REGIONAL DISTRICT OF NANAIMO

REQUEST FOR STATEMENTS OF QUALIFICATIONS No. 22-001

Greater Nanaimo Pollution Control Center MCC Replacement Project Engineering Services

Addendum 2

Issued: January 12, 2022

Closing Date & Time: on or before 3:00 PM Pacific Time on January 13, 2022

This addendum shall be read in conjunction with and considered as an integral part of the Request for Statements of Qualification. Revisions supersede the information contained in the original Proposal or previously issued Addendum. No consideration will be allowed for any extras due to any Proponent not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Item #	Clarification Question	RDN Response
1	As part of this RFSQ a detailed pricing breakdown for the project is not required, correct?	Not required at this time.
2	Who is the existing controls/PLC Vendor?	Allen Bradley.
3	Is the controls/PLC work only required for MCC973 and are we connecting to an existing "upgraded" DeviceNet system or is design of new main control/PLC system required?	MCC973A needs to be converted from DeviceNet to Ethernet IP. The other MCCs will be new and utilize ethernet based smart starters. CP-100 will be fully replaced. The successful proponent will work with the RDN to better define the project scope during the next phase of work.
4	The RFSQ notes civil consulting, is there any expected site service or civil work anticipated?	Civil/Structural works only include mounting the new equipment (foundations, seismic etc.).
5	Is the schedule as noted in the RFSQ still the same and not affected by Addendum 1?	The schedule provided in the RFSQ is for reference only. The successful proponent will work with the RDN to develop a suitable project schedule during the next phase.
6	Are as-built CAD drawings available?	As-Built drawings are not available. Some drawings are available in CAD.

7	Can we have a site visit?	The successful proponent will attend a mandatory site visit during the next phase of the RFSQ process. At this time a site visit is not required.
8	What are the process and operating limitations to take into consideration for MCC and CP-100 replacement and upgrade strategy? Including: a. MCC/load/CP-100 outage length? b. MCC-961/962 relocation opportunity? c. CP-100 relocation opportunity? d. Replace MCC-961/962 with 'in-kind' equipment or any modifications needed?	The plant does not have dedicated outage times and equipment outages must be minimized. The successful proponent will need to fully consider these challenges and work with RDN operations/engineering to develop a detailed execution plan. a. Allowable durations will need to be considered for all equipment and the loads they serve. b. The majority of field wiring is run through conduit embedded in the e-room floor. Relocation not practical without repulling a significant amount of wiring. c. Wiring is mostly through conduit encased in concrete. Minimal relocation is possible. d. There may be an opportunity to consolidate equipment within 961/962. Generally, the intent is for "in-kind" replacement.
9	Can the RDN provide the Electrical Room Layout drawing for the Basement MCC Room?	GN-E-321 Operations Building Basement Level Plan drawing is available and attached to this addendum.
10	Confirm if any new or upgraded loads are being added to the MCCs listed in the RFSQ.	Some existing loads are decommissioned and will be marked as spare. There will not be additional equipment added.
11	Is there a sample document for the Process Control Narrative, just want to understand if this is regarding our QA/QC processes or the design process (conceptual/design brief, schematic, detailed design, construction & CA etc.).	Process Control Narratives (PCN's) are a written description of how a control system is expected to operate. These documents are used by programmers and engineers to aid in the implementation of control system logic and clearly define system parameters (alarms, setpoints, automatic/manual modes, interlocks, etc.). The RDN is developing a standard template that will be used by the proponent during the engineering phase.

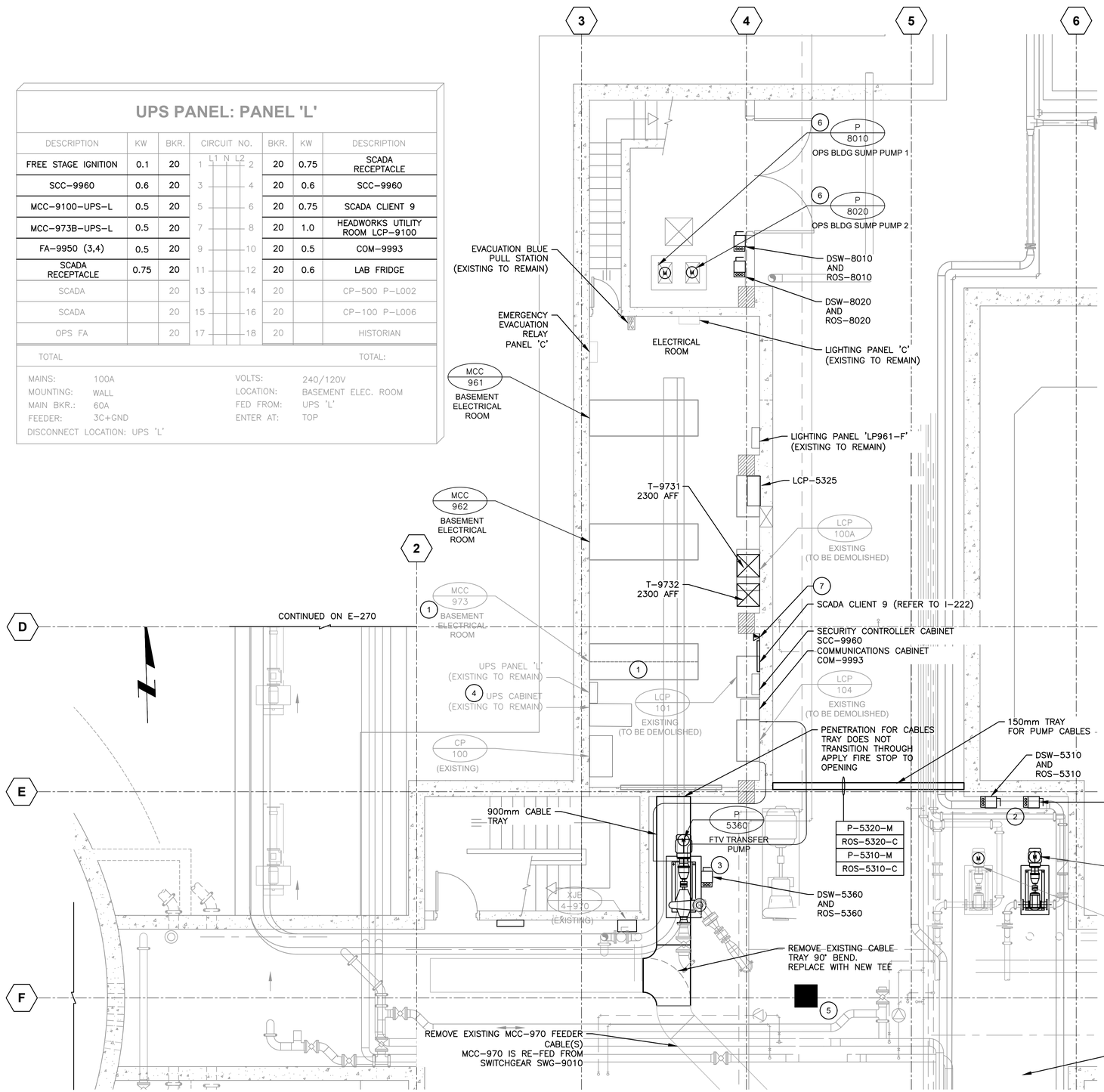
End of Addendum 2

UPS PANEL: PANEL 'L'

DESCRIPTION	KW	BKR.	CIRCUIT NO. (L1 N L2)		BKR.	KW	DESCRIPTION
FREE STAGE IGNITION	0.1	20	1	2	20	0.75	SCADA RECEPTACLE
SCC–9960	0.6	20	3	4	20	0.6	SCC–9960
MCC–9100–UPS–L	0.5	20	5	6	20	0.75	SCADA CLIENT 9
MCC–973B–UPS–L	0.5	20	7	8	20	1.0	HEADWORKS UTILITY ROOM LCP–9100
FA–9950 (3,4)	0.5	20	9	10	20	0.5	COM–9993
SCADA RECEPTACLE	0.75	20	11	12	20	0.6	LAB FRIDGE
SCADA		20	13	14	20		CP–500 P–L002
SCADA		20	15	16	20		CP–100 P–L006
OPS FA		20	17	18	20		HISTORIAN
TOTAL							TOTAL:

MAINS: 100A
MOUNTING: WALL
MAIN BKR.: 60A
FEEDER: 3C+GND
DISCONNECT LOCATION: UPS 'L'

VOLTS: 240/120V
LOCATION: BASEMENT ELEC. ROOM
FED FROM: UPS 'L'
ENTER AT: TOP



OPERATIONS BUILDING - BASEMENT LEVEL PLAN
SCALE 1:50

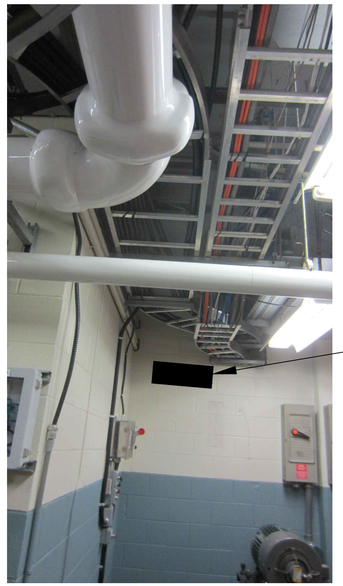


IMAGE 1 - CABLE TRAY TO ELECTRICAL ROOM (APPROX.)

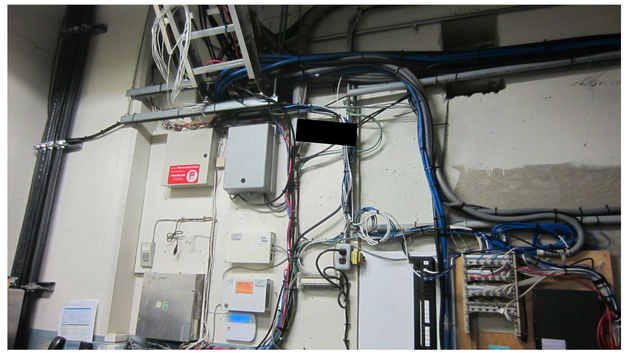


IMAGE 2 - CABLE TRAY TO ELECTRICAL ROOM (APPROX.)

KEY NOTES:

1. PROVIDE EXTENSION TO EXISTING MCC–973A(B) AS PER DRAWING E–261. EXISTING MCC (MCC–973A) IS ALLEN–BRADLEY CENTERLINE 2100 SERIAL NO. 6501191522/100(P).
2. REFURBISH EXISTING AND FEED NEW SLUDGE FEED PUMPS FROM NEW MCC–973B VFDs. INSTALL NEW DISCONNECT SWITCH AND REMOTE OPERATOR STATIONS.
3. INSTALL NEW FEEDER AND CONTROLS FOR P–5360 FTV TRANSFER PUMP.
4. PROVIDE 3x20A/1P BREAKERS FOR CIRCUITS IN EXISTING UPS PANEL 'L' TO FEED RECEPTACLES IN SCADA AREA OF OPERATIONS BUILDING SECOND LEVEL.
5. VERTICAL SHAFT BUILT TO SUPPLY MAIN & SECOND FLOOR LIGHTING PANELS.
6. PROVIDE FEEDERS TO NEW SUMP PUMP FROM MCC–973B.
7. PROVIDE DUPLEX DATA OUTLET FROM PANEL CP–100.
8. PROVIDE FEEDER TO NEW DOMESTIC HOT WATER TANK FROM MCC–973A
9. EXISTING DS FEED PUMP 1 (P–531) TO REMAIN. RE–TAG TO P–5310.

DRN BY:	DES BY:	CHK BY:	APP BY:
KSB	LCS	KM	RJK

VERIFY SCALE IF PLAN SHEET IS REDUCED — 30 mm

REV	DESCRIPTION	DRN	CHK	DATE (Y/M/D)
2	RECORD DRAWING	KSB	LCS	2020/12/01
1	ISSUED FOR CONSTRUCTION	KSB	LCS	2017/03/01
0	ISSUED FOR TENDER	KSB	LCS	2016/11/28

PREPARED FOR: REGIONAL DISTRICT OF NANAIMO

PREPARED BY: AECOM
4th FLOOR, 3292 PRODUCTION WAY, BURNABY, B.C., V5A 4R4
604-444-6400

REGIONAL DISTRICT OF NANAIMO
GREATER NANAIMO POLLUTION CONTROL CENTRE
SECONDARY TREATMENT UPGRADE

ELECTRICAL
OPERATIONS BUILDING
BASEMENT LEVEL PLAN

PROJECT START DATE (M / Y)	APR./2015
PROJECT NO.	60343972
FILENAME	E-252.dwg
RDN DRAWING No.	GN-E-321
DRAWING No.	E-252