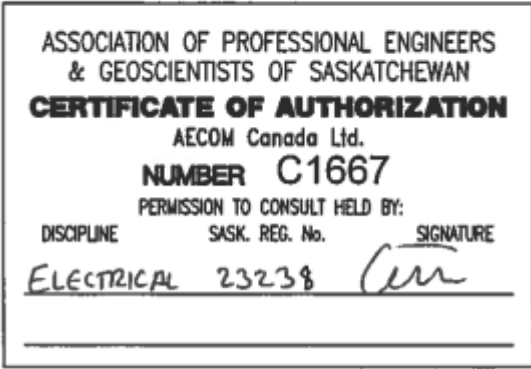


2018/Aug/10, 10:22am Tareg Shrufi Layout1 P:\60565106\800-CAD_GIS\910-CAD\20-SHEETS\01\ER_093894_001-E-8008.dwg



0	Issued For Construction	2018-08-10
Revision	Description	Date
Client		
Agriculture and Agri-Food Canada (AAFC)		
Project title		
AAFC Saskatoon Research and Development Centre (SRDC) Greenhouse LED Retrofit 107 Science Place, Saskatoon, Saskatchewan, S7N 0X2		
Designed by Christopher Turner		
Drawn by Tareg Shrufi		
Approved by Brent Wolfater		
PWGSC Project Manager Eric Haaland		
Drawing title		
SRDC Greenhouse LED Retrofit Electrical GNL1C & GNL1D Cable Schedule		
Project no.	Drawing no.	Revision no.
R.093894.001	E-8008	0

PANELBOARD CABLE SCHEDULE										
SOURCE	SOURCE DESCRIPTION	CABLE TAG	DESTINATION	DESTINATION DESCRIPTION	PANELBOARD - JUNCTION BOX			JUNCTION BOX - LIGHT FIXTURE		
					APPROX. LENGTH (m)	TYPE	CONDUIT	APPROX. LENGTH (m)	CABLE	CONDUIT
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C11]	C11	CANOPY C11 LIGHTING	5	EXISTING	EXISTING 35 mm CONDUIT GNL1C - GHC-1	20	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C1
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C12]	C12	CANOPY C12 LIGHTING	5	EXISTING		20	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C21]	C21	CANOPY C21 LIGHTING	5	EXISTING		20	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C2
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C22]	C22	CANOPY C22 LIGHTING	5	EXISTING		20	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C31]	C31	CANOPY C31 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		34	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C3-1
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C32]	C32	CANOPY C32 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 53 mm CONDUIT GNL1C - GHC-2	34	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C33]	C33	CANOPY C33 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		36	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 21 mm CONDUIT CONDUIT C3-2
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C34]	C34	CANOPY C34 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		38	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C3-3
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C35]	C35	CANOPY C35 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		38	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C41]	C41	CANOPY C41 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		20	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C4
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C42]	C42	CANOPY C42 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		20	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C51]	C51	CANOPY C51 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		20	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C5
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C52]	C52	CANOPY C52 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		20	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C61]	C61	CANOPY C61 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		22	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C6-1
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C62]	C62	CANOPY C62 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		22	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C63]	C63	CANOPY C63 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		24	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 21 mm CONDUIT CONDUIT C6-2
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C64]	C64	CANOPY C64 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		26	EXISTING	EXISTING 21 mm CONDUIT CONDUIT C6-3
GNL1C	GREENHOUSE C PANELBOARD	[GNL1C] - [C65]	C65	CANOPY C65 LIGHTING	5	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1		26	EXISTING	
GNL1C	GREENHOUSE C PANELBOARD	[GNL1B] - [CN-C]	CN-C	GREENHOUSE C CONTROL PANEL	5	NON-ARMORED POWER CABLE (RW90) 600V, 2C #12 AWG + #14 AWG GND		20	NON-ARMORED POWER CABLE (RW90) 600V, 2C #12 AWG + #14 AWG GND	NEW 21 mm CONDUIT CONDUIT CN-C

PANELBOARD CABLE SCHEDULE										
SOURCE	SOURCE DESCRIPTION	CABLE TAG	DESTINATION	DESTINATION DESCRIPTION	PANELBOARD - JUNCTION BOX			JUNCTION BOX - LIGHT FIXTURE		
					APPROX. LENGTH (m)	CABLE	CONDUIT	APPROX. LENGTH (m)	CABLE	CONDUIT
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D11]	D11	CANOPY D11 LIGHTING	12	EXISTING	EXISTING CONDUIT GNL1D - GHD	18	EXISTING	EXISTING CONDUIT CONDUIT D1
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D12]	D12	CANOPY D12 LIGHTING	12	EXISTING		18	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D21]	D21	CANOPY D21 LIGHTING	12	EXISTING		16	EXISTING	EXISTING CONDUIT CONDUIT D2
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D22]	D22	CANOPY D22 LIGHTING	12	EXISTING		16	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D31]	D31	CANOPY D31 LIGHTING	12	EXISTING		24	EXISTING	EXISTING CONDUIT CONDUIT D3-1
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D32]	D32	CANOPY D32 LIGHTING	12	EXISTING		24	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D33]	D33	CANOPY D33 LIGHTING	12	EXISTING		26	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 21 mm CONDUIT CONDUIT D3-2
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D34]	D34	CANOPY D34 LIGHTING	12	EXISTING		28	EXISTING	EXISTING CONDUIT CONDUIT D3-3
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D35]	D35	CANOPY D35 LIGHTING	12	EXISTING		28	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D41]	D41	CANOPY D41 LIGHTING	12	EXISTING		28	EXISTING	EXISTING CONDUIT CONDUIT D4-1
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D42]	D42	CANOPY D42 LIGHTING	12	EXISTING		28	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D43]	D43	CANOPY D43 LIGHTING	12	EXISTING		26	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 21 mm CONDUIT CONDUIT D4-2
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D44]	D44	CANOPY D44 LIGHTING	12	EXISTING		30	EXISTING	EXISTING CONDUIT CONDUIT D4-3
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D45]	D45	CANOPY D45 LIGHTING	12	EXISTING		30	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D51]	D51	CANOPY D51 LIGHTING	12	EXISTING		34	EXISTING	EXISTING CONDUIT CONDUIT D5-1
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D52]	D52	CANOPY D52 LIGHTING	12	EXISTING		34	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D53]	D53	CANOPY D53 LIGHTING	12	EXISTING		36	NON-ARMORED POWER CABLE (RW90) 600V, 4C #12 AWG + #12 AWG GND. NOTE 1	NEW 21 mm CONDUIT CONDUIT D5-2
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D54]	D54	CANOPY D54 LIGHTING	12	EXISTING		38	EXISTING	EXISTING CONDUIT CONDUIT D5-3
GNL1D	GREENHOUSE D PANELBOARD	[GNL1D] - [D55]	D55	CANOPY D55 LIGHTING	12	EXISTING		38	EXISTING	
GNL1D	GREENHOUSE D PANELBOARD	[GNL1B] - [CN-D]	CN-D	GREENHOUSE D CONTROL PANEL	12	NON-ARMORED POWER CABLE (RW90) 600V, 2C #12 AWG + #14 AWG GND		24	NON-ARMORED POWER CABLE (RW90) 600V, 2C #12 AWG + #14 AWG GND	NEW 21 mm CONDUIT CONDUIT CN-D

NOTES:
1. EXISTING WIRING MAY BE RE-USED PROVIDING INSULATION TEST RESULTS ARE SATISFACTORY AND LENGTH IS SUFFICIENT FOR INSTALLATION IN NEW CONDUIT WITHOUT SPLICES.
2. CONTRACTOR TO CONFIRM EXISTING CONDUIT SIZE AND FILL % WITH ENGINEER BEFORE INSTALLATION OF NEW CONDUIT.

