SNC·LAVALIN	CABLE SCHEDULE	Document Code	508042-0000-47EL-0002
		Revision	00

Client: City of Winnipeg

Project: Montcalm Wastewater Pumping Station Upgrades

Package / Area:

	Name	Signature	Date
Prepared By	V. Elimban		2012-02-23
Checked By	C. Reimer		2012-02-23
Approved By	C. Reimer		2012-02-23

Notes / Comments

Seal

Original Sealed By:
C. J. Reimer
SNC-Lavalin Inc.
Member #21968
2012/02/23
Rev. 00

Revisions

Rev	Description	Date	By	Checked	Approved
00	Issued For Tender	2012-02-09	V. Elimban	C. Reimer	C. Reimer

Reference Documents

Cable ID	Cable Type	From	To	Spacing See Note 1	Length (m)	Routing	Notes	Rev
AUTOMATION CABLES								
CA-CP-L2-1	20C, 16 AWG, CIC, 300V	CP-L1	CP-L2	0%	12	Conduit		00
CA-CP-L2-2	6PR, 18 AWG, CIC, 300V, ISOS	CP-L1	CP-L2	0%	12	Conduit		00
CA-L501-HS-1	2C, 12 AWG, RW90, 600V	MS-P-L1	L501-HS-1	0%	20	Conduit		00
CA-L501-HS-2	2C, 12 AWG, RW90, 600V	L501-HS-1	L501-HS-2	0%	5	Conduit		00
CA-L502-HS-1	2C, 12 AWG, RW90, 600V	VFD-P-L2	L502-HS-1	0%	24	Conduit		00
CA-L502-HS-2	2C, 12 AWG, RW90, 600V	L502-HS-1	L502-HS-2	0%	5	Conduit		00
CA-L503-HS-1	2C, 12 AWG, RW90, 600V	VFD-P-L3	L503-HS-1	0%	24	2012-02-23		00
CA-L503-HS-2	2C, 12 AWG, RW90, 600V	L503-HS-1	L503-HS-2	0%	5	Conduit		00
CA-L504-HS-1	2C, 12 AWG, RW90, 600V	MS-P-L4	L504-HS-1	0%	18	2012-02-23		00
CA-L504-HS-2	2C, 12 AWG, RW90, 600V	L504-HS-1	L504-HS-2	0%	5	Conduit		00
CA-L500-1	2C, 16 AWG, CIC, 300V	JBA-L1	JBA-L500-A	0%	10	2012-02-23		00
CA-L500-2	4C, 16 AWG, CIC, 300V	CP-L1	JBA-L1	0%	14	Conduit		00
CA-L500A-3	2PR, 18 AWG, CIC, 300V, ISOS + 12 AWG GREEN GROUND	CP-L1	JBA-L1	Original Sealed	14	Conduit		00
CA-L500A-2	1PR, 18 AWG, CIC, 300V, OS	JBA-L1	JBA-L500-A	0%	10	Conduit		00
CA-L500B-1	1PR, 18 AWG, CIC, 300V, OS	CP-L1	L500-LIT-B	0%	21	Conduit		00
CA-L524	2C, 16 AWG, CIC, 300V	CP-L1	L524-PSL	0%	21	Conduit		00
CA-L527	2C, 16 AWG, CIC, 600V	CP-L1	PNL-L1.L527-ESL	0%	9	Conduit		00
CA-L530	2C, 16 AWG, CIC, 300V	CP-L1	JBA-L530	0%	12	Conduit		00
CA-L533	2C, 16 AWG, CIC, 300V	CP-L1	JBA-L533	0%	17	Conduit		00
CA-L538	2C, 16 AWG, CIC, 600V	CP-L1	PNL-L1.TVSS	0%	9	Conduit		00
CA-L570-1	6C, 16 AWG, ACIC, 300V	JBA-L2	JBA-L570	0%	6	Conduit		00
CA-L570-2	4C, 16 AWG, CIC, 300V	CP-L1	JBA-L2.ISB03	0%	28	Conduit		00
CA-L570-3	4C, 16 AWG, CIC, 600V	MS-SP-L14	JBA-L2.ISB04	0%	20	Conduit		00
CA-L570-4	8C, 16 AWG, CIC, 600V	MS-SP-L14	CP-L1	0%	12	Conduit		00
CA-L552-1	2PR, 18 AWG, CIC, 300V, ISOS	CP-L1	L552-FIT	0%	5	Conduit		00
CA-L552-2	COIL & SENSOR CABLE	L552-FE	L552-FIT	0%	40	Conduit	Supplied by City	00
CA-L557-1	2PR, 18 AWG, CIC, 300V, ISOS	CP-L1	L557-FIT	0%	6	Conduit		00
CA-L557-2	COIL & SENSOR CABLE	L557-FE	L557-FIT	0%	43	Conduit	Supplied by City	00
CA-L600-1	3C+G, 14 AWG, RW90	LC-10	L600-HS-2	0%	7	Conduit		00
CA-L600-2	3C+G, 14 AWG, RW90	LC-10	L600-HS-3	0%	13	Conduit		00
CA-L600-3	2C, 16 AWG, CIC, 300V	LC-10	CP-L1	0%	7	Conduit		00
CA-L601-1	4C, 14 AWG, RW90	CP-L2	JBA-L601-1	0%	11	Conduit		00
CA-L601-2	4C, 14 AWG, RW90	CP-L2	JBA-L601-1	0%	11	Conduit		00
CA-L601-3	4C, 14 AWG, RW90	CP-L2	JBA-L601-3	0%	8	Conduit		00
CA-L602	1PR, 18 AWG, CIC, 300V, OS	CP-L1	L602-TT	0%	11	Conduit		00
CA-L603-1	16C, 16 AWG, CIC, 600V	CP-L2	AHU-L1	0%	12	Conduit		00

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CA-L603-2	1PR, 18 AWG, CIC, 600V, OS	CP-L2	AHU-L1	0%	12	Conduit		00
CA-L604	1PR, 18 AWG, CIC, 300V, OS	CP-L1	L604-TT	0%	17	Conduit		00
CA-L613	1PR, 18 AWG, CIC, 300V, OS	CP-L1	L613-TT	0%	17	Conduit		00
CA-PDP-L1	10C, 16 AWG, CIC, 300V	PDP-L1	CP-L1	0%	5	Conduit		00
CA-MS-P-L1-1	20C, 16 AWG, CIC, 600V	MS-P-L1	CP-L1	0%	15	Conduit		00
CA-MS-P-L1-2	1PR, 18 AWG, CIC, 600V, OS	MS-P-L1	CP-L1	0%	15	Conduit		00
CA-MS-P-L4-1	20C, 16 AWG, CIC, 600V	MS-P-L4	CP-L1	0%	14	Conduit		00
CA-MS-P-L4-2	1PR, 18 AWG, CIC, 600V, OS	MS-P-L4	CP-L1	0%	14	Conduit		00
CA-MS-SF-L2-1	6C, 16 AWG, CIC, 300V	CP-L1	MS-SF-L2	0%	8	Conduit		00
CA-MS-SF-L2-2	4C, 14 AWG, RW90	MS-SF-L2	JBA-L605	0%	10	Conduit		00
CA-VFD-P-L2-1	20C, 16 AWG, CIC, 600V	CP-L1	VFD-P-L2	0%	13	Conduit		00
CA-VFD-P-L2-2	4PR, 18 AWG, CIC, 600V, ISOS	CP-L1	VFD-P-L2	0%	13	Conduit		00
CA-VFD-P-L3-1	20C, 16 AWG, CIC, 600V	CP-L1	VFD-P-L3	0%	14	Conduit		00
CA-VFD-P-L3-2	4PR, 18 AWG, CIC, 600V, ISOS	CP-L1	VFD-P-L3	0%	14	Conduit		00
CN-CP-L1-1	4PR, 24 AWG, CAT5e	JBN-L1	CP-L1	0%	10	Conduit		00
CN-CP-L1-2	4PR, 24 AWG, CAT5e	JBN-L1	CP-L1	0%	10	Conduit		00
CN-VFD-P-L2	4PR, 24 AWG, CAT5e	CP-L1	VFD-P-L2	0%	13	Conduit		00
CN-VFD-P-L3	4PR, 24 AWG, CAT5e	CP-L1	VFD-P-L3	0%	14	Conduit		00
POWER CABLES								
C-PNL-L1	3-4C, 4/0 AWG, TECK90, 1000V	CSTE	PNL-L1	100%	14	Direct Buried		00
C-MCC-L2	3-3C, 3/0 AWG, TECK90, 1000V	PNL-L1	MCC-L2	100%	8	Bottom Entry		00
C-VFD-P-L2	3C, 2/0 AWG, TECK90, 1000V	PNL-L1	VFD-P-L2	100%	7	Top-Side Entry		00
C-VFD-P-L3	3C, 2/0 AWG, TECK90, 1000V	PNL-L1	VFD-P-L3	100%	8	Top-Side Entry		00
C-AHU-L1	3C, 12 AWG, TECK90, 1000V	PNL-L1	AHU-L1	100%	10	Top Entry		00
C-L527	2C, 12 AWG, RW90	PDP-L1	PNL-L1.PM	0%	8	Conduit		00
C-L552-1	2C+G, 14 AWG, RW90	PNL-L10	L552-FIT	0%	5	Conduit		00
C-L557-1	2C+G, 14 AWG, RW90	PNL-L10	L557-FIT	0%	6	Conduit		00
C-LC-L10	5C, 12 AWG, RW90 & 10 AWG, RW90 NEUTRAL & 12 AWG GND	PNL-L10	LC-L10	0%	5	Conduit		00
C-CP-L1-1	2C+G, 12 AWG, RW90	PDP-L1	CP-L1	0%	6	Conduit		00
C-CP-L1-2	2C+G, 12 AWG, RW90	PDP-L1	CP-L1	0%	6	Conduit		00
C-P-L1	3C, 1 AWG, TECK90, 1000V	MCC-L2.MS-P-L1	MTR-P-L1	100%	22	Wall		00
C-P-L4	3C, 1 AWG, TECK90, 1000V	MCC-L2.MS-P-L4	MTR-P-L4	100%	20	Wall		00
C-MS-SF-L2	2C, 12 AWG, TECK90	PNL-L10	MS-SF-L2	100%	6	Wall		00
C-SF-L2	2C, 12 AWG, TECK90	MS-SF-L2	SF-F2	100%	5	Wall		00
C-SP-L14	3C, 12 AWG, TECK90, 1000V	MCC-L2	JB-SP-L14	100%	25	Wall		00
C-SW-L10	2C+G, 12 AWG, RW90	LC-10	SW-L10-7	0%	8	Conduit		00
C-PFC-P-L1	3C, 8 AWG, RW90	MS-P-L1	PFC-P-L1	0%	4	Conduit		00
C-PFC-P-L4	3C, 8 AWG, RW90	MS-P-L1	PFC-P-L4	0%	4	Conduit		00

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C-PDP-L1	2C, 12 AWG, RW90	PNL-L10	PDP-L1	0%	6	Conduit		00
C-P-L2	3C, 1 AWG, VFD CABLE	VFD-P-L2	MTR-P-L2	100%	24	Wall	VFD Rated	00
C-P-L3	3C, 1 AWG, VFD CABLE	VFD-P-L3	MTR-P-L3	100%	24	Wall	VFD Rated	00

Notes

1. The Spacing column refers to the minimum percentage of a cable diameter, that must be between the nearest adjacent cable. Where two cables are adjacent, the spacing between the cables shall be the larger of the two spacings specified. Note that cables with a minimum spacing of 0%, may not be adjacent to existing or new cables with unspecified spacing.
2. The length is an estimate only, and is not to be utilized for construction. The contractor is responsible for determining the required cable lengths.
3. This schedule is provided for reference only. The potential omission of any cables on this schedule, which may be required, does not reduce the contractor's responsibility in providing a complete installation.
4. All conductors are copper, unless indicated otherwise.
5. Wiring associated with lighting and receptacle loads are not shown.
6. Legend:
   OS Overall Shield
   ISOS Individual and Overall Shield