ASSOCIATED SURFACE CONDUITS, PULL BOXES SHALL BE TERMINATED AND ABANDONED IN CEILING SPACE AND SHALL BE MADE SAFE. ALL ASSOCIATED CONDUITS AND OUTLET BOXES/PULL BOXES INSIDE THE REMAINING WALLS SHALL REMAIN AND PROVIDE BLANK COVERS FOR UNUSED BOXES. ALL INDICATED CIRCUITS SHALL REMAIN AS SPARES IN APPLICABLE PANEL.
- ALL REDUNDANT, OBSOLETE WIRING, CONDUIT AND JUNCTION BOXES SHALL BE REMOVED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK TO SUIT THE PROJECT PHASE SCHEDULE.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONNECTIONS TO SPRINKLER DEVICES IN SPRINKLER CONTROL STATION, AND RECONNECT AND VERIFY AT NEW LOCATION TO ACCOMMODATE NEW PARTITIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND ARCHITECT.

LEGEND OF SYMBOLS	
	AREA SMOKE DETECTOR, R-REMOTE CONTACT
	MANUAL ALARM PULL STATION
	RECESSED CEILING SPEAKER, 4" ROUND
	HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED
	HORN WITH STROBE
	120 VOLT SYSTEM CLOCK
	ISOLATOR
	HEAT DETECTOR
	SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS
	PRE-ACTION PANEL
	SHUT-OFF VALVE
	FLOW SWITCH
	DUCT SMOKE DETECTOR (RETURN AIR AND SUPPLY AIR DUCT)
	EX DENOTES EXISTING ITEM TO REMAIN
	ER DENOTES EXISTING ITEM TO BE RELOCATED, EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
	RM DENOTES EXISTING ITEM TO BE REMOVED, REMOVE REDUNDANT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CIRCUIT(S), UNLESS OTHERWISE NOTED, MAKE ALL REMAINING WIRING SAFE.
	RP DENOTES EXISTING ITEM IN RELOCATED POSITION, UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM PREVIOUS LOCATION OF ITEM AND CONNECT.

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KEY TO DETAIL LOCATION
No. DETAIL NUMBER
No. DRAWING NUMBER

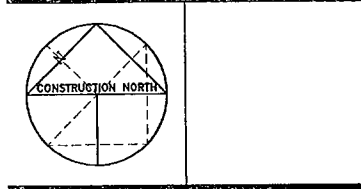
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR PRICING	OCT. 12, 2007
2	ISSUED FOR PERMIT	OCT. 22, 2007
3	ISSUED FOR 90% SUBMISSION	JAN. 7, 2008
4	ISSUED FOR FINAL REVIEW	MAR. 6, 2008
5	REVISED FOR BUILDING PERMIT	MAR. 24, 2008
6	ISSUED FOR TENDER	APR. 21, 2008

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www.csandp.com

CS&P Architects

DRAWN BY: J.S.
CHECKED BY: J.C.

DATE: APRIL 21, 2008
PROJECT TITLE:

**THIRD FLOOR EXPANSION
EMIL KOLB BUILDING**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:
**ELECTRICAL
THIRD FLOOR
EXISTING CONDITIONS
FIRE ALARM LAYOUT**

SCALE: 1:150
PROJECT NO. **06060** DWG. NO. **E-3**

FILENAME: P:\06060\06060-06060-06060.dwg

DRAWING LAST EDITED: 14SEP07 10:00:13



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KEY TO DETAIL LOCATION	
No.	DETAIL NUMBER
1	100

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MODIFY LIGHTING IN THIS ROOM TO SUIT INSTALLATION OF NEW AIR HANDLING UNITS. PROVIDE NEW CIRCUITS AS SHOWN.

Type	Symbol	Brand Name	Catalog Number	Description	Lamp	Lamp Wattage
F	OR	VR PARABOLIC	CFI Fluorescent	ULF: 0.80 - Lumens: 2900	32W T-8	32X2
VR	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimming ballast	32W T-8	32X2
FOR	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F20	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X3
F20R	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X3
F3	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F4	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F5	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F6	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F7	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F8	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F9	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F10	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F11	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F12	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F13	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F14	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F15	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F16	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F17	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F18	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F19	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F20	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F21	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F22	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F23	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F24	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F25	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F26	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F27	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
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F99	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2
F100	OR	VR PARABOLIC	VR PARABOLIC	Similar to F, but dimmable frame	32W T-8	32X2

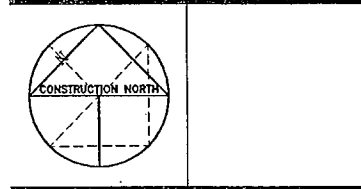
LEGEND OF SYMBOLS	
2'-0" x 4'-0" RECESSED OR SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE	
CROSS HATCH INDICATES FIXTURE CONNECTED TO EMERGENCY POWER SYSTEM	
TYPE AS NOTED	
INCADESCENT, COMPACT FLUORESCENT OR HID FIXTURE CEILING MOUNTED. TYPE AS NOTED.	
MANUAL WALL SWITCH, SINGLE POLE, THREE OR FOUR WAY WHEN NOTED.	
WEATHERPROOF WHEN NOTED. W.P.	
DIMMER SWITCH. "3" DENOTES THREEWAY DIMMER SWITCH WHEN NOTED.	
WALL SWITCH PIR SENSOR + PLATE.	
CEILING MOUNTED PIR SENSOR	
EXIT LIGHT CONNECTED TO EMERGENCY POWER SYSTEM. DIRECTIONAL ARROW AS INDICATED	
EMERGENCY BATTERY UNIT C/W ASSOCIATED RECEPTACLE AND DUAL LIGHTING HEADS. EBI DENOTES BATTERY UNIT DC CIRCUIT DESIGNATION.	
EMERGENCY LIGHTING HEAD (CONNECT TO EMERGENCY BATTERY UNIT). REMOTE HEAD CONNECTED TO BATTERY UNIT DC CIRCUIT EBI. PROVIDE DC WIRING.	
REMOTE EMERGENCY LIGHTING HEADS (CONNECT TO EMERGENCY BATTERY UNIT). REMOTE HEAD CONNECTED TO BATTERY UNIT DC CIRCUIT EBI. PROVIDE DC WIRING.	
EX DENOTES EXISTING ITEM TO REMAIN	
ER DENOTES EXISTING ITEM TO BE RELOCATED. EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.	
RM DENOTES EXISTING ITEM TO BE REMOVED. REMOVE RETAINMENT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CIRCUITS, UNLESS OTHERWISE NOTED. MAKE ALL REMAINING WIRING SAFE.	
RP DENOTES EXISTING ITEM IN RELOCATED POSITION, UNLESS OTHERWISE NOTED. EXTEND EXISTING CONDUIT AND WIRES FROM PREVIOUS LOCATION OF ITEM AND CONNECT.	
VP VANDAL PROOF.	

Lighting Control Schedule					
Symbol	Description	Catalog Number	Voltage	Settings	Time Delay Light Level
\$3	Manual wall switch, single pole, three way or four way when noted. Weatherproof when noted. W.P.	-	347		
\$4	Manual wall switch, low voltage	-	24		
\$5	Low voltage relay panel. Numbers indicate basic units	-	347/24		
\$6	Ultrasonic ceiling sensor + associated power pack	WT-605	WATT STOPPER		
\$7	Ultrasonic ceiling sensor + associated power pack	WT-1105	WATT STOPPER		
\$8	Ultrasonic ceiling sensor + associated power pack	WT-2205	WATT STOPPER		
\$9	Wall switch PIR sensor + plate	WT-347	WATT STOPPER		
\$10	Passive Infrared wall/ceiling sensor + associated power pack	WT-105	WATT STOPPER		
\$11	Digital time switch	TS-200		2 hrs.	
\$12	Dimmer for fluorescent lighting. N/E indicates normal/emergency power circuits	TS-200	347		
\$13	Ultrasonic ceiling sensor + associated power pack, corridor pattern	WT-2255	WATT STOPPER		

Type	Symbol	Fixture Type	Description	Catalog #
B	OR	Battery Unit	12V 100H c/w ZSR (PAR 18, two heads)	BEHELLI NV-12-100-ZSR-ZW0AT
B1	OR	Battery Unit	6V 50W c/w ZSR (PAR 18, two heads)	BEHELLI NV-6-50-ZSR-ZW0AT
B2	OR	Battery Unit	12V 160H c/w ZSR (PAR 18, two heads)	BEHELLI NV-12-160-ZSR
R	OR	Single Remote	12V 20W Composite Quartz Lamp	BEHELLI 1SR-20W-12V
R1	OR	Double Remote	12V 2 x 20W Composite Quartz Lamps	BEHELLI 2SR-20W-12V
R2	OR	Single Remote	12V 24W Box Fluorescent lamp, vandyproof	BEHELLI 1SR-24W-12V
X	OR	Exit Sign	Steel Housing, LED, 120/347 dual input, no DC required, Universal Mount, single face.	STELLA SL-E SERIES BEHELLI
X	OR	Exit Sign	Steel Housing, LED, 120/347 dual input, no DC required, Universal Mount, double face.	STELLA SL-E SERIES BEHELLI
X	OR	Exit Sign	Steel Housing, LED, 120/347 dual input, no DC required, Universal Mount, single face, arrow direction as noted.	STELLA SL-E SERIES BEHELLI
X	OR	Exit Sign	Steel Housing, LED, 120/347 dual input, no DC required, Universal Mount, double face, arrow direction as noted.	STELLA SL-E SERIES BEHELLI

- NOTES:
- 1) ALLOW FOR INSTALLATION OF FIVE(5) ADDITIONAL EXIT LIGHTS IF REQUIRED IN FUTURE FROM BUILDING INSPECTOR, ARCHITECT OR CONSULTANT. PROVIDE CREDIT IF EXITS ARE NOT INSTALLED.
 - 2) PROVIDE LOCK-ON BREAKERS FOR BATTERY UNIT AND EXIT LIGHT CIRCUITS, AS NOTED.
 - 3) ALL EXITS SHALL BE TYPE "X" UNLESS OTHERWISE NOTED.
 - 4) PROVIDE VANDAL PROOF LIGHT SWITCH IN KEY OPERATED METAL ENCLOSURE IN HARD INTERVIEW ROOMS 3120, 3121, 3122, 3123, 3124, SOFT INTERVIEW ROOM 3131 AND WASHROOM 3118.

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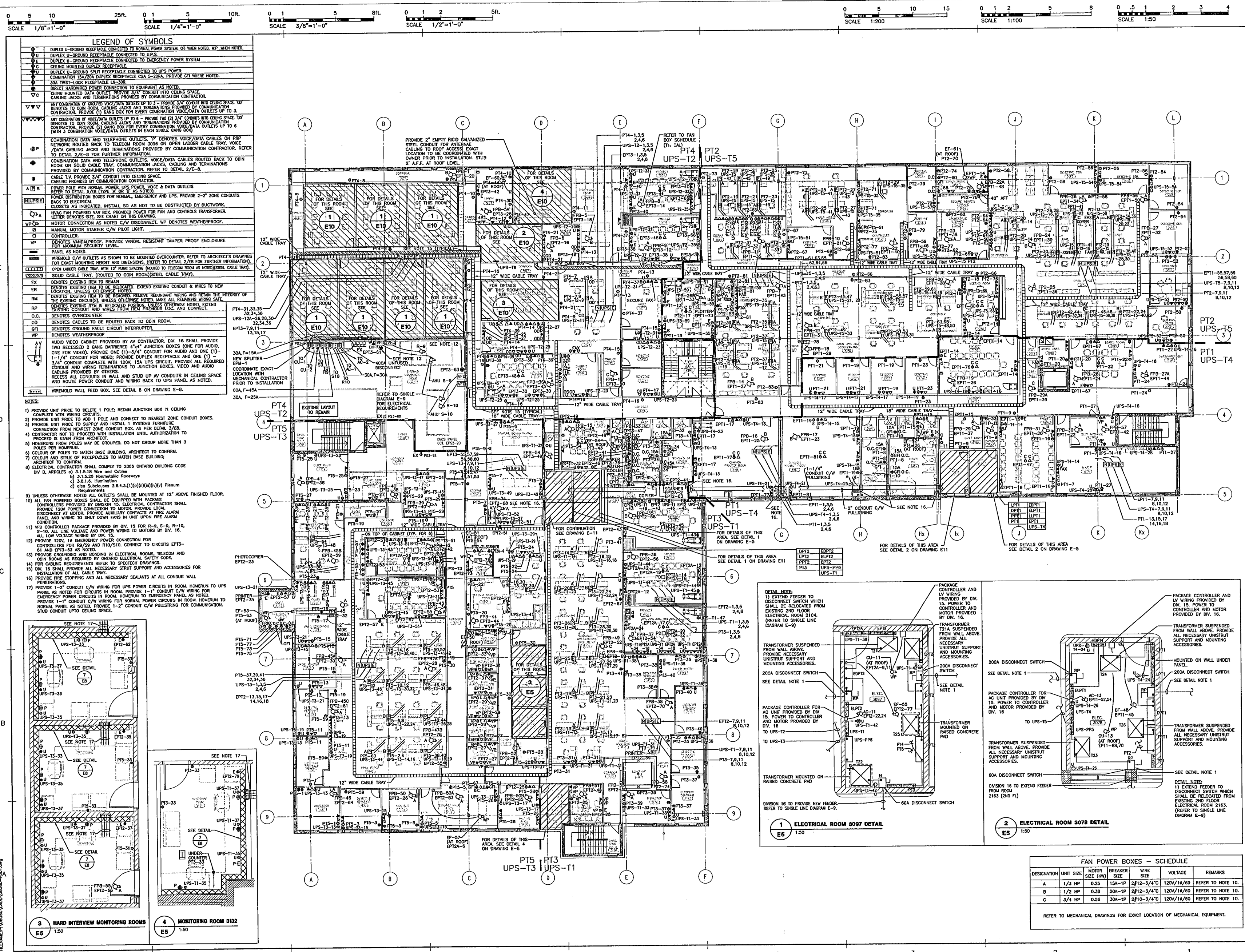
CS&P Architects Inc.
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csandp.com
2345 Yonge Street, Suite 200
Toronto, ON M4P 2G8 Canada
www.csandp.com

DRAWN BY: RR/JUS
CHECKED BY: JC
DATE: APRIL 21, 2008
PROJECT TITLE:

THIRD FLOOR EXPANSION
EMIL KOLB BUILDING
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:
ELECTRICAL
THIRD FLOOR
LIGHTING LAYOUT

SCALE: 1:150
PROJECT NO. 06060
DWG. NO. E-4



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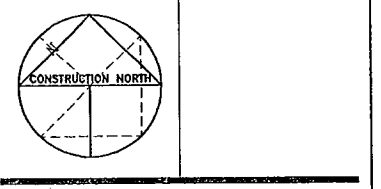
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4	ISSUED FOR FINAL REVIEW	MAR. 6, 2008
5	REVISED FOR BUILDING PERMIT	MAR. 24, 2008
6	ISSUED FOR TENDER	APR. 21, 2008

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DRAWN BY: JS
CHECKED BY: JC
DATE: APRIL 21, 2008
PROJECT TITLE:

**THIRD FLOOR EXPANSION
EMIL KOLB BUILDING**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:

**ELECTRICAL
THIRD FLOOR
POWER AND TELCOM
LAYOUTS**

SCALE: 1:150
PROJECT NO. DWG. NO.

06060 E-5

FAN POWER BOXES - SCHEDULE					
DESIGNATION	UNIT SIZE	MOTOR SIZE (KW)	BREAKER SIZE	WIRE SIZE	VOLTAGE
A	1/3 HP	0.25	15A-1P	2#12-3/4"	120V/1P/60
B	1/2 HP	0.38	20A-1P	2#12-3/4"	120V/1P/60
C	3/4 HP	0.56	30A-1P	2#10-3/4"	120V/1P/60

REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.



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KEY TO DETAIL LOCATION	DETAIL NUMBER
No.	DRAWING NUMBER

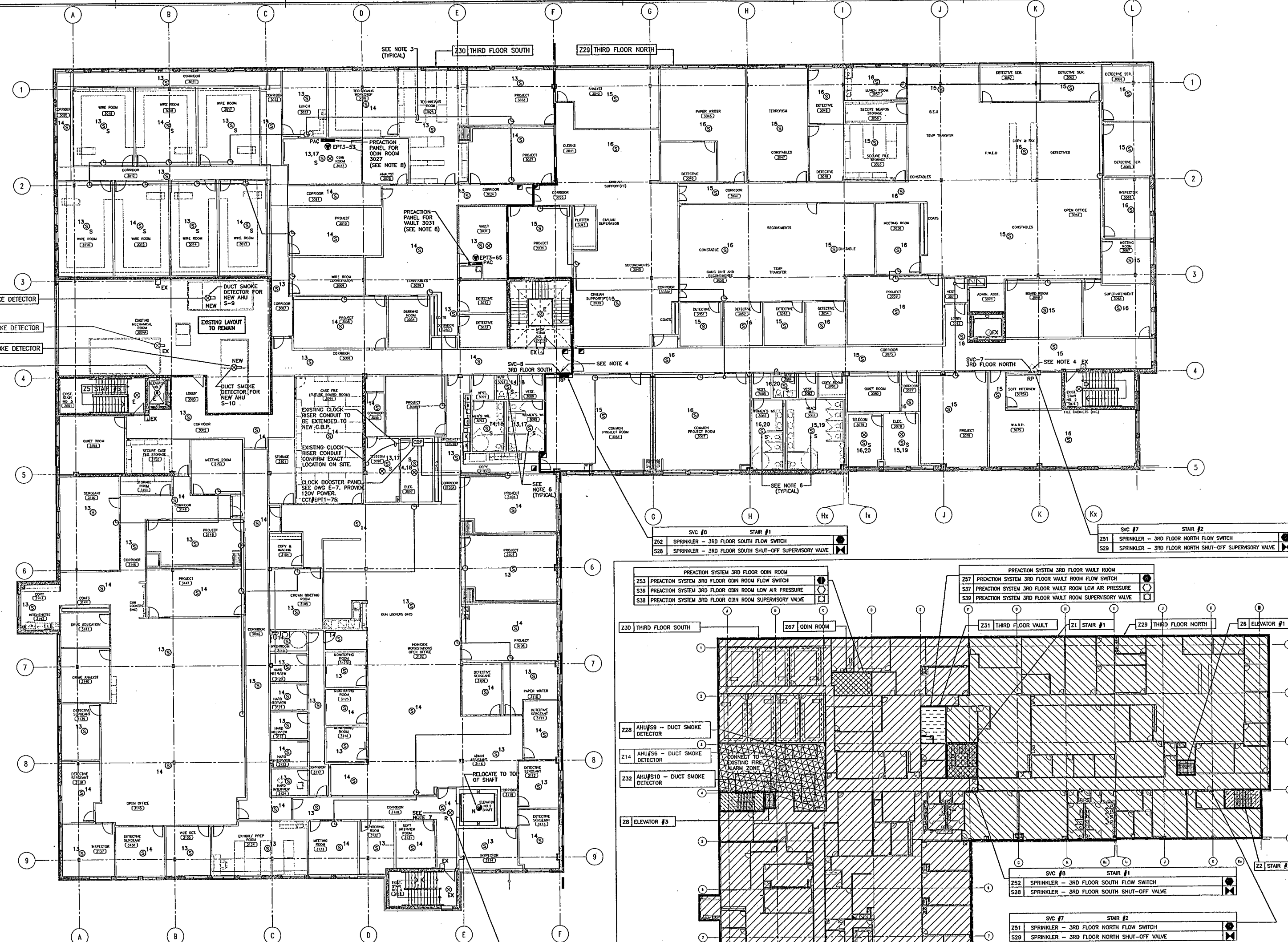
CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

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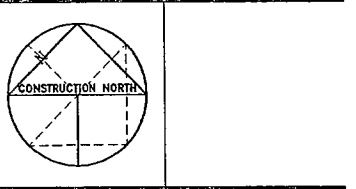
- NOTE:
- PROVIDE CASH ALLOWANCE TO INCLUDE IN TENDER PRICE FOR SUPPLY, INSTALLATION AND WIRING (60'-0" OF CONDUIT AND WIRING FOR FUTURE SIX (6) FIRE ALARM CLOING CONE SPEAKERS. THESE SPEAKERS WILL BE INSTALLED ONLY IF REQUESTED BY FIRE DEPARTMENT. EACH CONE SPEAKER SHALL BE CONNECTED TO NEAREST FIRE ALARM CONE SPEAKER.
 - PROVIDE CASH ALLOWANCE TO INCLUDE IN TENDER PRICE FOR SUPPLY, INSTALLATION AND WIRING OF ADDITIONAL 4 FIRE ALARM PULL STATIONS (2'x6'-0" OF WIRING IN CONDUIT AND CONNECTION TO NEAREST FIRE ALARM PULL STATION. THESE PULL STATIONS WILL BE INSTALLED ONLY IF REQUESTED BY BUILDING OR FIRE DEPARTMENT.
 - EXACT ROUTING OF CONDUIT AND WIRING TO BE COORDINATED ON SITE. PROVIDE CONDUIT WIRING AS PER MANUFACTURER'S RECOMMENDATION TO MATCH BASE BUILDING STANDARDS.
 - ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONNECTIONS TO SPRINKLER DEVICES IN SPRINKLER CONTROL STATION AND RECONNECT AND VERIFY AT NEW LOCATION TO ACCOMMODATE NEW PARTITIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND ARCHITECT.
 - CONNECT NEW FIRE ALARM DEVICES TO FIRE ALARM ZONES AS INDICATED IN FIRE ALARM GRAPHIC. CONTRACTOR SHALL COORDINATE EXACT FIRE ALARM ZONE WITH SUREX PRIOR TO COMMENCING WORK.
 - PROVIDE NEW (FIRE ALARM) VISUAL SIGNAL FOR NEW STROBE WHERE INDICATED.
 - INSTALL SMOKE DETECTOR TO PROVIDE OUTPUT FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER TO AUTOMATICALLY INHIBIT PHASE 1 EMERGENCY RECALL OPERATION AS REQUIRED BY ELEVATOR CODE 844-07 SECTION 2.2.3.2.2 AND OEC. SEE DRAWING E-7 FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK WITH ELEVATOR CONTRACTOR.
 - PROVIDE 120V, 1# EMERGENCY CONNECTION FOR PREACTION PANEL FROM CIRCUIT AS NOTED. PREACTION PANEL PROVIDED BY SPRINKLER CONTRACTOR.



LEGEND OF SYMBOLS	
ASIA SMOKE SENSOR, R-REMOTE CONTACT	SPRINKLER SHUT-OFF SUPERVISORY VALVE
MANUAL ALARM PULL STATION	FLOW SWITCH
RECESSED CEILING SPEAKER, 4" ROUND, S DENOTES STROBE LIGHT	DUCT SMOKE DETECTOR (RETURN AIR AND SUPPLY AIR DUCT)
HORN, WALL OR CEILING MOUNTED, 2W SETTING WHERE NOTED	EX DENOTES EXISTING ITEM TO REMAIN
HORN WITH STROBE	ER DENOTES EXISTING ITEM TO BE RELOCATED, EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
120 VOLT SYSTEM CLOCK	RM DENOTES EXISTING ITEM TO BE REMOVED, REMOVE REDUNDANT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CIRCUITS, UNLESS OTHERWISE NOTED. MAKE ALL REMAINING WIRING SAFE.
ISOLATOR	RP DENOTES EXISTING ITEM IN RELOCATED POSITION, UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM ITEM PREVIOUS LOC. AND CONNECT.
HEAT DETECTOR	
SPRINKLER VALVE CABINET REFER TO SPRINKLER DRAWINGS	
PAC PRE-ACTION PANEL	
PREACTION LOW AIR PRESSURE	
PREACTION SUPERVISORY VALVE	

THIRD FLOOR - FIRE ALARM GRAPHIC KEY PLAN

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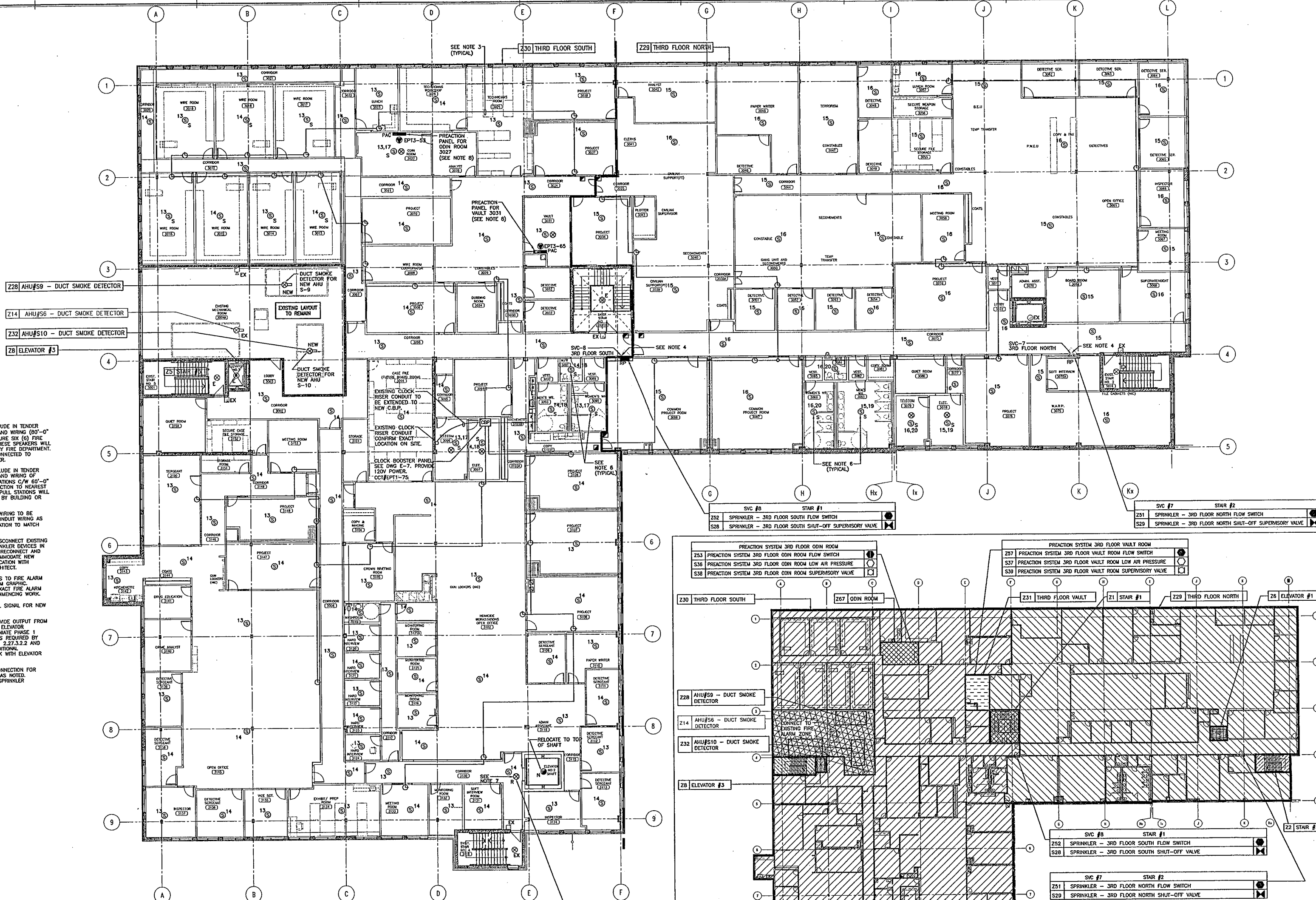
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 EMIL KOLB BUILDING**
 180 DERRY ROAD EAST
 MISSISSAUGA, ONTARIO
 PEEL REGIONAL POLICE

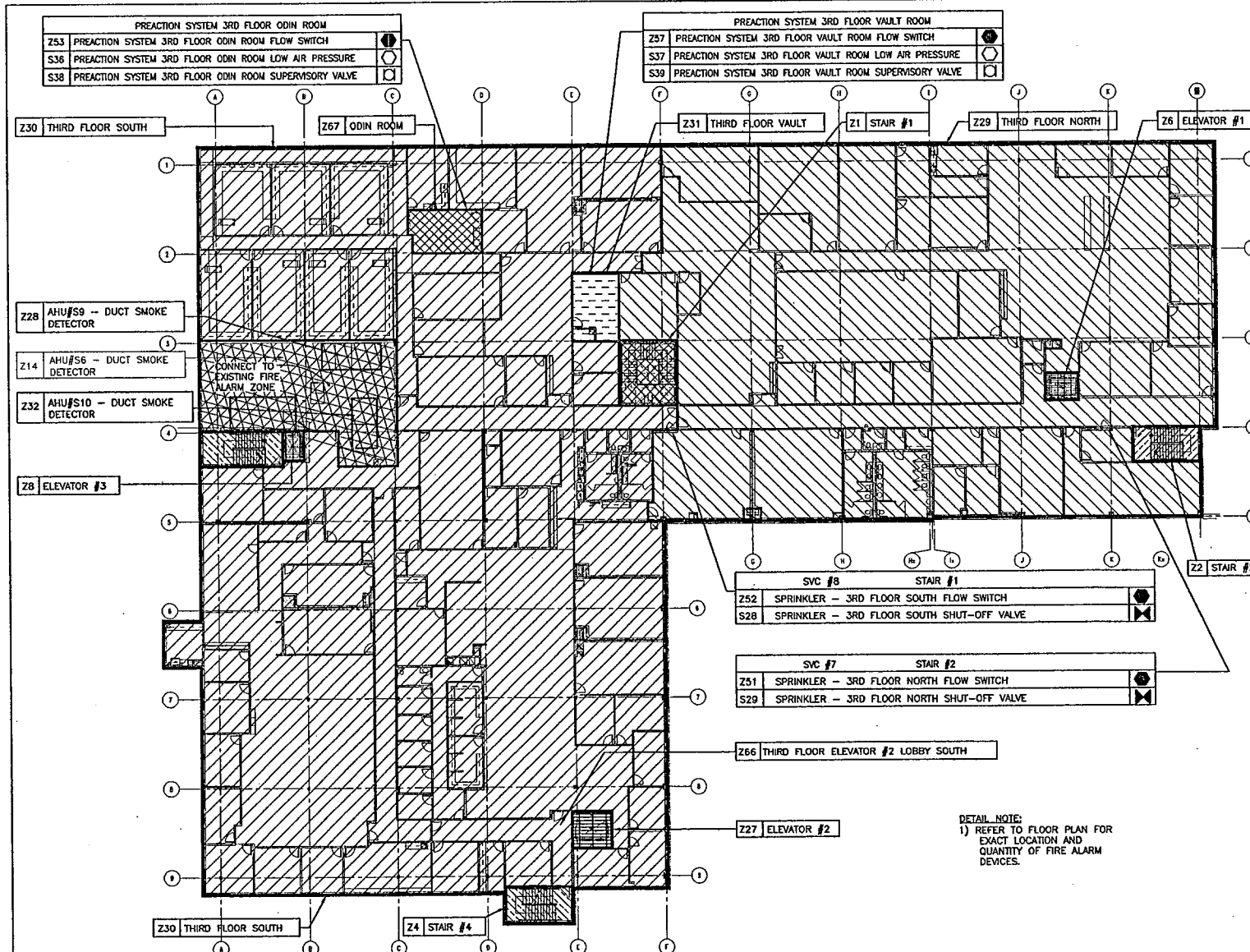
DRAWING TITLE:
**ELECTRICAL
 THIRD FLOOR
 FIRE ALARM AND
 CLOCKS LAYOUTS**

SCALE: 1:150
 PROJECT NO. 06060
 DWG. NO. E-6



- NOTE:
1. PROVIDE CASH ALLOWANCE TO INCLUDE IN TENDER PRICE FOR SUPPLY, INSTALLATION AND WIRING (60'-0" OF CONDUIT AND WIRING FOR FUTURE SIX (6) FIRE ALARM CONDUIT CABLES. THESE SPEAKERS WILL BE INSTALLED ONLY IF REQUESTED BY FIRE DEPARTMENT. EACH CONE SPEAKER SHALL BE CONNECTED TO NEAREST FIRE ALARM CONE SPEAKER.
 2. PROVIDE CASH ALLOWANCE TO INCLUDE IN TENDER PRICE FOR SUPPLY, INSTALLATION AND WIRING OF ADDITIONAL 4 FIRE ALARM PULL STATIONS (60'-0" OF WIRING IN CONDUIT AND CONNECTION TO NEAREST FIRE ALARM PULL STATION. THESE PULL STATIONS WILL BE INSTALLED ONLY IF REQUESTED BY BUILDING OR FIRE DEPARTMENT.
 3. EXACT ROUTING OF CONDUIT AND WIRING TO BE COORDINATED ON SITE. PROVIDE CONDUIT WIRING AS PER MANUFACTURER'S RECOMMENDATION TO MATCH BASE BUILDING STANDARDS.
 4. ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM CONNECTIONS TO SPRINKLER DEVICES IN SPRINKLER CONTROL STATION AND RECONNECT AND VERIFY AT NEW LOCATION TO ACCOMMODATE NEW PARTITIONS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND ARCHITECT.
 5. CONNECT NEW FIRE ALARM DEVICES TO FIRE ALARM ZONES AS INDICATED IN FIRE ALARM GRAPHIC. CONTRACTOR SHALL COORDINATE EXACT FIRE ALARM ZONE WITH SUPLEX PRIOR TO COMMENCING WORK.
 6. PROVIDE NEW (FIRE ALARM) VISUAL SIGNAL FOR NEW STROBE WHERE INDICATED.
 7. INSTALL SMOKE DETECTOR TO PROVIDE OUTPUT FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER TO AUTOMATICALLY INHIBIT PHASE 1 EMERGENCY RECALL OPERATION AS REQUIRED BY ELEVATOR CODE 844-07 SECTION 2.2.3.2.2 AND OEC. SEE DRAWING E-7 FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK WITH ELEVATOR CONTRACTOR.
 8. PROVIDE 120V, 1# EMERGENCY CONNECTION FOR PREACTION PANEL FROM CIRCUIT AS NOTED. PREACTION PANEL PROVIDED BY SPRINKLER CONTRACTOR.

LEGEND OF SYMBOLS	
	SPRINKLER SHUT-OFF SUPERVISORY VALVE
	FLOW SWITCH
	DUCT SMOKE DETECTOR (RETURN AIR AND SUPPLY AIR DUCT)
	EX DENOTES EXISTING ITEM TO REMAIN
	ER DENOTES EXISTING ITEM TO BE RELOCATED, EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION, UNLESS OTHERWISE NOTED.
	RM DENOTES EXISTING ITEM TO BE REMOVED, REMOVE REDUNDANT WIRING AND RETAIN THE INTEGRITY OF THE EXISTING CIRCUITS, UNLESS OTHERWISE NOTED. MAKE ALL REMAINING WIRING SAFE.
	RP DENOTES EXISTING ITEM IN RELOCATED POSITION, UNLESS OTHERWISE NOTED, EXTEND EXISTING CONDUIT AND WIRES FROM ITEM PREVIOUS LOC. AND CONNECT.



THIRD FLOOR - FIRE ALARM GRAPHIC KEY PLAN

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KEY TO DETAIL LOCATION	
No.	DETAIL NUMBER

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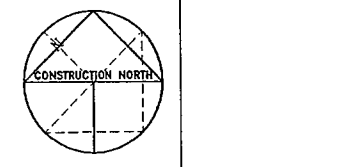
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EMIL KOLB BUILDING

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:

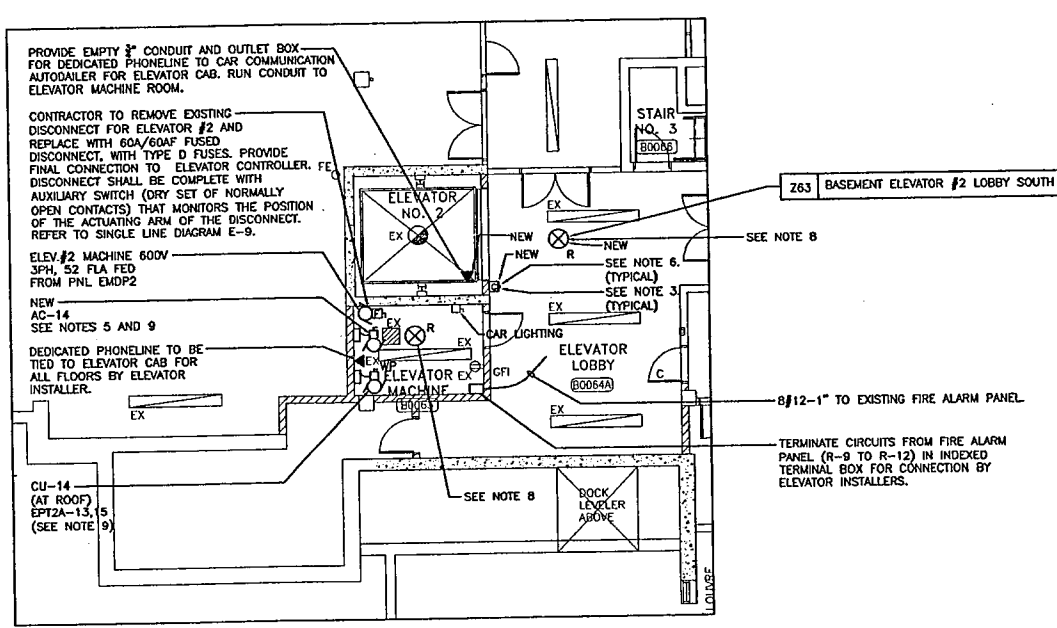
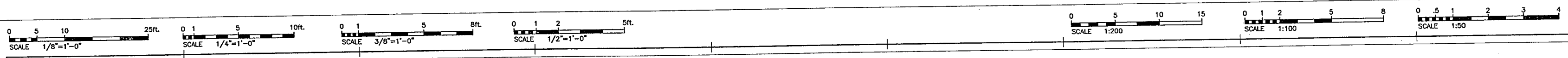
ELECTRICAL
THIRD FLOOR
FIRE ALARM AND
CLOCKS LAYOUTS

SCALE: 1:150

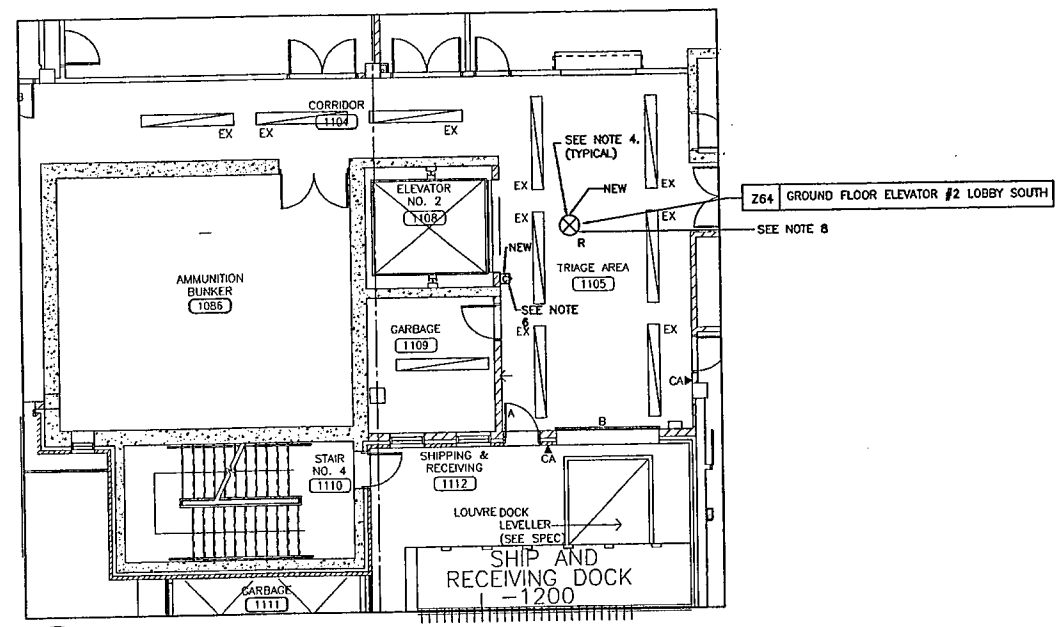
PROJECT NO.

DWG. NO.

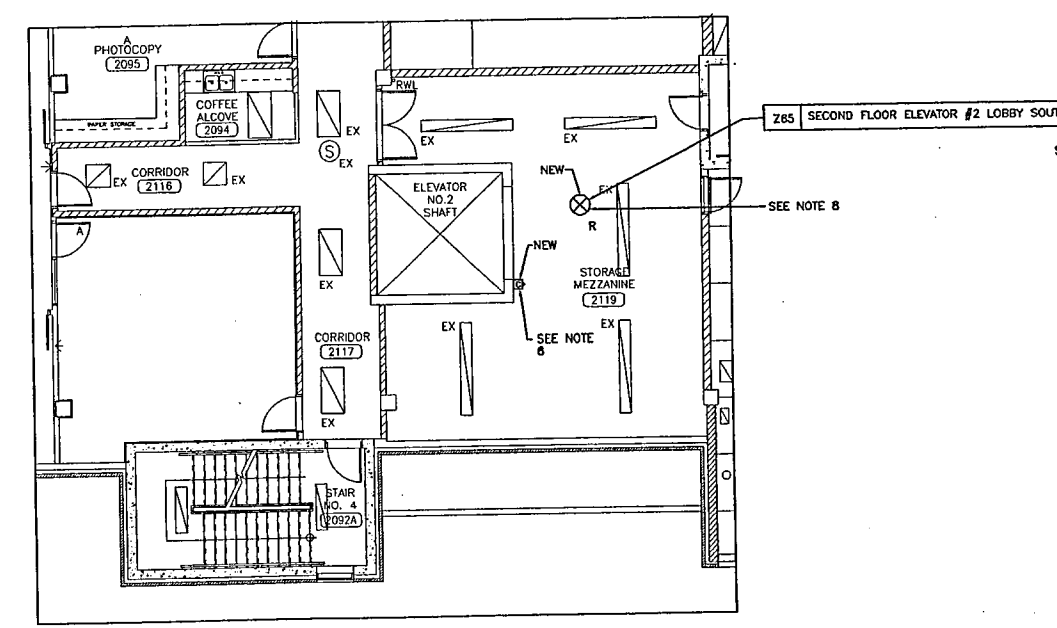
06060 E-6



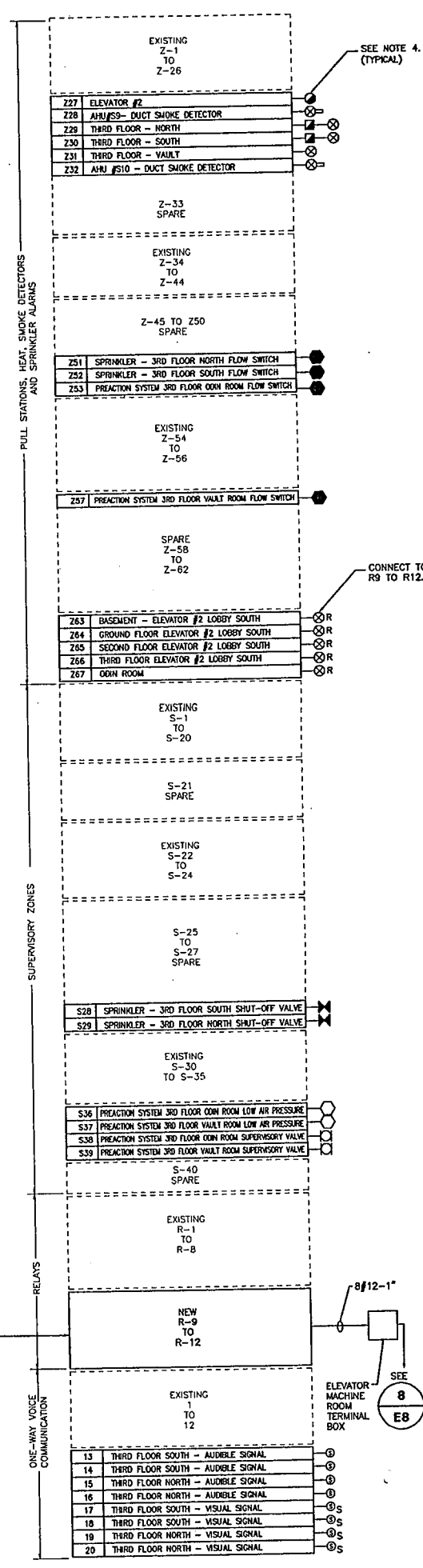
8 BASEMENT PART PLAN - ELECTRICAL
E8 1:100



9 GROUND FLOOR PART PLAN - ELECTRICAL
E9 1:100

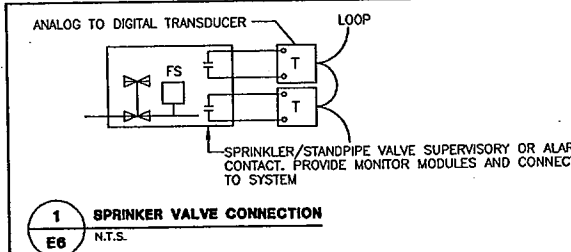


10 SECOND FLOOR PART PLAN - ELECTRICAL
E10 1:100

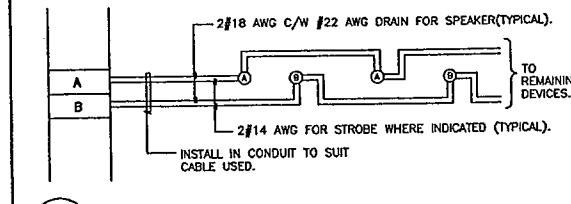


LEGEND:
--- EXISTING TO REMAIN
--- NEW WORK

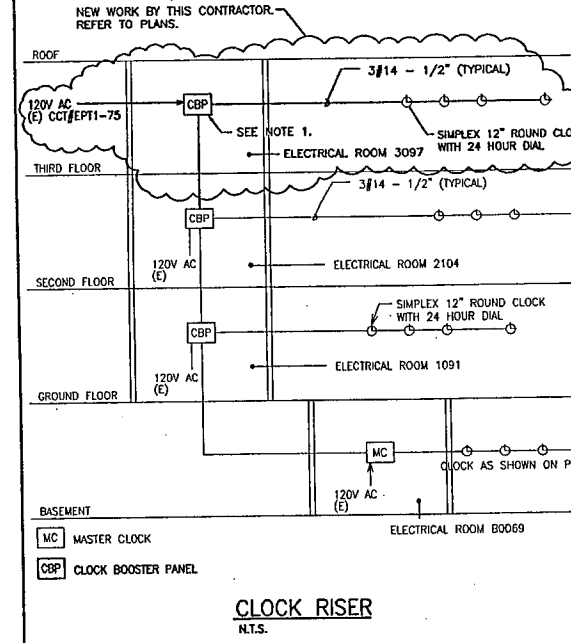
- NOTES
- 1) EXTEND EXISTING CONDUIT IN ELECTRICAL ROOM 3097 TO NEW CLOCK BOOSTER PANEL. SITE VERIFY EXACT LOCATION AND ROUTING OF CLOCK RISER CONDUIT SYSTEM.
 - 2) BOLD ZONE DESIGNATIONS ARE SHOWN AS NEW WORK. CONFIRM EXISTING ZONE NUMBERS AND AVAILABLE SPACES WITH SIMPLEX FIRE ALARM MANUFACTURER PRIOR TO COMMENCING WORK.
 - 3) REFER TO DRAWING E-11 FOR SECURITY SYMBOLS LEGEND.
 - 4) REFER TO DRAWING E-6 FOR FIRE ALARM SYMBOLS LEGEND.
 - 5) PROVIDE NEW 15A-2P CIRCUIT BREAKER IN NEAREST EMERGENCY 120/208V, 3W PANEL IN BASEMENT. PROVIDE NEW 2#12-3/4" FEEDER TO AC-14 AND CONNECT TO NEW 15A-2P CIRCUIT BREAKER.
 - 6) REFER TO SECURITY DRAWING E-13 AND SPECIFICATIONS FOR WIRING REQUIREMENTS TO SIGNAL THE ELEVATOR CONTROLLER FROM CARD READER AT EACH ELEVATOR LOBBY.
 - 7) NEW SIGNAL CIRCUITS FOR SMOKE DETECTORS IN ELEVATOR LOBBIES (263 TO 265).
 - 8) SMOKE DETECTORS SHALL BE INSTALLED TO PROVIDE OUTPUTS FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER TO AUTOMATICALLY INVOKE PHASE 1 EMERGENCY RECALL OPERATION AND SHALL BE LOCATED IN:
A) AT EACH FLOOR SERVED BY THE ELEVATOR;
B) IN THE ASSOCIATED ELEVATOR MACHINE ROOM.
THE INSTALLATION OF THESE DETECTORS SHALL BE IN CONFORMANCE WITH CBC AND ELEVATOR CODE 644-07 SECTION 2.2.7.3.2.2. PROVIDE (3) SEPARATE SIGNALS TO ELEVATOR CONTROLLER: ONE FROM THE MAIN RECALL LEVEL (AS DETERMINED BY ARCHITECT AND OWNER) ONE SIGNAL FROM ANY OTHER FLOOR LEVEL SERVED BY THE ELEVATOR AND ONE FROM THE ELEVATOR MACHINE ROOM.
 - 9) PACKAGE CONTROLLER AND LOW VOLTAGE CONTROL WIRING PROVIDED BY DIV. 15. LINE VOLTAGE WIRING AND POWER TO CONTROLLER AND MOTOR PROVIDED BY DIV. 16.



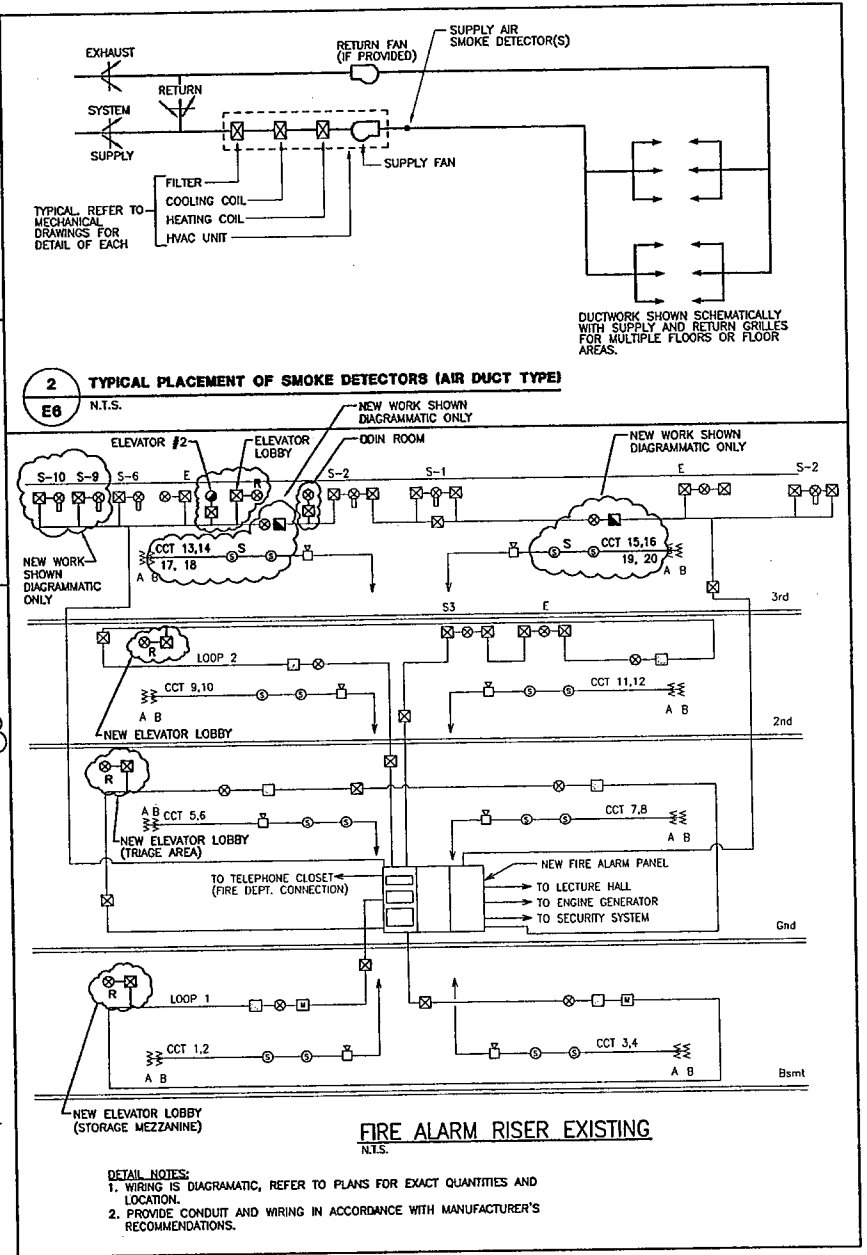
1 SPRINKLER VALVE CONNECTION
E6 N.T.S.



3 SIGNAL DEVICE WIRING
E6 N.T.S.



CLOCK RISER
N.T.S.



FIRE ALARM RISER EXISTING
N.T.S.

DETAIL NOTES:
1. WIRING IS DIAGRAMATIC, REFER TO PLANS FOR EXACT QUANTITIES AND LOCATION.
2. PROVIDE CONDUIT AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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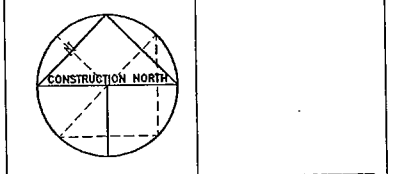
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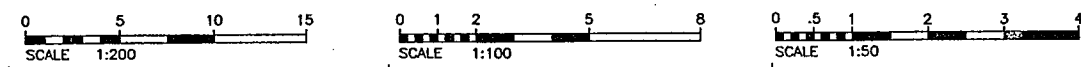
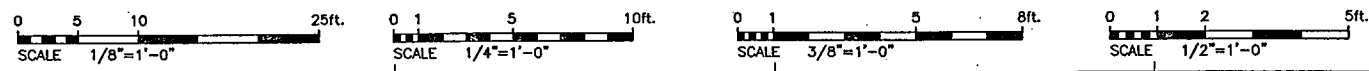
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EMIL KOLB BUILDING
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:
**ELECTRICAL
FIRE ALARMS RISERS
DIAGRAMS AND DETAILS**

SCALE: 1:150
PROJECT NO. 06060
DWG. NO. E-7

FILENAME: P:\06060\CAUD\06060-06060.dwg
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KEY TO DETAIL LOCATION

No.	DETAIL	NUMBER
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PANEL SCHEDULE						
LIGHTING & POWER PANELS	LOCATION	No. 15A-1P BREAKERS AND THEIR CIRCUITS	No. 20A-1P BREAKERS AND THEIR CIRCUITS	No. OTHER BREAKERS AND THEIR CIRCUITS	No. 1P SPACES	REMARKS
LPT-1	ELECTRICAL ROOM 3078	-	24 (CCT'S 1 TO 23, 2 TO 24)	-	6	100A, 30 CIRCUITS, 347/600V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
LPT-2	ELECTRICAL ROOM 3097	-	24 (CCT'S 1 TO 23, 2 TO 24)	-	6	100A, 30 CIRCUITS, 347/600V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
ELPT1	ELECTRICAL ROOM 3078	1 (CCT #1) (LOCK-ON BREAKER)	21 (CCT'S 3 TO 23; 4, 8 TO 24) 2 (CCT'S 2, 6) (LOCK-ON BREAKER)	-	6	100A, 30 CIRCUITS, 347/600V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
ELPT2	ELECTRICAL ROOM 3097	2 (CCT'S #1,10) (LOCK-ON BREAKER)	19 (CCT'S 1, 3, 11 TO 23; 2 TO 6, 12 TO 24) 3 (CCT'S 5 TO 9) (LOCK-ON BREAKER)	-	6	100A, 30 CIRCUITS, 347/600V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
PT1	ELECTRICAL ROOM 3078	35 (CCT'S #1 TO 23, 27 TO 35, 2 TO 36)	1 (CCT#25)	-	6	100A, 42 CIRCUITS, 120/208V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
PT2	CORRIDOR 3044	79 (CCT'S 1 TO 41, 2 TO 42, 43 TO 63, 44 TO 56, 62 TO 66, 70 TO 79)	2 (CCT'S 60,68)	-	3	200A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
PT3	ELECTRICAL ROOM 3078	75 (CCT'S 1 TO 41, 2 TO 42, 43 TO 46, 53 TO 77, 48 TO 78)	3 (CCT'S 61,44,46)	-	6	200A, 84 CIRCUITS, 120/208V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
PT4	CORRIDOR 3007	76 (CCT'S 1 TO 41, 2 TO 10, 14 TO 42, 43, 45, 49 TO 77, 48 TO 79)	2 (CCT'S 12,47)	-	6	200A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
PT5	CORRIDOR 3004	76 (CCT'S 1 TO 41, 2 TO 42, 43 TO 63, 65, 69, 71, 44 TO 64)	5 (CCT'S 61, 67, 73, 75, 77)	-	-	200A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
UPS-T1	ELECTRICAL ROOM 3097	66 (CCT'S 1 TO 65, 2 TO 66)	-	-	-	100A, 66 CIRCUITS, 120/208V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
UPS-T2	CORRIDOR 3007	78 (CCT'S 1 TO 41, 2 TO 42, 43 TO 63, 44 TO 72)	-	1-60A-3P (CCT'S 74, 76, 78)	3	400A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
UPS-T2A	CORRIDOR 3007	66 (CCT'S 1 TO 65, 2 TO 66)	-	-	-	100A, 66 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL
UPS-T3	CORRIDOR 3004	78 (CCT'S 1 TO 41, 2 TO 42, 43 TO 77, 44 TO 78)	-	-	6	200A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
UPS-T4	ELECTRICAL ROOM 3078	36 (CCT #1 TO 35, 2 TO 36)	-	-	6	100A, 42 CIRCUITS, 120/208V, 34, 4W SURFACE MOUNTED SPRINKLER PROOF PANEL
UPS-T5	CORRIDOR 3044	78 (CCT'S 1 TO 41, 2 TO 42, 43 TO 77, 44 TO 79)	-	-	6	200A, 84 CIRCUITS, 120/208V, 34, 4W FLUSH MOUNTED SPRINKLER PROOF PANEL C/W 100A-3P MAIN BREAKER
UPS-T6	ODIN ROOM 3027	14 (CCT'S 1 TO 13, 21 TO 23, 18 TO 30)	-	8-30A-2P (CCT'S 5, 7; 9, 11; 13, 15; 17, 19; 21, 23; 25, 27; 29, 31; 33, 35; 37, 39; 41, 43; 45, 47; 49; 51; 53; 55; 57; 59; 61; 63; 65; 67; 69; 71; 73; 75; 77; 79; 81; 83; 85; 87; 89; 91; 93; 95; 97; 99; 101; 103; 105; 107; 109; 111; 113; 115; 117; 119; 121; 123; 125; 127; 129; 131; 133; 135; 137; 139; 141; 143; 145; 147; 149; 151; 153; 155; 157; 159; 161; 163; 165; 167; 169; 171; 173; 175; 177; 179; 181; 183; 185; 187; 189; 191; 193; 195; 197; 199; 201; 203; 205; 207; 209; 211; 213; 215; 217; 219; 221; 223; 225; 227; 229; 231; 233; 235; 237; 239; 241; 243; 245; 247; 249; 251; 253; 255; 257; 259; 261; 263; 265; 267; 269; 271; 273; 275; 277; 279; 281; 283; 285; 287; 289; 291; 293; 295; 297; 299; 301; 303; 305; 307; 309; 311; 313; 315; 317; 319; 321; 323; 325; 327; 329; 331; 333; 335; 337; 339; 341; 343; 345; 347; 349; 351; 353; 355; 357; 359; 361; 363; 365; 367; 369; 371; 373; 375; 377; 379; 381; 383; 385; 387; 389; 391; 393; 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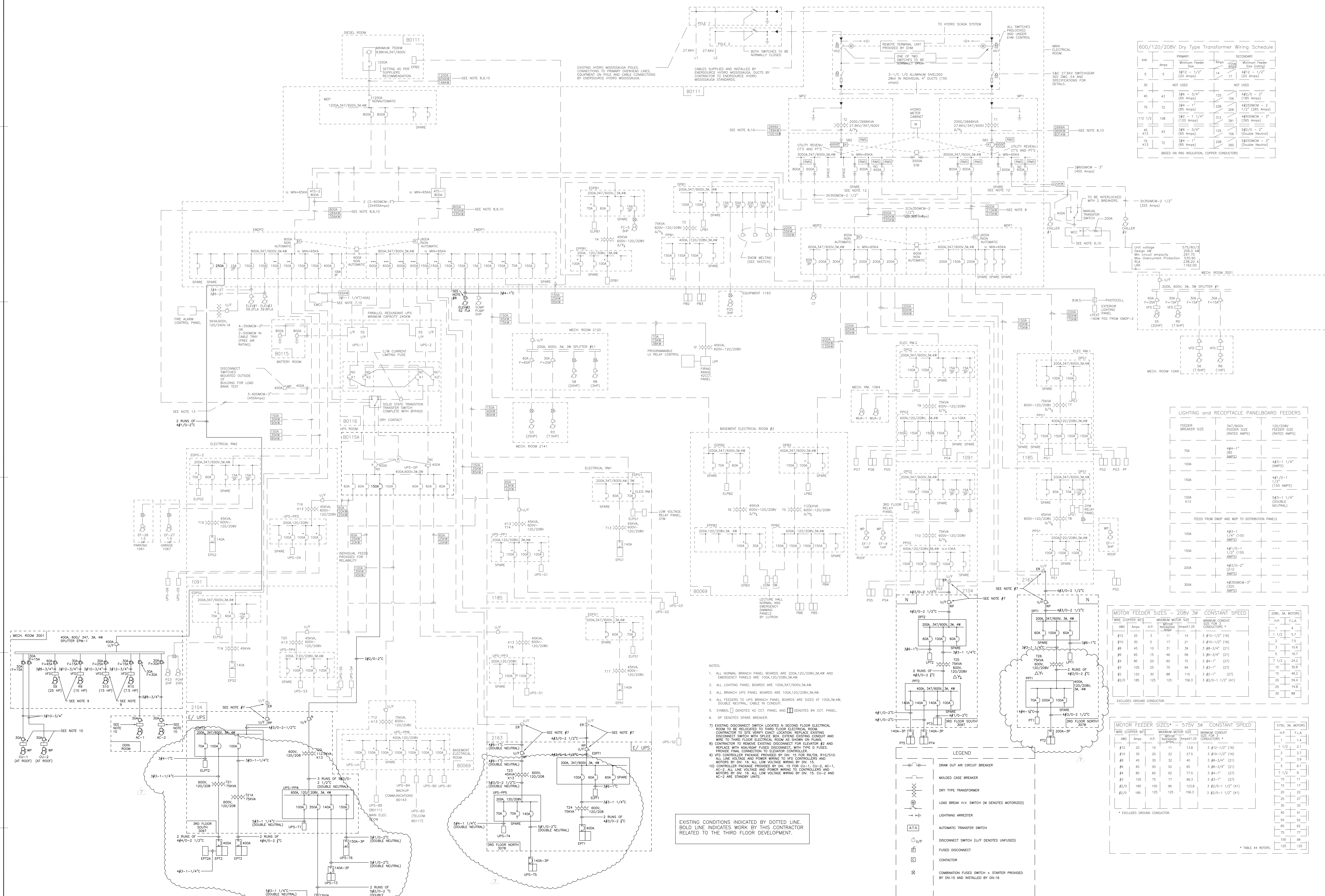
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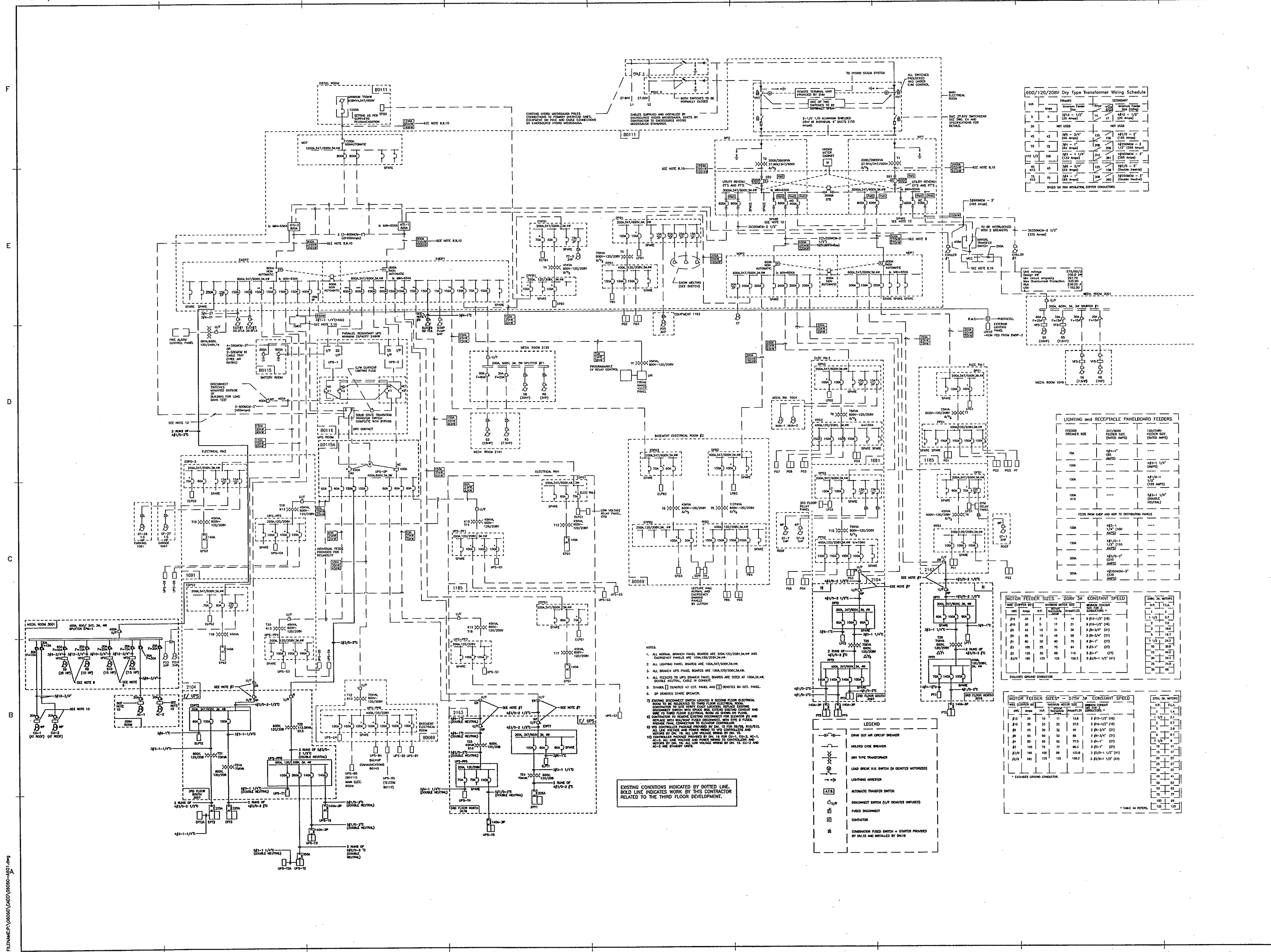
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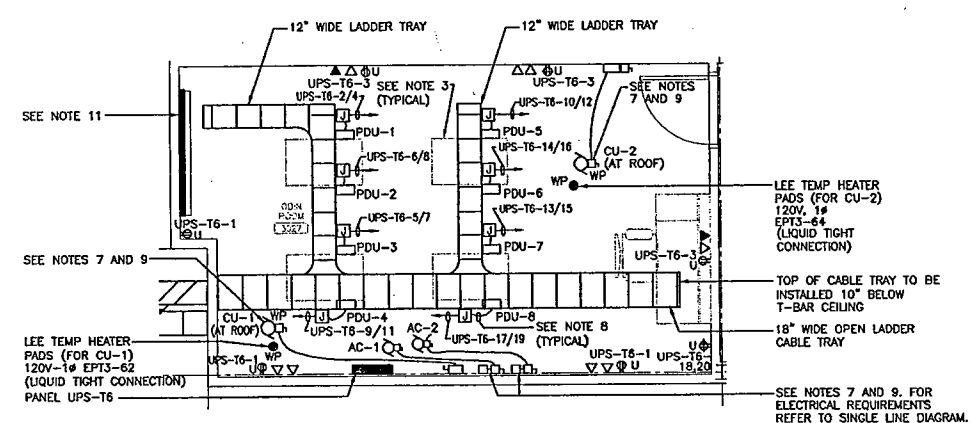
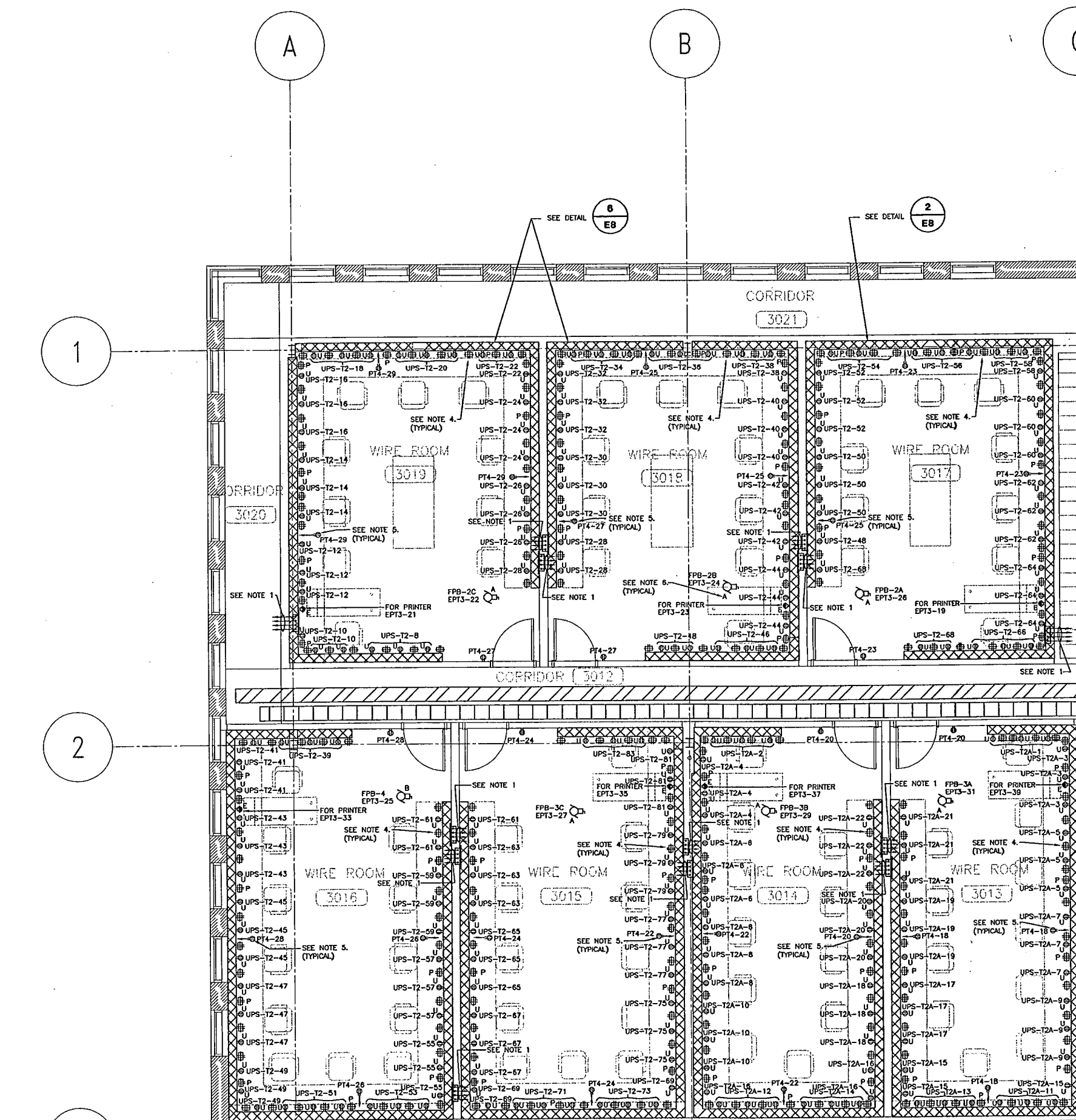
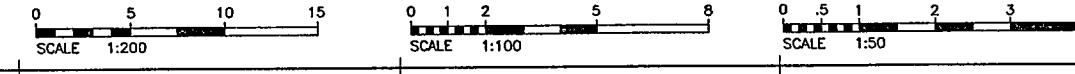
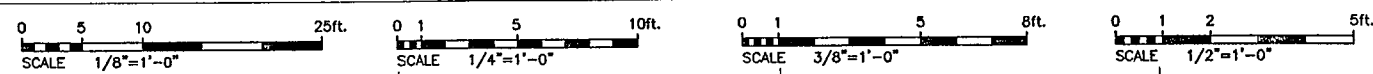
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NO.	REVISION/ISSUE	DATE
1	ISSUED FOR PRICING	OCT. 12, 2007
2	ISSUED FOR PERMIT	OCT. 22, 2007
3	ISSUED FOR 90% SUBMISSION	JAN. 7, 2008
4	ISSUED FOR FINAL REVIEW	MAR. 6, 2008
5	REVISED FOR BUILDING PERMIT	MAR. 24, 2008
6	ISSUED FOR TENDER	APR. 21, 2008
7	ISSUED FOR ADDENDUM #E-1	MAY 05, 2008

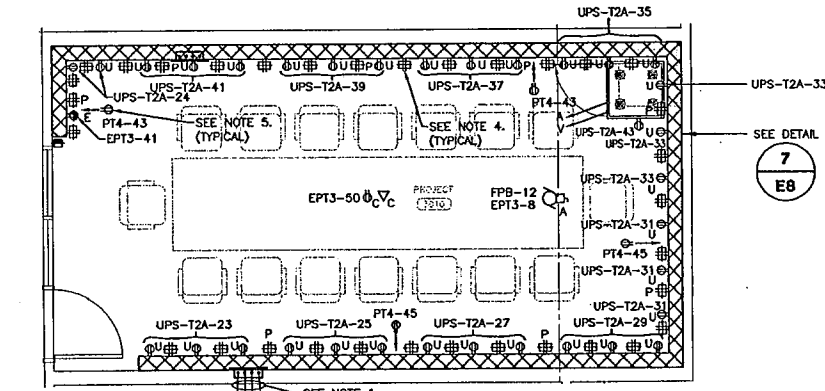




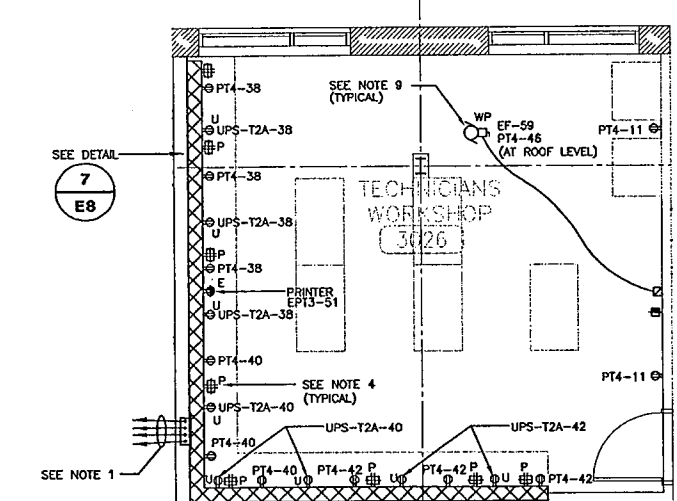
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2 ODIN ROOM POWER AND COMMUNICATION PART PLAN
E10 1:50



3 PROJECT ROOM 3010 POWER AND COMMUNICATION PART PLAN
E10 1:50



4 TECHNICIAN'S WORKSHOP POWER AND COMMUNICATION PART PLAN
E10 1:50

1 WIRE ROOMS POWER AND COMMUNICATION PART PLANS
E10 1:50

2
E8

2
E8

- NOTES:
- 1) PROVIDE 1-2" CONDUIT C/W WIRING FOR UPS POWER CIRCUITS IN ROOM. HOMERUN TO UPS PANEL AS NOTED FOR CIRCUITS IN ROOM. PROVIDE 1-1" CONDUIT C/W WIRING FOR EMERGENCY POWER CIRCUITS IN ROOM. HOMERUN TO EMERGENCY PANEL AS NOTED.
 - 2) PROVIDE 1-1" CONDUIT C/W WIRING FOR NORMAL POWER CIRCUITS IN ROOM. HOMERUN TO NORMAL PANEL AS NOTED.
 - 3) PROVIDE 1-2" CONDUIT C/W PULLING FOR COMMUNICATION. STUD CONDUIT UP TO CEILING SPACE.
 - 4) REFER TO SPEC TECH DRAWINGS FOR EXACT CABLE REQUIREMENTS FOR ALL COMMUNICATION DEVICES.
 - 5) GROUNDING OF ALL COMMUNICATION CABINETS AND EQUIPMENT PROVIDED BY COMMUNICATION CONTRACTOR.
 - 6) ALL WIRINGWAYS COMPLETE WITH RECEPTABLES AND COMMUNICATION OUTLETS ARE TO BE MOUNTED OVER COUNTER AT MOUNTING HEIGHT AS SPECIFIED BY ARCHITECT'S DRAWINGS AND DETAILS.
 - 7) RECEPTABLE SHALL BE MOUNTED ON WALL UNDER DESK AT 12" A.F.F. (TYPICAL FOR ALL 4 RECEPTABLES ON NORMAL POWER IN WIRE ROOM).
 - 8) REFER TO FAN POWER BOX SCHEDULE ON DRAWING E-5 FOR ELECTRICAL REQUIREMENTS. FOR FAN POWERED BOXES.
 - 9) PROVIDE CONTROLLERS AND LOW VOLTAGE CONTROL WIRING PROVIDED BY DM 15. LINE VOLTAGE WIRING AND POWER TO CONTROLLER AND MOTOR PROVIDED BY DM 16.
 - 10) REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
 - 11) DM 16 SHALL PROVIDE 200V 1A 30A UPS FEEDER TO CABLE TRAY SIDE MOUNTED JUNCTION BOX AS SHOWN. PROVIDE 10' CORD FROM JUNCTION BOX TO INTERNAL RACK PDU (PROVIDED BY OWNER). CORD SHALL BE EQUIPPED WITH 30A TWIST-LOCK PLUG (CSA LE-30P CONFIGURATION). PROVIDE CONNECTION TO LE-30P TWIST-LOCK RECEPTABLE (FURNISHED WITH RACK PDU) ONCE EQUIPMENT IS IN PLACE. COORDINATE WITH OWNER FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO INSTALLATION.
 - 12) REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR FURTHER ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.
 - 13) UNLESS NOTED OTHERWISE, ALL CABLES SHALL BE ROUTED BACK TO DOWN ROOM. "V" DENOTES VOICE/DATA CABLES ROUTED BACK TO TELECOM ROOM 3006 ON OPEN LADDER CABLE TRAY.
 - 14) COMMUNICATION FLYWIRE BACKWARD PROVIDED BY COMMUNICATION CONTRACTOR. GROUND BUS BAR PROVIDED BY DM 16. PROVIDE #12/0 BARE COPPER GROUND FROM GROUND BUS BAR TO ELECTRICAL ROOM BUILDING GROUND (BY DM 16).

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No.	DETAIL NUMBER

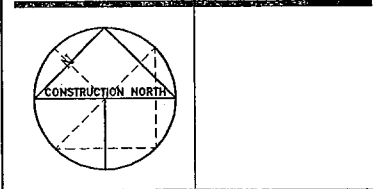
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DRAWINGS SHOULD NOT BE SCALED.

NO.	REVISION/ISSUE	DATE
1	ISSUED FOR PRICING	OCT. 12, 2007
2	ISSUED FOR PERMIT	OCT. 22, 2007
3	ISSUED FOR 90% SUBMISSION	JAN. 7, 2008
4	ISSUED FOR FINAL REVIEW	MAR. 6, 2008
5	REVISED FOR BUILDING PERMIT	MAR. 24, 2008
6	ISSUED FOR TENDER	APR. 21, 2008

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CS&P Architects
DRAWN BY: JS
CHECKED BY: JC
DATE: APRIL 21, 2008
PROJECT TITLE:

THIRD FLOOR EXPANSION
EMIL KOLB BUILDING

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:

ELECTRICAL
THIRD FLOOR
TECHNICIAN, ODIN AND
WIRE ROOMS LAYOUTS

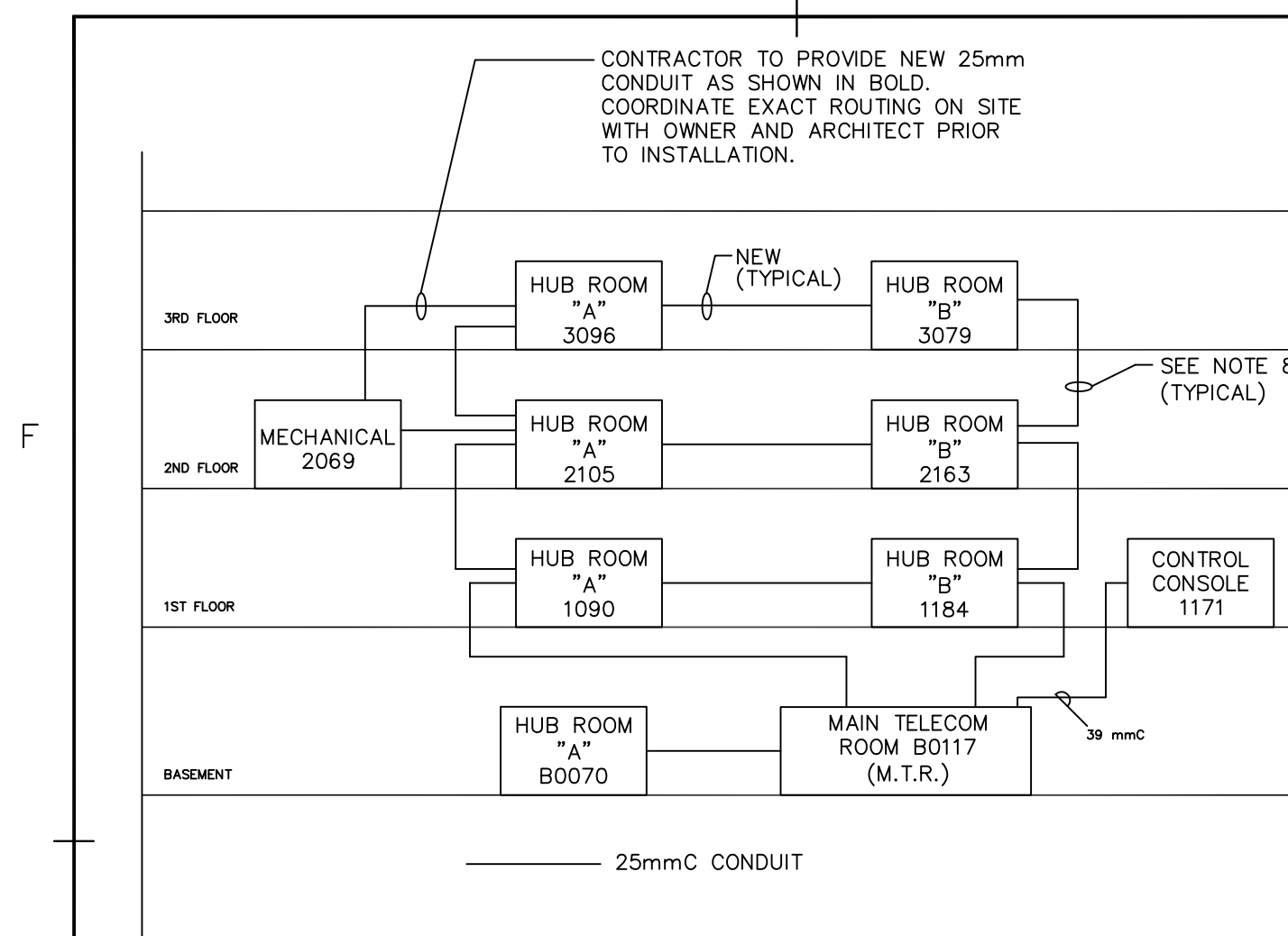
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PROJECT NO. 06060
DWG. NO. E-10

PLANNER: J. GORDON / CAD: J. GORDON / E101.dwg

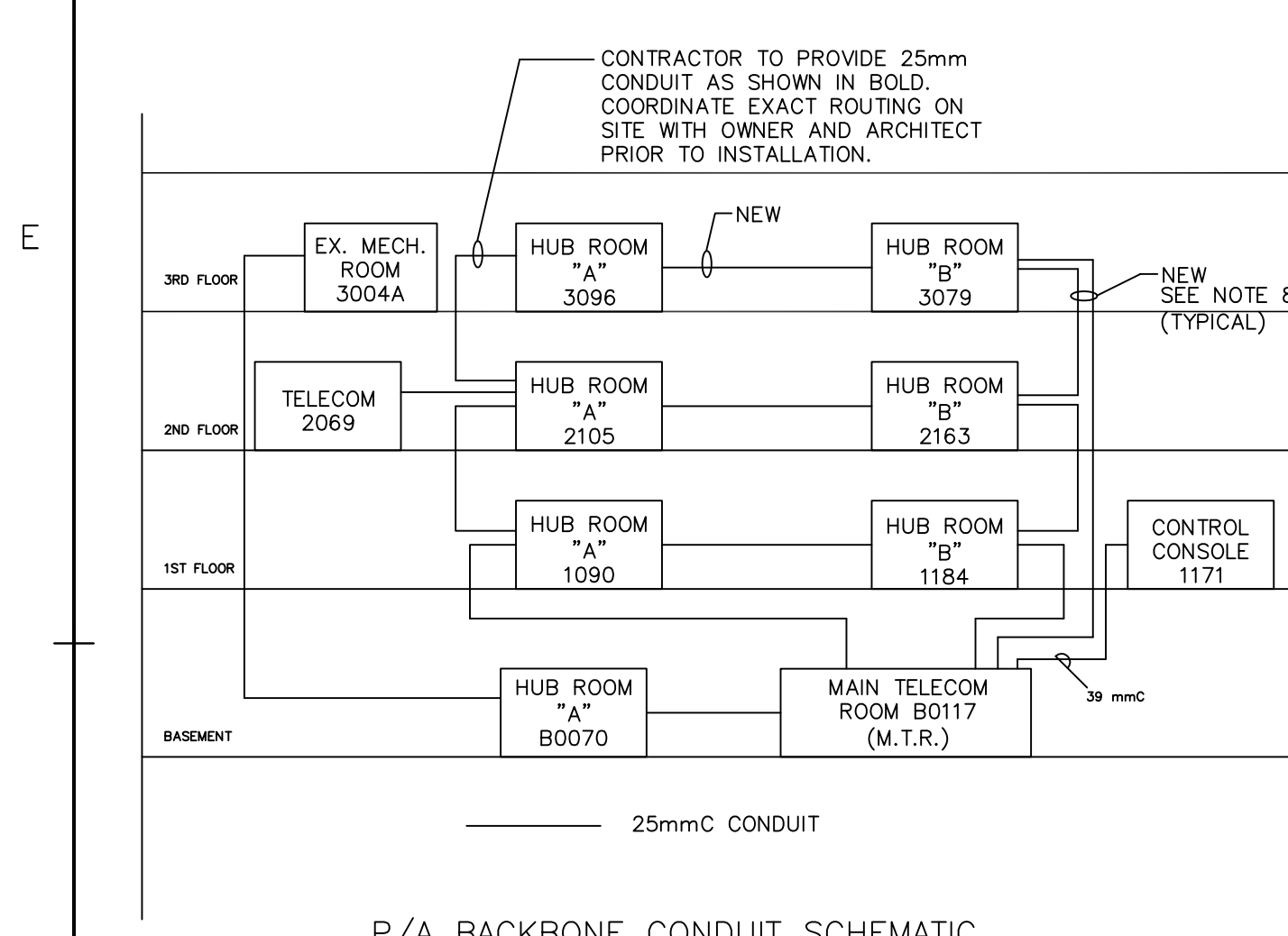
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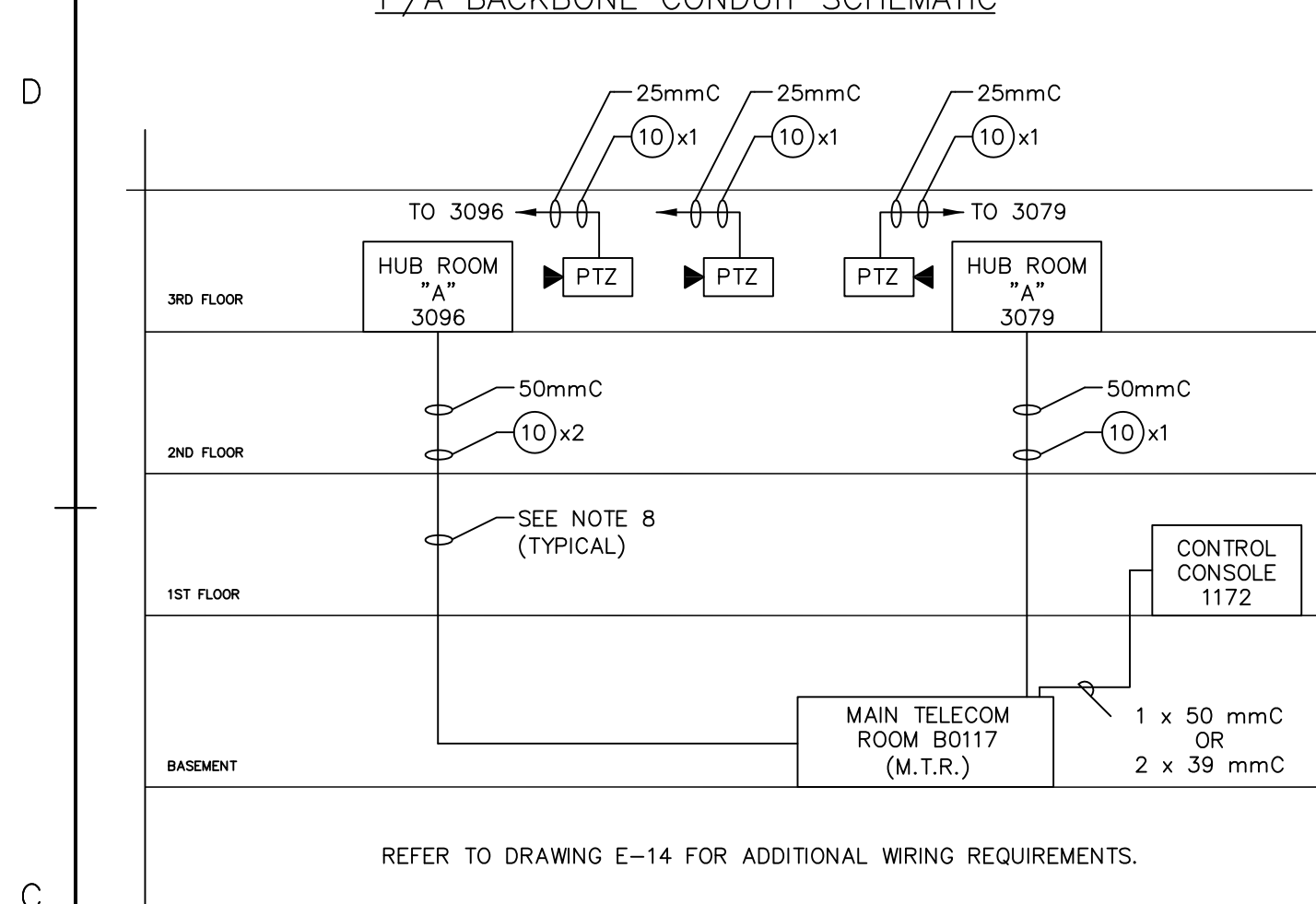
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CARD ACCESS BACKBONE CONDUIT SCHEMATIC

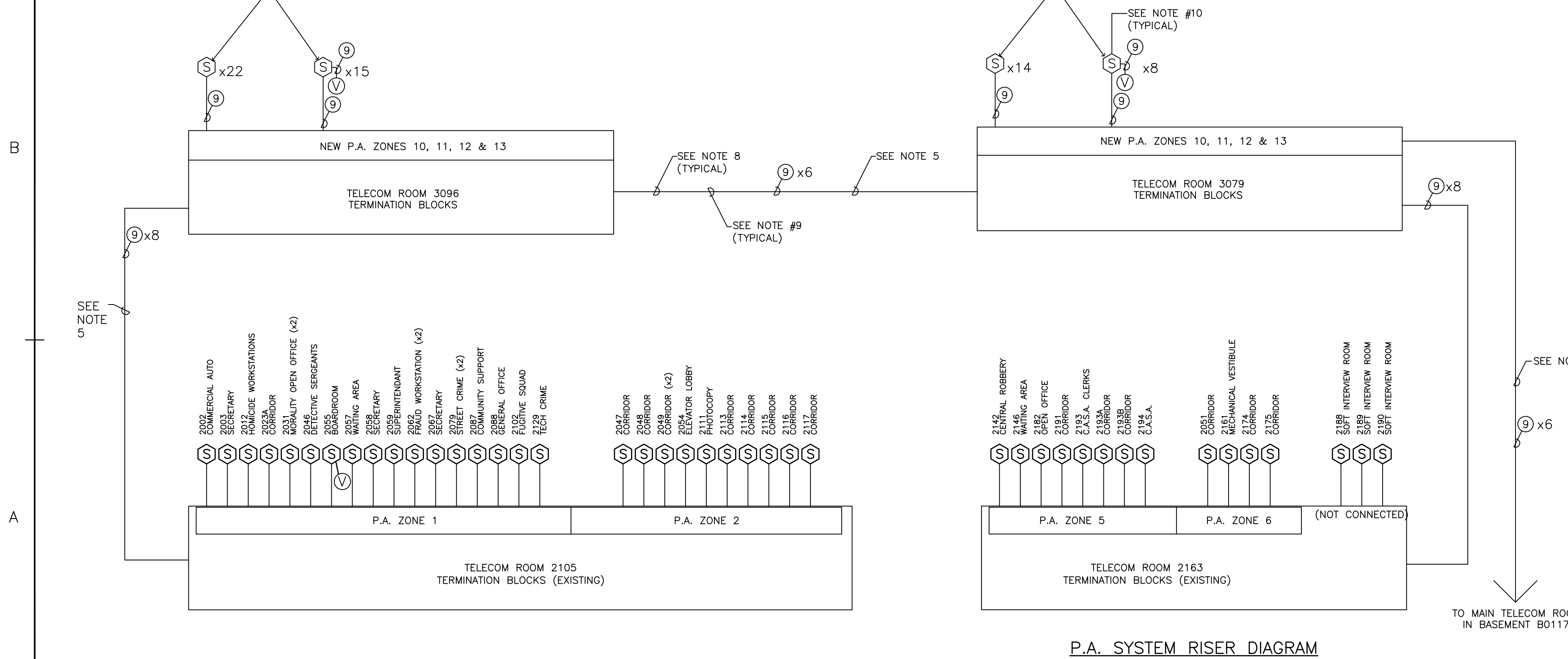


P/A BACKBONE CONDUIT SCHEMATIC

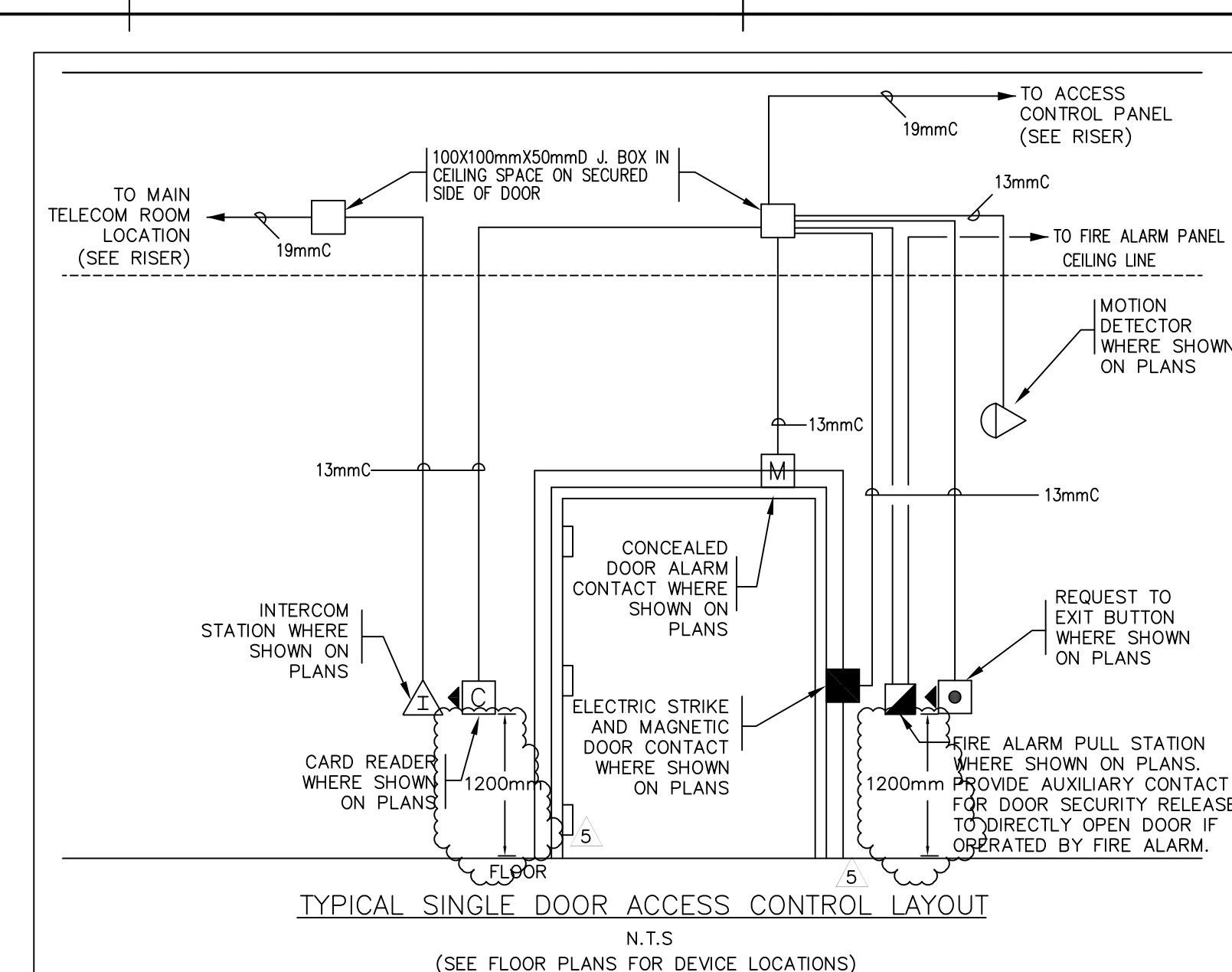
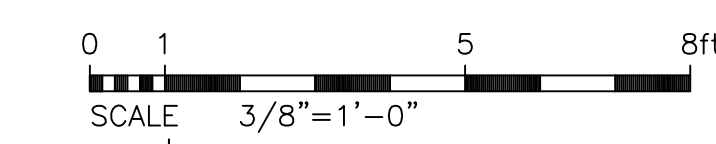


CCTV BACKBONE CONDUIT SCHEMATIC

- KEYED NOTES:
- EQUIPMENT LOCATIONS RELATED TO SECURITY. ALL OTHER EQUIPMENT SHOWN IN ROOMS PERTAIN TO OTHER SYSTEMS.
 - 4"x8" BACKBOARD SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR.
 - SEE DRAWINGS FOR EXACT LOCATIONS.



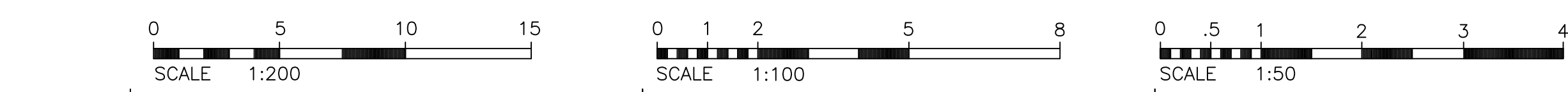
P.A. SYSTEM RISER DIAGRAM



TYPICAL SINGLE DOOR ACCESS CONTROL LAYOUT

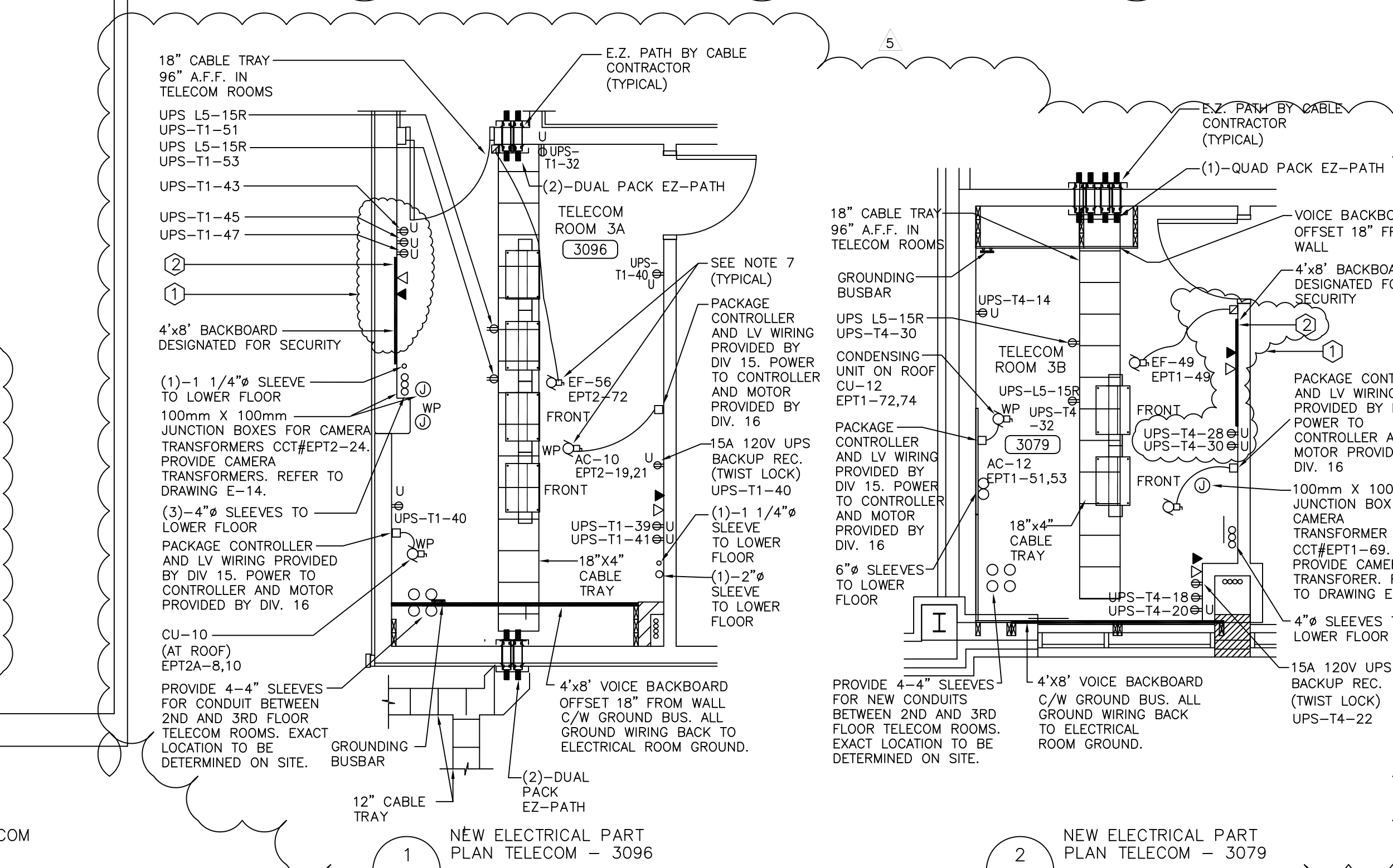
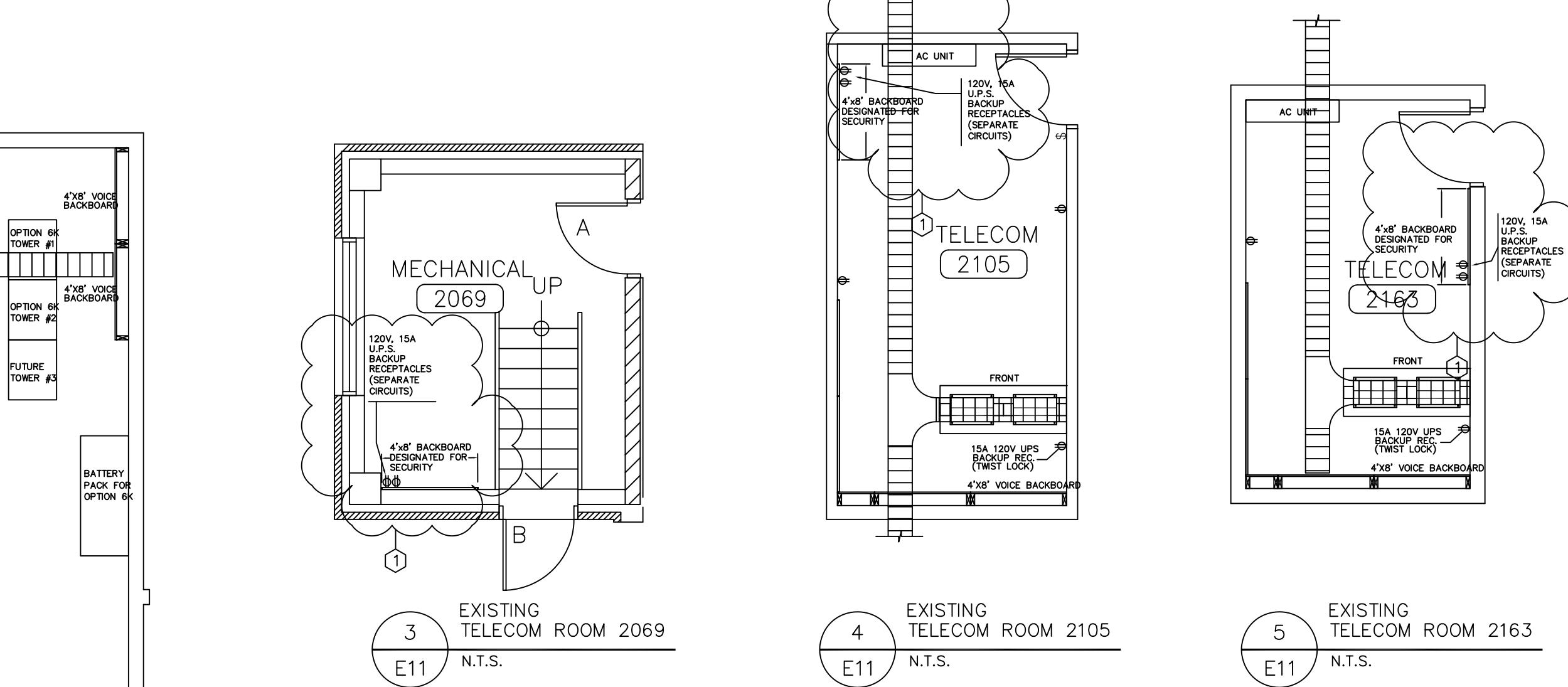
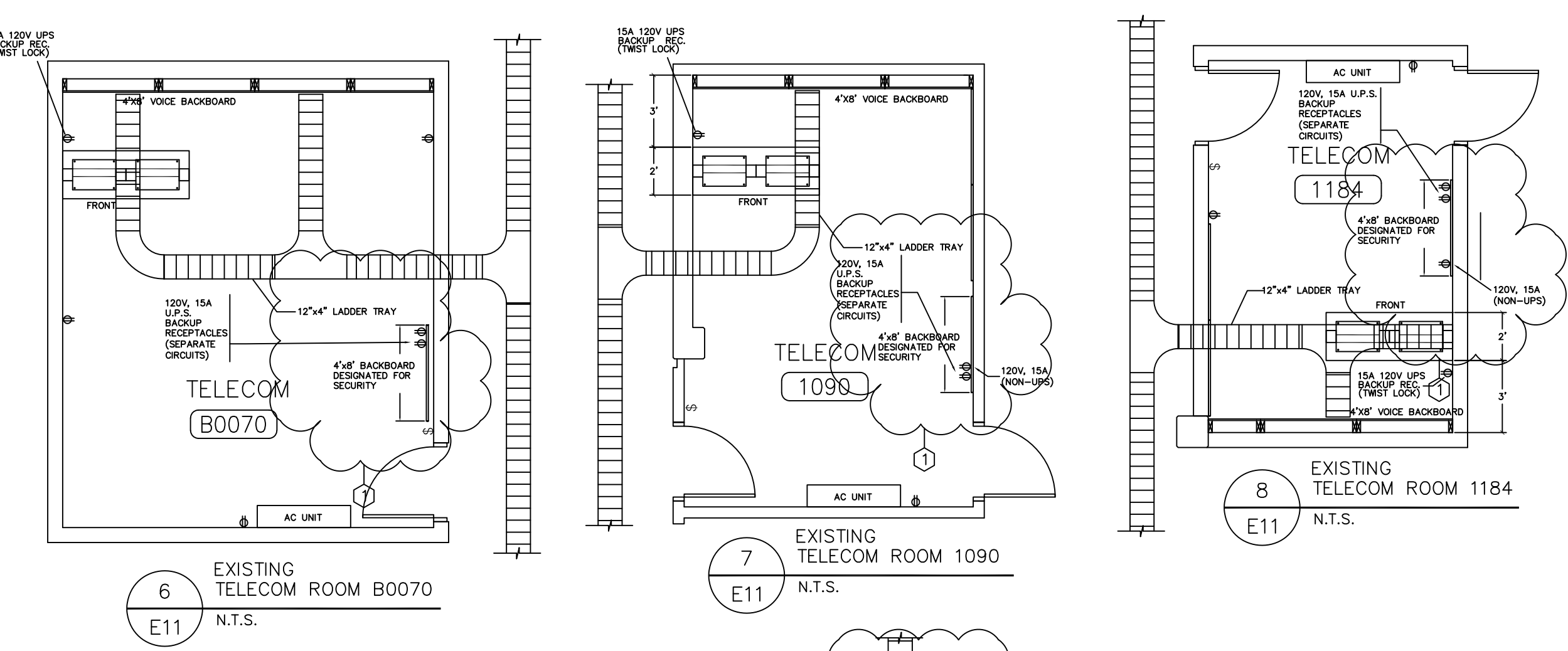
(SEE FLOOR PLANS FOR DEVICE LOCATIONS)

SECURITY SYMBOL / WIRING LEGEND							
SYMBOL	DESCRIPTION	BACK BOX SIZES (BY ELECTRICAL CONTRACTOR)	WIRING TYPE	WIRING REQUIREMENTS	BUILDING CABLE #	PROVIDE CABLE #	COMMENTS
	CARD READER	DOUBLE GANG MASONRY (4x4x4)	①	6C 22GA SHIELDED FT4 CABLE	9942	6706	CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	ELECTRIC STRIKE & MAGNETIC DOOR CONTACT(S)	CONSULT DOOR FRAME SUPPLIER	②	1x12 18GA FT4 CABLE AND 1x12 22GA FT4 CABLE	9740 (18GA) 8444 (22GA)	9182 (18GA) 9224 (22GA)	CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	MAGNETIC DOOR CONTACT(S)	CONSULT DOOR FRAME SUPPLIER	③	4C 22GA FT4 CABLE	8444	9224	-
	REQUEST TO EXIT PUSH BUTTON	SINGLE GANG (2x4)	④	4C 22GA FT4 CABLE	8444	9224	-
	REQUEST TO EXIT MOTION DETECTOR	NONE (CONDUIT FLUSH WITH WALL)	⑤	4C 22GA FT4 CABLE	8444	9224	CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	INTERCOM CALL STATION	SINGLE GANG (2x4)	⑥	2C TWISTED PAIR 18GA SHIELDED FT6 CABLE	82760 or 9771	92226	ALL SHIELDS CONNECTED AT A COMMON POINT TO EARTH GND
	PA SPEAKER	STANDARD ELECTRICAL BOXES AT CONDUIT END (AS REQ'D)	⑦	2C TWISTED PAIR 18GA SHIELDED FT6 CABLE	82760	992234	GROUND SHIELD AT AMP. OTHER END FLOATING. CABLING SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR
	PA VOLUME CONTROL	SINGLE GANG (2x4)	⑧	2C TWISTED PAIR 18GA SHIELDED FT6 CABLE	82760	992234	CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	PAN / TILT / ZOOM CCTV CAMERA	DOUBLE GANG (4x4)	⑩	1xRGU COAX 1x12 18GA CABLE	82120 (RGU) 5916A (RGU) 8740 (18GA) 9182 (18GA)		CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	WANDAL PROOF CORNER MOUNTING ONLY FOR CCTV CAMERA	NONE (CONDUIT FLUSH WITH WALL)	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR WALL MOUNTED CONCEALED CCTV CAMERA	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	DOUBLE GANG BOX FOR WALL MOUNTED CAMERA / MICROPHONE ASSEMBLY	DOUBLE GANG (4"x4"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR CEILING CONCEALED CAMERA MTD. ABOVE CEILING GRILL (WANDAL PROOF)	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR CCTV COAX & CAMERA POWER OUTLET	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR CEILING MOUNTED MICROPHONE	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR MICROPHONE RECESSED INTO WALL @200mm A.F.F.	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR MICROPHONE MOUNTED UNDER TABLE	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	SINGLE GANG BOX FOR MICROPHONE OUTLET	SINGLE GANG (2"x4")	⑥	3/4" CONDUIT & PULL STRING ONLY	-	-	-
	120V U.P.S. POWER DUPLEX OUTLET	-	-	BY ELECTRICAL CONTRACTOR	-	-	-
	JUNCTION BOX	-	-	BY ELECTRICAL CONTRACTOR	-	-	-
	REMOTE BUTTON	-	⑤	4C 22GA FT4 CABLE	8444	9224	CABLING INSTALLED BY ELECTRICAL CONTRACTOR
	ALARM BUZZER	SINGLE GANG (2"x4")	③	2C 18GGA FT4 CABLE	9740	9182	CABLING INSTALLED BY ELECTRICAL CONTRACTOR



OTHER / INTERCONNECT WIRING LEGEND				
WIRING TYPE	WIRING REQUIREMENTS	BELDEN# CABLE #	PROVOR# CABLE #	COMMENTS
①	6C 22GA SHIELDED FT4 CABLE	9942	6706	
③	2C 18GA FT4 CABLE	9740	9182	
⑩	2PAIR 24GA SHIELDED FT4 CABLE	8132 OR 9842	-	N1000-IV INTERCONNECT (RS-485)
⑭	-	-	-	-
⑮	CAT.5 UTP CABLE	1553A	24104L5	LAN CABLE
⑰	RGU COAX	82120	5916A	-
⑳	-	-	-	-

- GENERAL NOTES:
- CCTV CAMERA CONFIGURATIONS AND LENS TYPES SUPPLIED AND INSTALLED PER CCTV CAMERAS SCHEDULE.
 - C1, C2, C3 & C4 ARE POLE MOUNTED PAN/TILT/ZOOM CAMERAS IN ENVIRONMENTAL DOME HOUSINGS (EXISTING).
 - ALL WIRING FOR FIELD DEVICES AND COMMUNICATION LINKS IS IN 19mm CONDUIT UNLESS STATED OTHERWISE.
 - ALL 120V POWER FOR SECURITY EQUIPMENT IS SUPPLIED FROM THE BUILDING U.P.S. SYSTEM.
 - PROVIDE ALL REQUIRED CONDUIT AS PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE GROUNDING AND BONDING IN ALL TELECOM ROOMS AS PER ONTARIO ELECTRICAL SAFETY CODE.
 - REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR FURTHER ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.
 - ALL NOTATIONS SHOWN IN BOLD REPRESENT NEW WORK PROVIDED BY ELECTRICAL CONTRACTOR IN THIS CONTRACT.
 - ALL CABLEING TO BE FIBRE AND INSTALLED BY ELECTRICAL.
 - EACH SPEAKER TO BE HOME RUN TO TELECOM ROOM.



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KEY TO DETAIL LOCATION		
No.	DETAIL	NUMBER
1	ISSUED FOR 90% SUBMISSION	JAN. 7, 2008
2	ISSUED FOR FINAL REVIEW	MAR. 6, 2008
3	REVISED FOR BUILDING PERMIT	MAR. 24, 2008
4	ISSUED FOR TENDER	APR. 21, 2008
5	ISSUED FOR ADDENDUM #E-1	MAY 05, 2008

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NO.	REVISION/ISSUE	DATE
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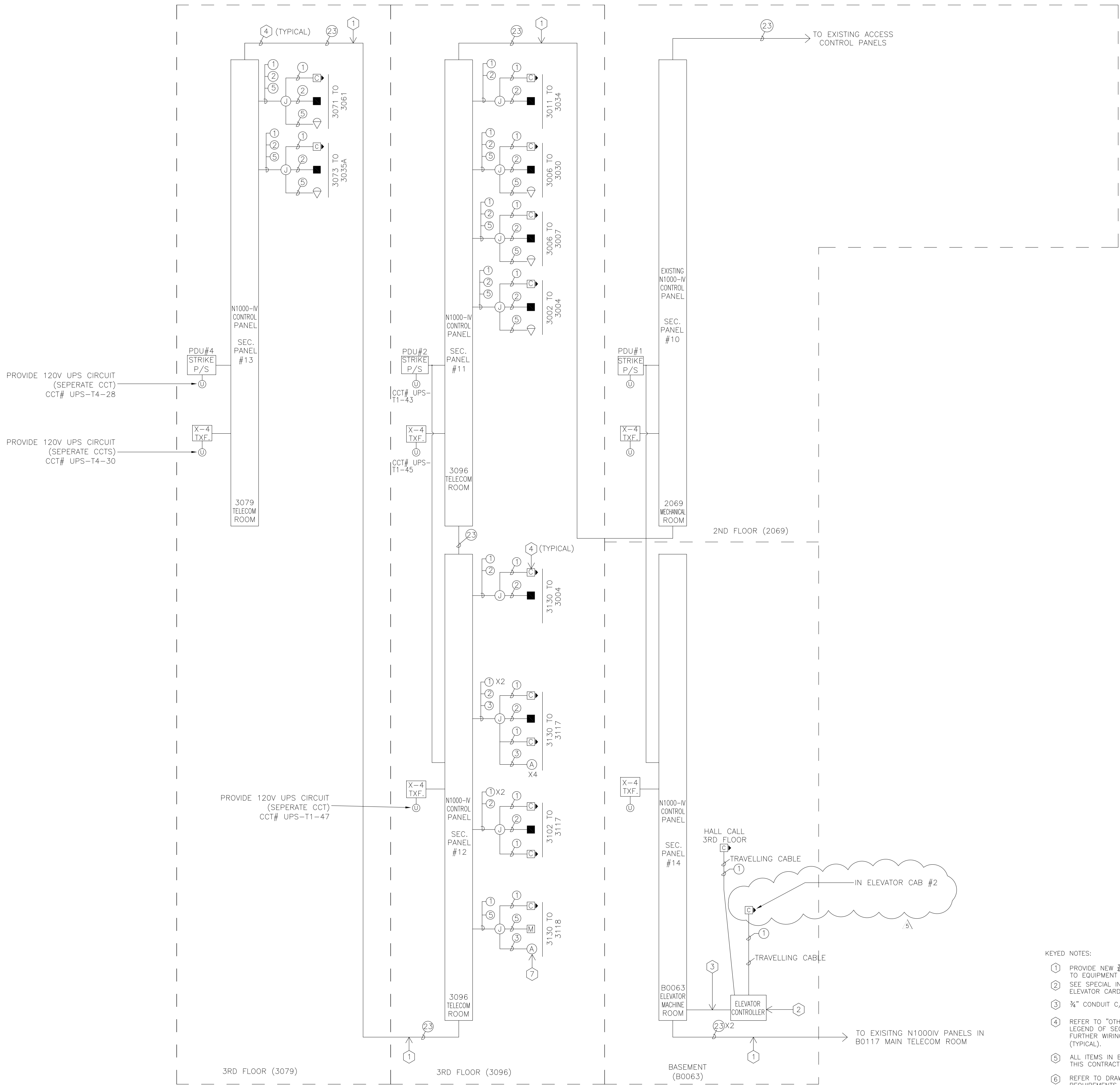
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DRAWN BY: JS
CHECKED BY: JC
DATE: APRIL 21, 2008
PROJECT TITLE:
PEEL POLICE REGIONAL FACILITY
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE
DRAWING TITLE:
SECURITY, CARD ACCESS, CCTV, PA & INTERCOM EQUIPMENT ROOM LAYOUTS AND DIAGRAMS
SCALE: AS SHOWN
PROJECT NO. **06060** DWG. NO. **E-11**



F
E
D
C
B
A



- KEYED NOTES:
- ① PROVIDE NEW 3/4" CONDUIT AND MAKE FINAL TERMINATIONS TO EQUIPMENT AS SHOWN.
 - ② SEE SPECIAL INSTRUCTIONS IN SPECIFICATIONS FOR ELEVATOR CARD READER TRADE RESPONSIBILITIES.
 - ③ 3/4" CONDUIT C/W ① X2 CABLING ③ X4 CABLING
 - ④ REFER TO "OTHER/INTERCONNECT WIRING LEGEND" AND LEGEND OF SECURITY SYMBOLS ON DRAWING E-11 FOR FURTHER WIRING AND SPECIFICATION REQUIREMENTS
 - ⑤ ALL ITEMS IN BOLD SHALL BE NEW WORK PROVIDED UNDER THIS CONTRACT.
 - ⑥ REFER TO DRAWING E-15 FOR FURTHER INFORMATION AND REQUIREMENTS.
 - ⑦ ACTIVATE SAME ALARM BUZZER FOR DOOR 3130 TO 3117.

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No.	DRAWING NUMBER

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Δ	ISSUED FOR ADDENDUM #E-3	MAY 22, 2008

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DATE: APRIL 21, 2008

PROJECT TITLE:

**PEEL POLICE
REGIONAL FACILITY**

180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:

**CARD ACCESS SYSTEM
RISER DIAGRAM**

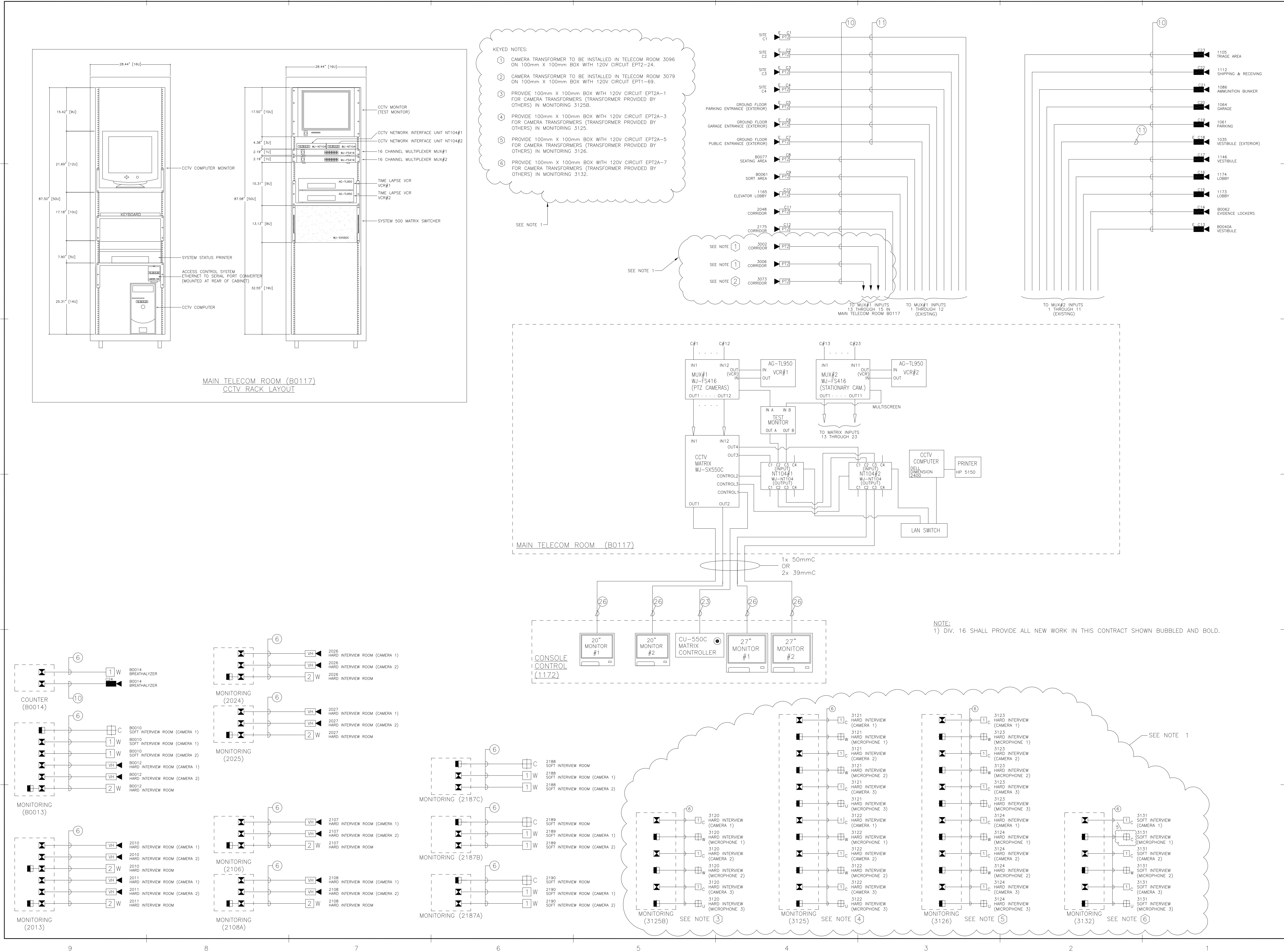
SCALE: N.T.S.

PROJECT NO.

06060

DWG. NO.

E-13



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DRAWINGS SHOULD NOT BE SCALED.		
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4	ISSUED FOR TENDER	APR. 21, 2008
5	ISSUED FOR ADDENDUM #E-1	MAY 05, 2008

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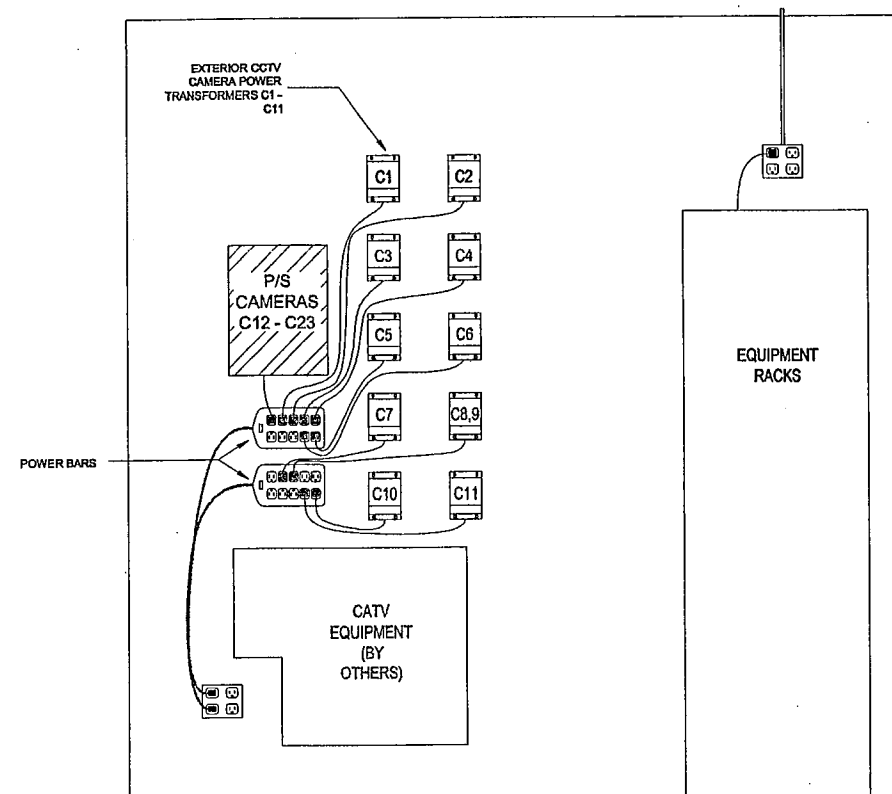
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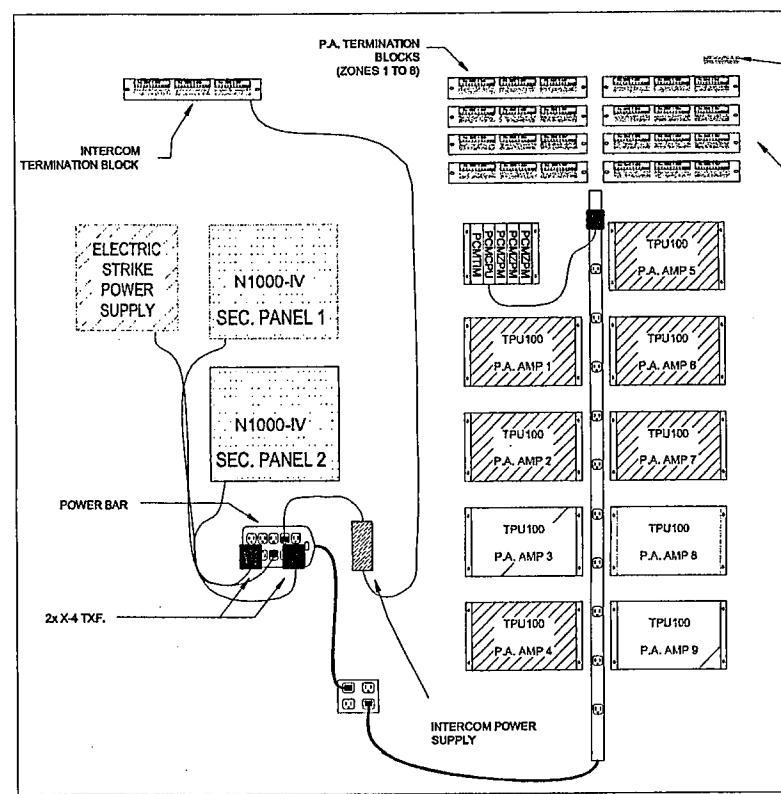
**PEEL POLICE
REGIONAL FACILITY**
180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:
**CCTV SYSTEM AND
MONITORING ROOMS
RISER DIAGRAMS**

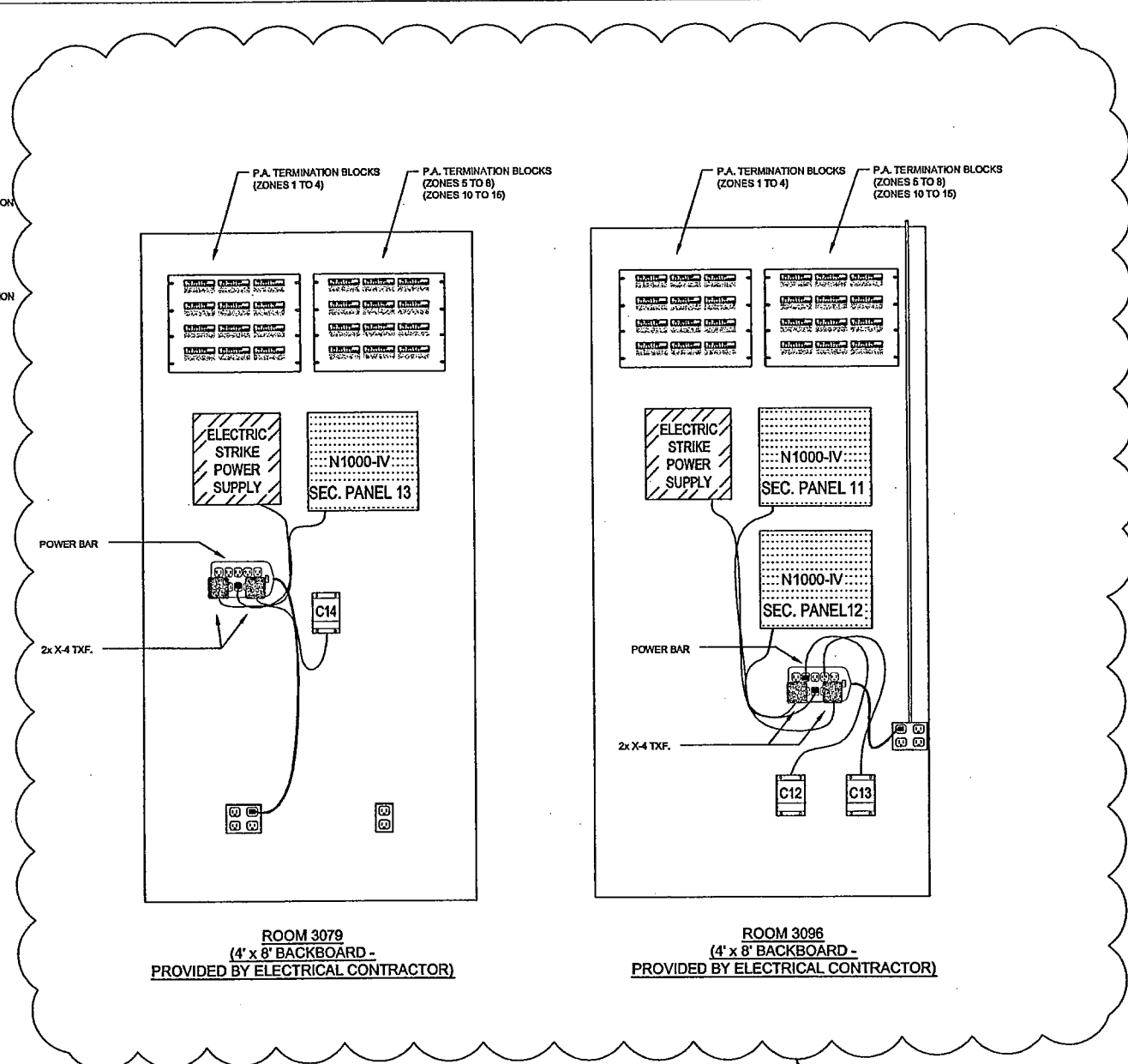
SCALE: N.T.S.
PROJECT NO. **06060**
DWG. NO. **E-14**



ROOM B0117
(8' x 8' BACKBOARD)
CCTV & CATV

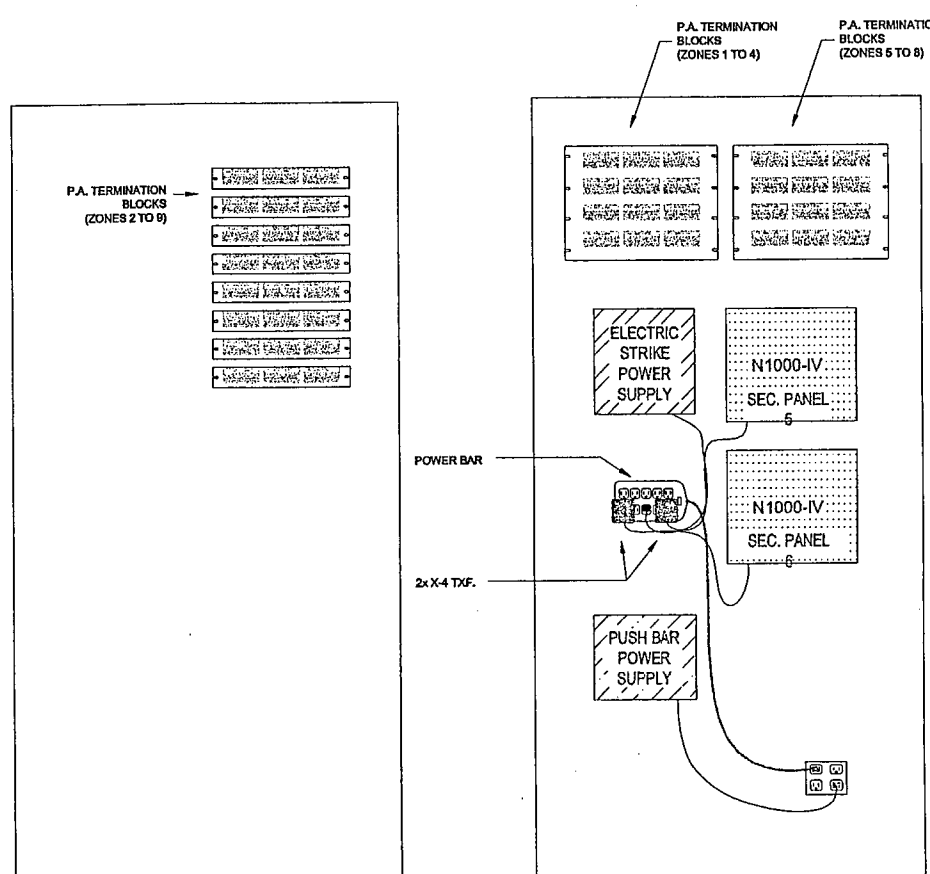


ROOM B0117
(8' x 8' BACKBOARD)
P.A. & INTERCOM

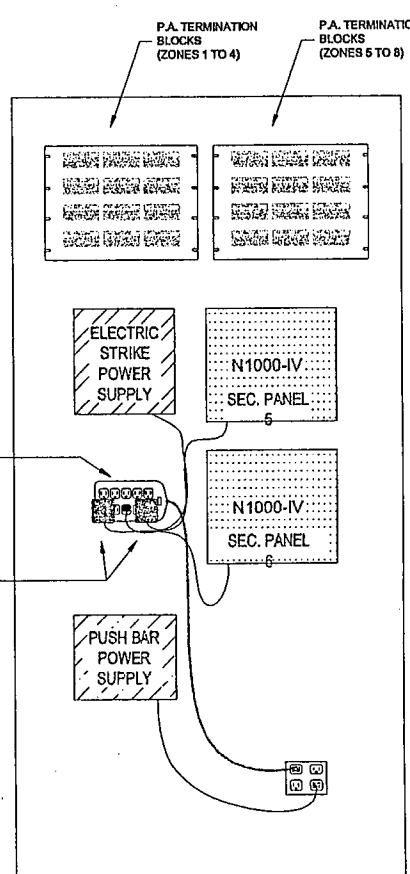


ROOM 3079
(4' x 8' BACKBOARD -
PROVIDED BY ELECTRICAL CONTRACTOR)

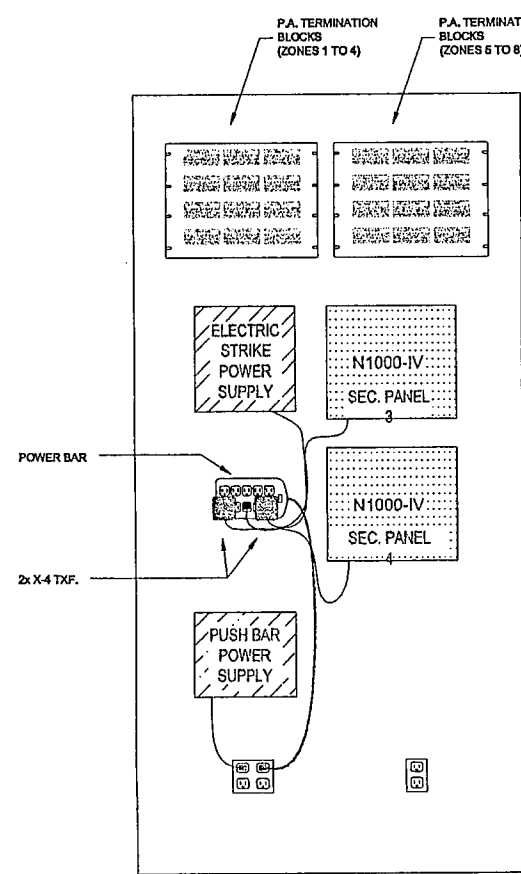
ROOM 3096
(4' x 8' BACKBOARD -
PROVIDED BY ELECTRICAL CONTRACTOR)



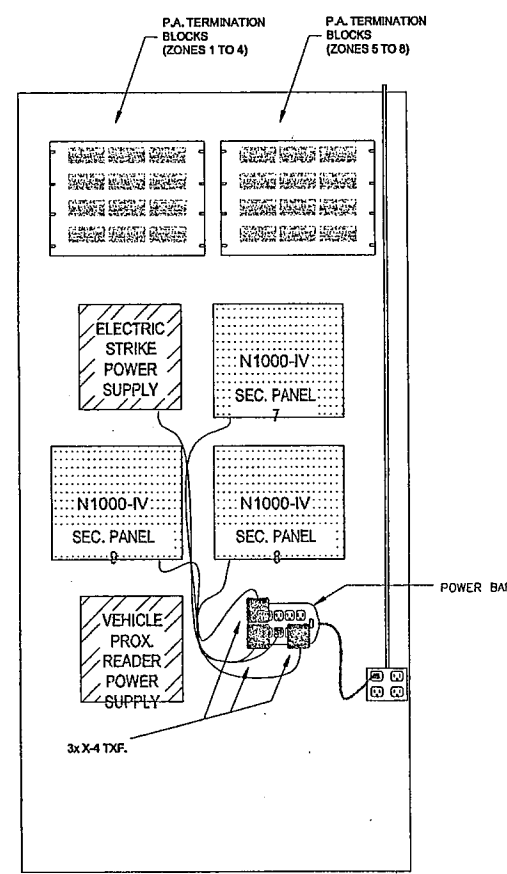
ROOM B0070
(4' x 8' BACKBOARD)



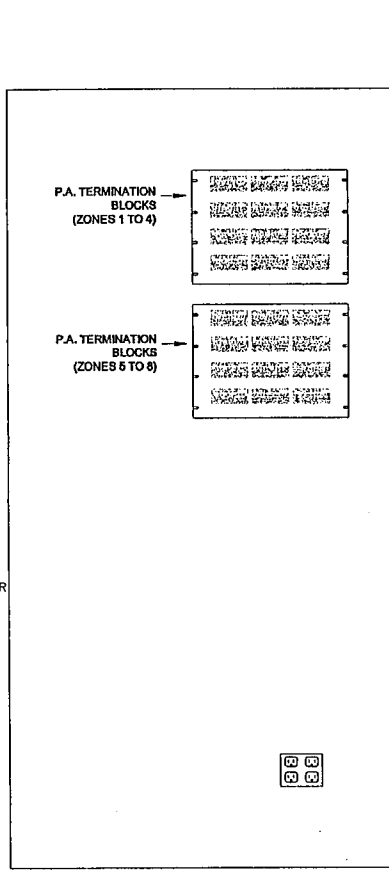
ROOM 1090
(4' x 8' BACKBOARD)



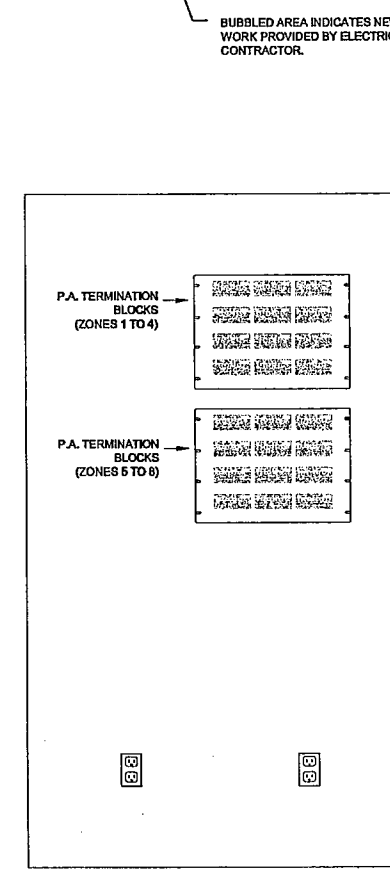
ROOM 1184
(4' x 8' BACKBOARD)



ROOM 2089
(4' x 8' BACKBOARD)



ROOM 2105
(4' x 8' BACKBOARD)



ROOM 2163
(4' x 8' BACKBOARD)

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180 DERRY ROAD EAST
MISSISSAUGA, ONTARIO
PEEL REGIONAL POLICE

DRAWING TITLE:
SECURITY, P.A. INTERCOM
& CCTV BACKBOARD
LAYOUTS

SCALE: N.T.S.
PROJECT NO. 06060
DWG. NO. E-15