

1 BUILDING 3 - SINGLE LINE DIAGRAM MODIFICATION
E-01 N.T.S.

REMARKS	K.W.	BRKR AMPS	CCT NO.	NEUTRAL	CCT NO.	BRKR AMPS	K.W.	REMARKS
LIGHTING		15A	1		2	15A		LIGHTING
LIGHTING		15A	3		4	15A		LIGHTING
LIGHTING		15A	5		6	15A		LIGHTING
LIGHTING		15A	7		8	15A		LIGHTING
LIGHTING		15A	9		10	15A		LIGHTING
LIGHTING		15A	11		12	15A		LIGHTING
EXTERIOR LIGHTING		15A	13		14	15A		CABINET HEATER #1
SHREDDER		15A	15		16	15A		CABINET HEATER #2
PHOTOCOPIER		20A	17		18	15A		EXHAUST FAN EF-3
SPARE		20A	19		20	15A		MECHANICAL BY-PASS BOXES
SPARE		20A	21		22	15A		SPARE
SPARE		20A	23		24	15A		ELEC. RM RECEP.
SPARE		20A	25		26			
AC-1	0.5	15A 2P	27		28			
ACU-1	5.2	40A 2P	31		30			
MAU-1 (2kW)	2	15A 2P	33		32			
			35		34			
			37		36			
			39		38			
			41		40			
					42			

MAIN BRKR. RATING: NIL
BUS RATING: 225 AMP.

PANEL DESCRIPTION: PANEL 'A'
PANEL RATING: 225A, 208/120V, 3PH, 4W.

2 BUILDING 2 - EXISING PANEL 'A' (NOTE 2)
E-01 N.T.S.

REMARKS	K.W.	BRKR AMPS	CCT NO.	NEUTRAL	CCT NO.	BRKR AMPS	K.W.	REMARKS
ACU-1	22.7	70A 3P	1		2	70A 3P	22.7	ACU-2
			3		4			
			5		6			
BRANCH CONTROLLERS /INDOOR UNITS	3	30A 2P	7		8	20A 2P	0.8	ERV-1
			9		10			
POWER MODULES AND ADDAPTER	0.2	15A	11		12	15A	0.54	PUMP P3 AND P4 3CP-P3&4
MD-1 AND MD-2 3CP-MD1&2	0.2	15A	13		14	15A	1.3	GF-1
PUMP P1 AND P2 3CP-P1&2	0.3	15A 2P	15		16	15A		SPARE
SPARE	-	15A 2P	19		18	15A		SPARE
			21		20	15A		SPARE
SPARE	-	15A	23		22	15A		SPARE
					24	15A		SPARE

MAIN BRKR. RATING: NIL
BUS RATING: 225 AMP.

PANEL DESCRIPTION: PANEL '3NPP3'
PANEL RATING: 200A, 120/208V, 3PH, 4W.

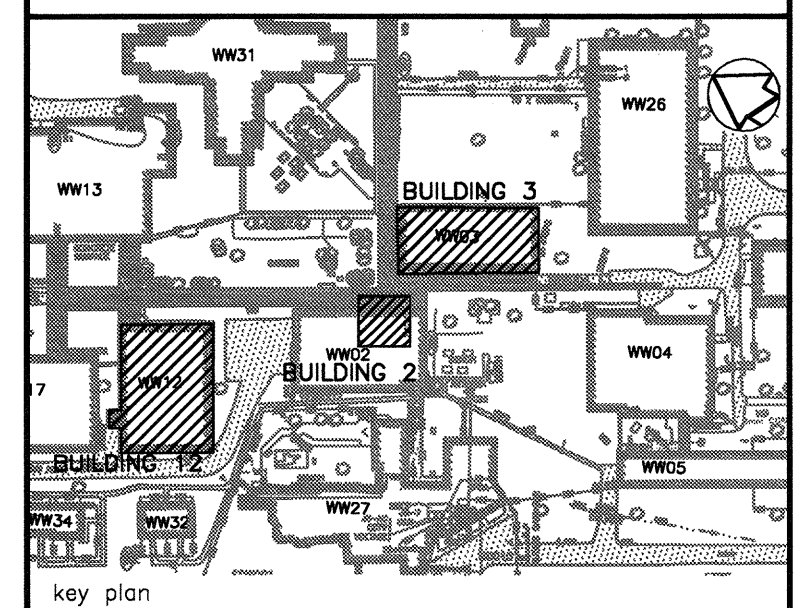
3 BUILDING 3 - NEW PANEL '3NPP3'
E-01 N.T.S.

NOTES:

- REPLACE EXISTING 40A, 3P CIRCUIT BREAKER IN SLOT 20, 22, 24 OF EXISTING PANEL 3NDP2 WITH 60A, 3P CIRCUIT BREAKER TO FEED NEW PANEL 3NPP3 VIA NEW 75KVA TRANSFORMER 3NPT3.
- PROVIDE NEW CIRCUIT BREAKERS ON EXISTING PANEL 'A' IN BUILDING 2 AS SHOWN IN THE PANEL SCHEDULE.

LEGEND

- LIGHT SOLID LINES INDICATE EXISTING EQUIPMENT AND FEEDERS TO REMAIN
- DARK SOLID LINES INDICATE NEW EQUIPMENT AND FEEDERS
- * DENOTES LOOP CONNECTED CIRCUIT BREAKERS WITH KIRK KEY INTERLOCK.
- (S) ITEM SPECIFIED BY OTHER DIVISION
- ////// DEMOLITION



04	ISSUED FOR TENDER	2013/10/29
03	ISSUED FOR TENDER	2011/10/14
02	SUBMITTED FOR 99% DESIGN	2011/07/18
01	SUBMITTED FOR 66% DESIGN	2011/04/20
revision		date

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project title
titre du projet
WARKWORTH Ontario
MEDIUM SECURITY INSTITUTION
UNDERGROUND DUCT REPLACEMENT

drawing title
titre du dessin
BUILDING 2 / 3
ELECTRICAL SINGLE LINE DIAGRAM
AND PANEL SCHEDULES

drawn by
dessiné par
L. ZHANG

designed by
conçu par
K. LIANG

approved by
approuvé par
K. LIANG

bid
offre
S. BELL project manager
administrateur
de projets

project date
date du projet
2013-10-29

project no.
no. du projet
R.033225.001

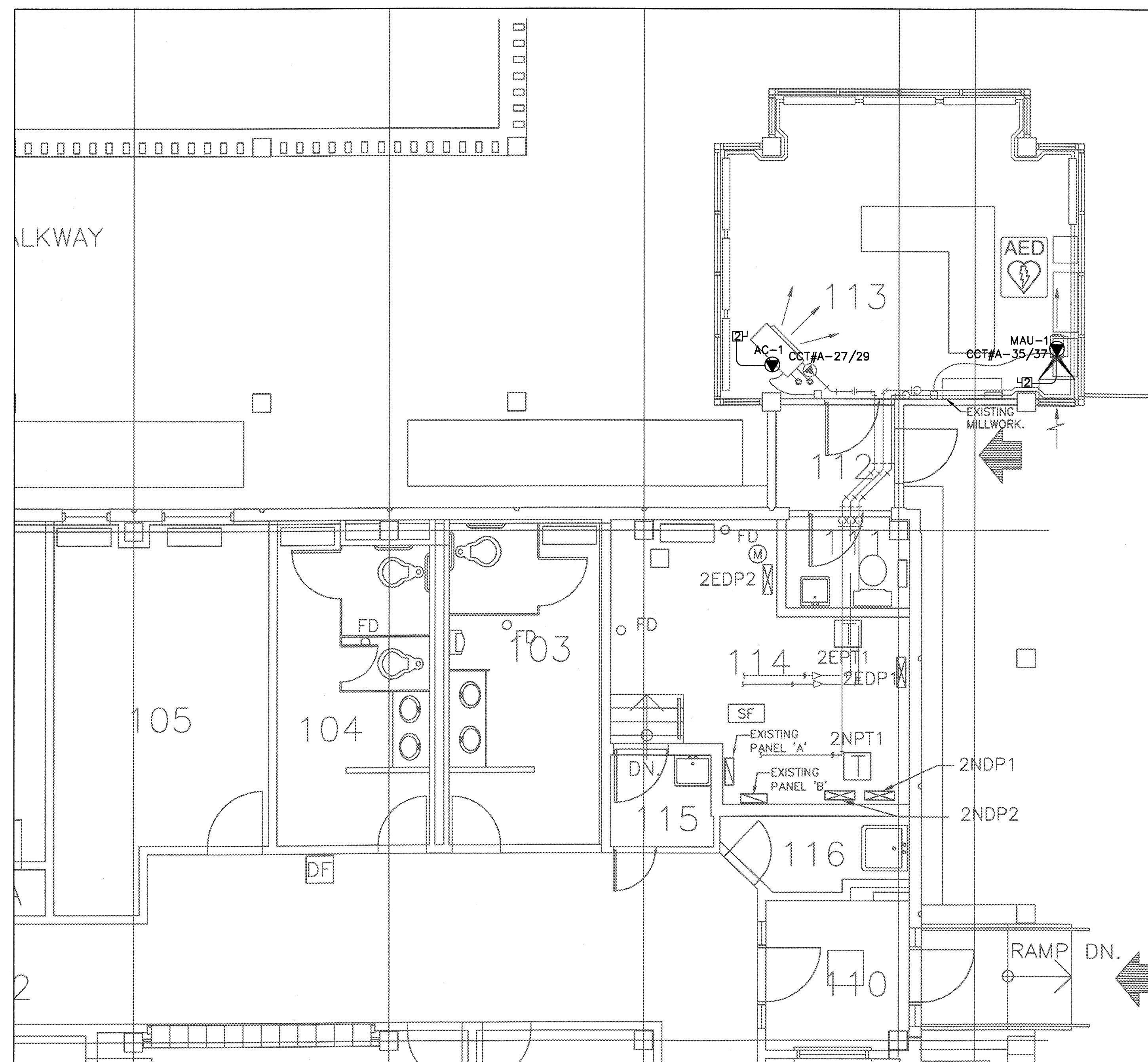
drawing no.
dessiné no.
WDR-WW02/03-E-01

LEGEND:

- 2 POLE DISCONNECT SWITCH
 2WEATHER PROOF
 NEW
 EXISTING

NOTES:

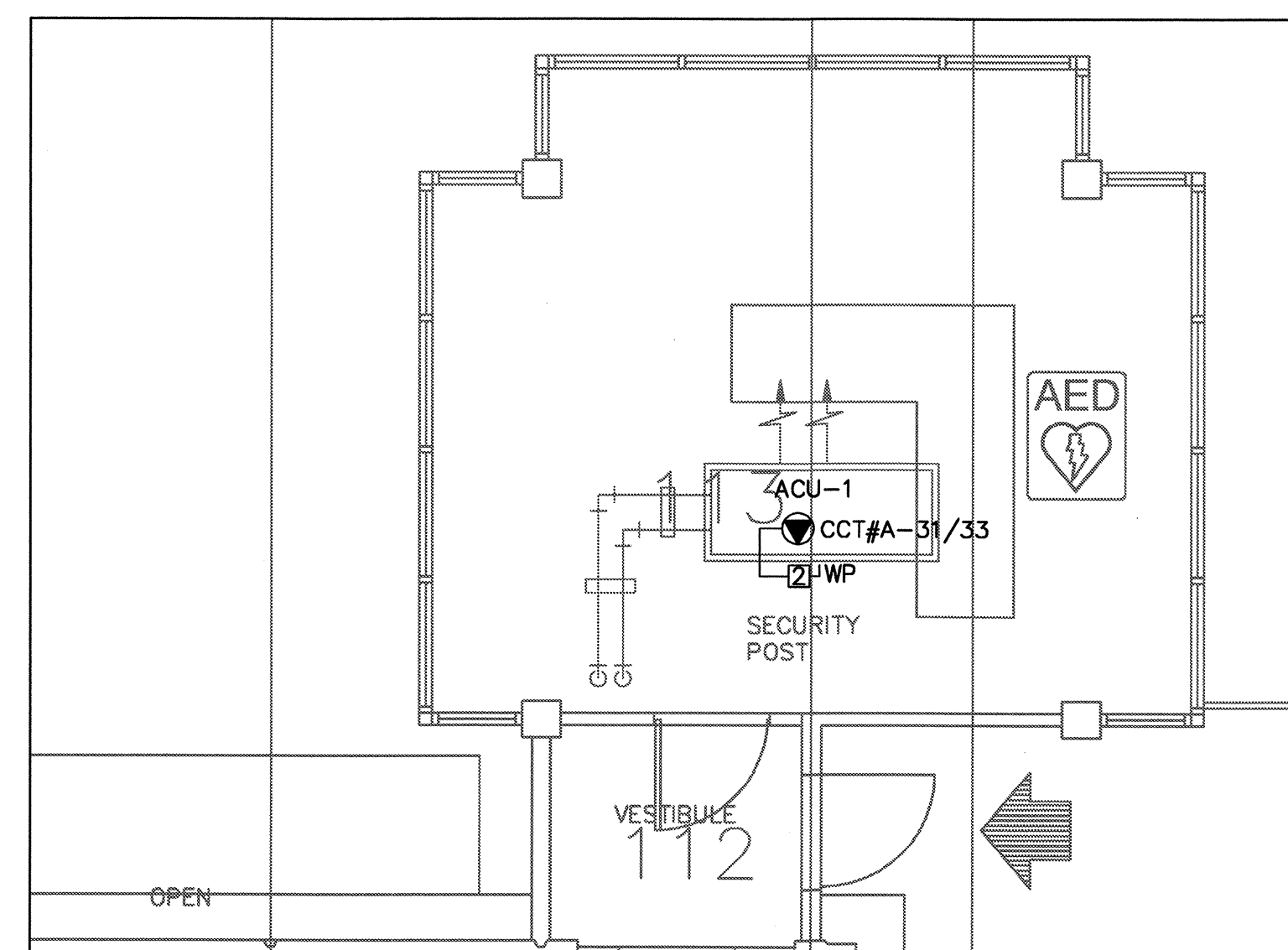
1. PROVIDE ALL WIRING IN RGS CONDUITS FROM EXISTING PANEL 'A' IN MECHANICAL ROOM (ROOM 114) TO MECHANICAL LOADS IN SECURITY POST (ROOM 113) OR ON THE ROOF AS SHOWN.
2. CONDUIT ROUTING TO FOLLOW EXISTING CONDUITS WHERE POSSIBLE. PROVIDE WALL AND ROOF PENETRATIONS AS REQUIRED AND RESTORE ITS ORIGINAL FIRE RATING WHERE APPLICABLE BY PROPER FIRE STOP SEALS. PROVIDE WEATHER-PROOF FLASHING FOR ALL CONDUIT ROOF PENETRATIONS.
3. PROVIDE LOCAL DISCONNECT SWITCHES TO BE MOUNTED AT HIGH ELEVATION ADJACENT TO THE MECHANICAL EQUIPMENT IT CONTROLS AS FOLLOWS:
 -240V, 2P, 30A FOR AC-1
 -240V, 2P, 30A FOR MAU-1
 -240V, 2P, 60A, NEMA 3R FOR ACU-1
4. REFER TO MECHANICAL DRAWINGS WDR-WW02-WW03-G-01~04 FOR MECHANICAL DEMOLITION REQUIREMENTS. CONTRACTOR TO DEMOLISH ALL FEEDER WIRING AND CONDUITS THAT ARE MADE OBSOLETE BY THE MECHANICAL EQUIPMENT REMOVAL AND LEAVE SOURCE SUPPLY BREAKERS AS SPARE UNLESS OTHERWISE INDICATED.



1
E-01 1:50 BUILDING 2 - FIRST FLOOR - ELECTRICAL PLAN

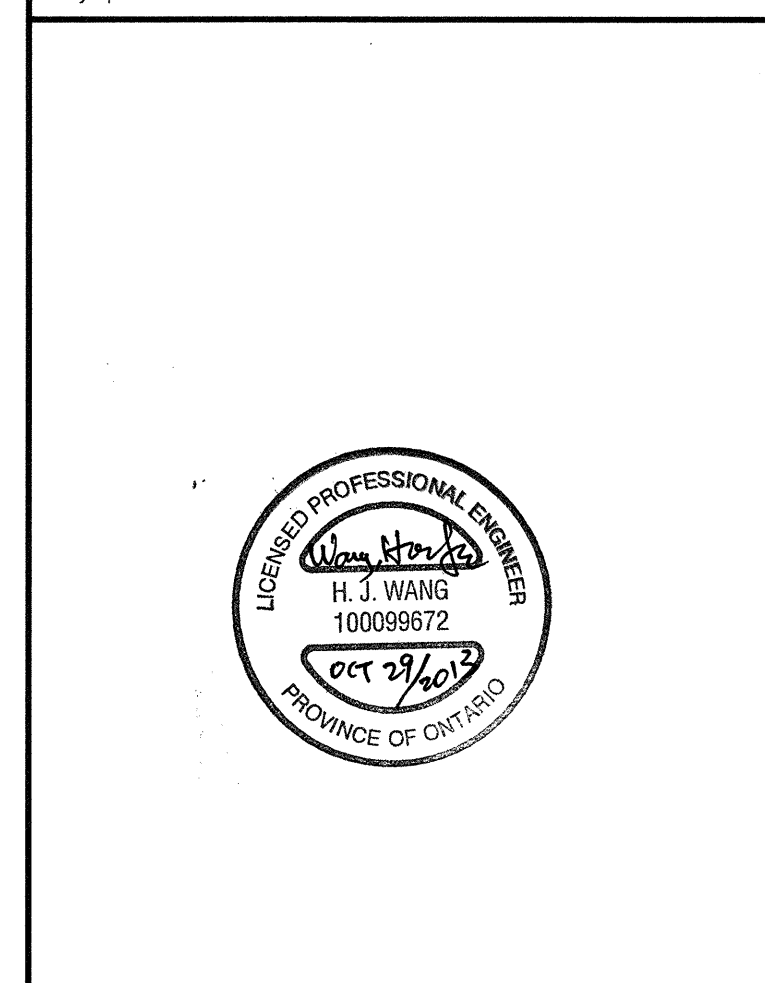
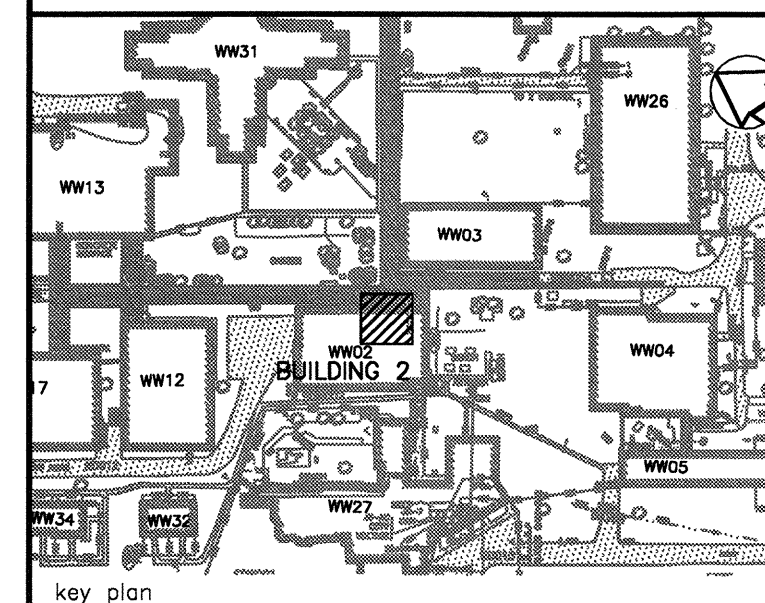
FIRST FLOOR ROOM INDEX

- 101 VESTIBULE
- 102 CORRIDOR
- 103 MALE WASHROOM
- 104 FEMALE WASHROOM
- 105 OFFICE STORAGE
- 106 STAFF TRAINING
- 106A CLOSET
- 107 TRAINING ROOM
- 108 MECHANICAL/ELECTRICAL ROOM
- 109 UNION OFFICE
- 110 VESTIBULE
- 111 WASHROOM
- 112 FOYER
- 113 SECURITY POST
- 114 MECHANICAL/LAN ROOM
- 115 JANITOR ROOM
- 116 JANITOR ROOM
- 117 CORRIDOR
- 118 SECURITY SUPERVISOR'S OFFICE
- 119 SECURITY CLERK'S OFFICE
- 120 CPEC ROOM
- 121 IPSO ROOM
- 122 SECURITY ANALYSIS ROOM
- 123 CONTRABAND STORAGE
- 124 STORAGE ROOM
- 125 INTERVIEW ROOM
- 126 STAFF/TRAINING OFFICE
- 127 ADMINISTRATION AREA
- 128 STORAGE ROOM
- 129 CHIEF ADMIN. OFFICE
- 130 PRIVACY CO-ORDIN. OFFICE
- 131 RECORDS ROOM
- 132 LOUNGE
- 133 KITCHENETTE
- 134 CANTEEN
- 135 CORRIDOR
- 136 FEMALE LOCKERS
- 137 FEMALE SHOWER/WASHROOM
- 138 MALE LOCKERS
- 139 MALE SHOWER/WASHROOM



2
E-01 1:50 BUILDING 2 - PARTIAL ROOF - ELECTRICAL PLAN

Public Works and
Government Services Canada
Travaux publics et
Services gouvernementaux Canada



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MEDIUM SECURITY INSTITUTION
UNDERGROUND DUCT REPLACEMENT

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BUILDING 2
FIRST FLOOR AND PARTIAL ROOF
ELECTRICAL PLAN

drawn by
dessiné par L. ZHANG

designed by
conçu par K. LIANG

approved by
approuvé par K. LIANG

bid offre S. BELL project manager
administrateur de projets

project date
date du projet 2013-10-29

project no.
no. du projet R.033225.001

drawing no.
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