

NOTE: CIRCUITS NUMBER C-3 AND C-5 ARE NIGHTLIGHT CIRCUITS. HARD WIRE CIRCUITS TO PANELBOARD BREAKERS.

MAIN FLOOR PLAN - LIGHTING PLAN

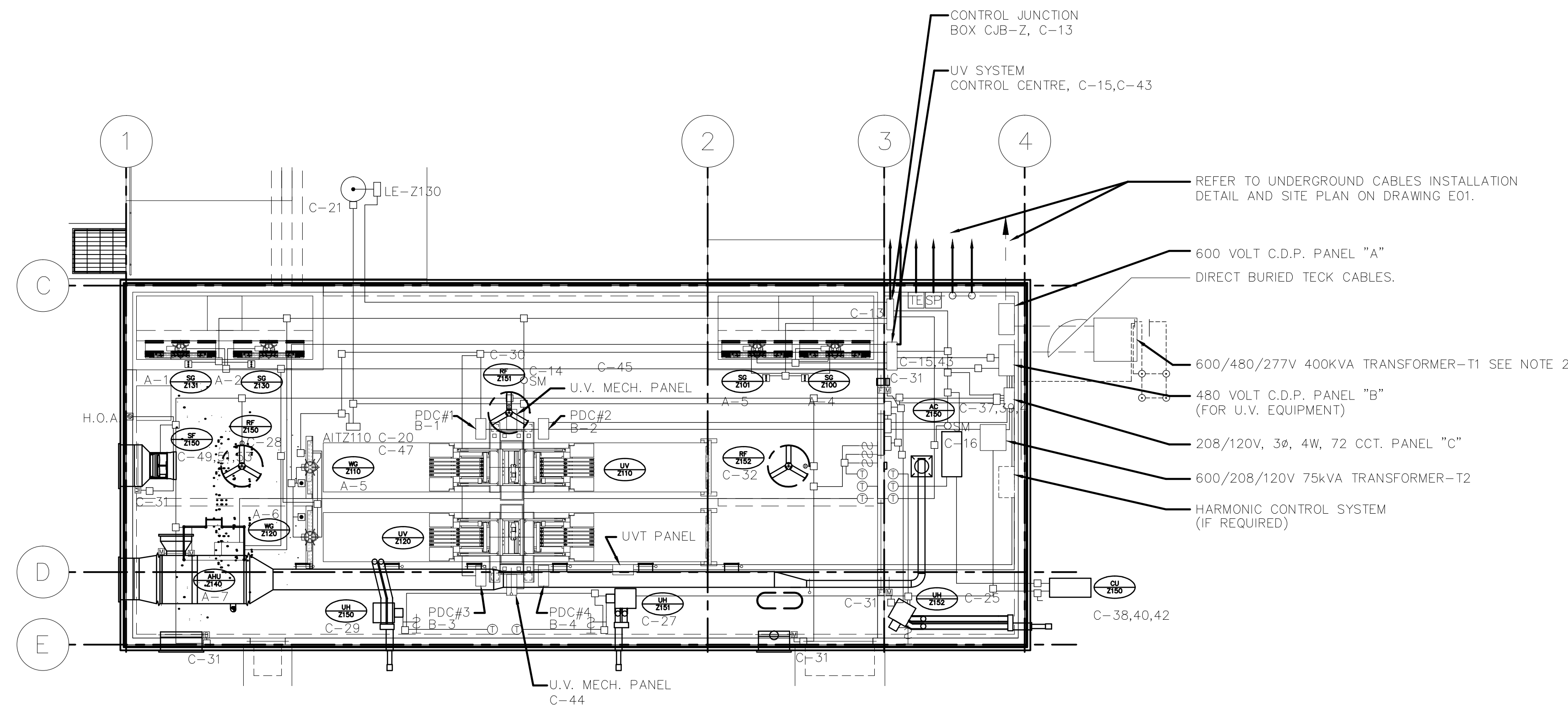
SCALE: 1 : 100

CONSTRUCTION NOTES

1. INSTALL RED BREAKER FOR FIRE ALARM BOOSTER POWER SUPPLY, LOCKABLE IN THE ON POSITION. AFFIX LABEL STATING "THE FIRE ALARM SYSTEM IS SUPPLIED FROM MORE THAN ONE PRIMARY POWER SOURCE."

- NOTES:**
- ALL LIGHTING, POWER, CONTROL AND INSTRUMENTATION WIRING SHALL BE DONE WITH WIRES IN RIGID ALUMINUM CONDUITS, USE FLEXIBLE CONDUITS FOR MOTORS, LUMINAIRES, AND INSTRUMENT CONNECTIONS. TECK CABLES SHALL BE USED FOR INCOMING FEEDER, IN THE EXISTING SEWPCC BUILDING AND UNDERGROUND UP TO A JUNCTION BOX ON THE EXTERIOR WALL OF THE NEW EFFLUENT DISINFECTATION FACILITY, AND FOR PRIMARY AND SECONDARY FEEDERS OF THE 400KVA TRANSFORMER.
 - TRANSFORMER IS TO BE LOCATED 2 METERS FROM THE EAST WALL OF THE FACILITY ON THE NORTH-EAST CORNER. FOR UNDERGROUND TECK CABLE INSTALLATION, REFER TO DETAIL - ON DRAWING E01.
 - PROVIDE GREEN GROUND WIRE IN ALL BRANCH CIRCUITS SIZED PER THE C.E.C.

TYPE		MANUFACTURER	CATALOGUE NO.	VOLTAGE	LAMPS		MOUNTING	REMARKS
					NO.	TYPE		
A	HOLOPHANE "BANTAM 2000" SERIES		BA-15DHP-12-P-A-F1	120 VOLT	1	150W HIGH PRESSURE SODIUM	PENDANT MOUNTED	FOR PROCESS AREA CIRCUIT C-5, HARDWIRED NIGHT LIGHTS
B	HOLOPHANE "EG" SERIES RECESSED TROFFERS		EG-R-24-X-S-A12-043-EP-1-1	120 VOLT	3	FOUR FOOT 32W T8'S	RECESSED IN ACOUSTIC TILE MOUNTED ON PURLINS	FOR ELECTRICAL ROOM CIRCUIT C-3, HARDWIRED NIGHT LIGHTS
C	HOLOPHANE "WALLPACK 2" SERIES		WL2K-100HP-12-BK-F1-PS-	120 VOLT	1	100W HIGH PRESSURE SODIUM	EXTERIOR WALL MOUNTED	TO BE MOUNTED ABOVE DOORS IN LOCATIONS SHOWN. FIXTURES SHALL BE COMPLETE WITH INDIVIDUAL PHOTOCELL
D	LIGHTGUARD		Q-75-2H	120 VOLT	2	75 WATTS TOTAL	WALL MOUNT	MANUFACTURER SUPPLIED MOUNTING HARDWARE.
E	LITHONIA LIGHTING "QUANTUM" SERIES EXIT LIGHTS		LQM-S-W-3-R-120-ELN-CSA	120 VOLT	-	L.E.D.	WALL MOUNTING	TO BE MOUNTED ABOVE DOORS



MAIN FLOOR PLAN - POWER DISTRIBUTION

SCALE: 1 : 100

DESIGNATION	WATTAGE	QTY	CIR NO	BKR	A	B	C	BKR	CIR NO	QTY	WATTAGE	DESIGNATION
	Ø A Ø B Ø C										Ø A Ø B Ø C	
EXTERIOR LIGHTING			1	15A	•			15A	2			EL. ROOM LIGHTING
EL. ROOM LIGHTING			3	15A	•			15A	4			PR. ROOM LIGHTING
PR. ROOM LIGHTING			5	15A	•			15A	6			PR. ROOM LIGHTING
EXIT LIGHTING			7	15A	•			15A	8			RECEPTACLES
RECEPTACLES			9	15A	•			15A	10			BPS-U1
SPARE			11	15A	•			15A	12			SPARE
CJB-Z PANEL			13	15A	•			15A	14			AE-Z147 SMOKE
LIT-110			15	15A	•			15A	16			AE-Z147A SMOKE
SPARE			17	15A	•			15A	18			LIT-130
SPARE			19	15A	•			15A	20			AIT-120
HEAT TRACE			21	15A	•			15A	22			SPARE
SPARE			23	15A	•			15A	24			SPARE
UH-Z15			25	15A	•			15A	26			SPARE
UH-Z151			27	15A	•			15A	28			RF-Z150
UH-Z15			29	15A	•			15A	30			RF-Z151
MOTORIZED DAMPERS			31	15A	•			15A	32			RF-Z152
SPARE			33	15A	•			15A	34			SPARE
SPARE			35	15A	•			15A	36			SPARE
AC-Z150			37	30A	•			30A	38			CU-Z150
AIR CONDITIONING UNIT			39	3P	•			3P	40			CONDENSING UNIT
			41		•				42			
U.V. SYS. CONTR. CEN.			43	15A	•			60A	44			U.V. MECH.SYS.PNL.#2
U.V. MECH.SYS.PNL.#1			45	60A	•			15A	46			SPARE
U.V.T. SAMPLER PANEL			47	15A	•			15A	48			SPARE
SPARE			49	15A	•			15A	50			SPARE
SF-Z150			51	3P	•			15A	52			SPARE
SUPPLY FAN			53	3P	•			15A	54			SPARE
SPARE			55	15A	•			15A	56			SPARE
SPARE			57	15A	•			15A	58			SPARE
SPARE			59	15A	•			15A	60			SPARE
SPARE			61	15A	•			15A	62			SPARE
SPARE			63	15A	•			15A	64			SPARE
SPARE			65	15A	•			15A	66			SPARE
SPARE			67	15A	•			15A	68			SPARE
SPARE			69	15A	•			15A	70			SPARE
SPARE			71	15A	•			15A	72			SPARE
TOTAL :												TOTAL :
Ø "A" TOTAL :												WATTS
Ø "B" TOTAL :												WATTS
Ø "C" TOTAL :												WATTS
TOTAL LOAD												KW. AMP. FEEDER

- NOTES:**
- REFER TO DRAWING I102 FOR INSTRUMENT LOCATIONS TO BE COORDINATED WITH INSTALLER.
 - PROVIDE A 15A, 30mA GROUND FAULT SENSITIVE (GFI) BREAKER ON CIRCUIT #21.
 - PROVIDE A 15A, RED LOCKED-ON BREAKER ON CIRCUIT #10.

SNC-LAVALIN

DESIGNED BY: E. BOHNCKE
 CHECKED BY: C. REIMER
 DATE: 2011/03/11

APEGM
 Certificate of Authorization
 SNC-Lavalin Inc.
 No. 4489

NO.	REVISIONS	DATE	BY
2	ADDED FIRE ALARM PANEL	2011/03/11	EFB
1	RECORD DRAWING	08/09/17	LLI
0	ISSUED FOR TENDER	08/07/21	CPG

Reid Crowther
 Consulting Engineering Worldwide

DESIGNED BY: MV
 DRAWN BY: CPG
 HOR. SCALE: AS NOTED
 VERTICAL:

CHECKED BY: PS
 APPROVED BY:
 RELEASED FOR CONSTRUCTION BY:

DATE: 1998/04/08

ENGINEER'S SEAL

ORIGINAL DRAWING SEALED BY:
 C. J. REIMER
 SNC-LAVALIN
 MEMBER #21968
 2011/03/25
 REV. 02
 CHANGES ONLY

CONSULTANT DRAWING NO. 61786.01 E04

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
 EFFLUENT DISINFECTATION FACILITY

FLOOR PLAN
 LIGHTING AND POWER
 DISTRIBUTION

CITY DRAWING NUMBER SEP-2439
 SHEET OF
 REV-2