



TAL-CO SUPPLEMENTAL INSTRUCTION #44			
Project Name:	RW TOMLINSON - NEW HEAD OFFICE		
Project Location:	100 CitiGate Drive, Ottawa, Ontario		
ARCH. SI #:	N/A	Issued By:	Chris Simpson
STRUC. SI #:	N/A	Date Issued:	June 15, 2017
MECH. SI #:	N/A	Revision #:	N/A
ELEC. SI #:	CCN E-7 & CCN E-8	Revision Date:	N/A

Supplemental Instructions are issued by the Construction Manager to record a clarification or revision to the previously issued Contract Documentation as reflected by the attached information prepared by the identified Professionals.

The Construction Manager shall review the Supplemental Instruction and the attached information and issue to the affected Trade Contractors identifying the following course of action by the Trade Contractor.

Notify TAL-CO within 5 days of receipt, if the attached documents will require a change to Contract Price or Schedule.

Title: Electrical Modifications to Mechanical Equipment (CCN E-7) and Fire Alarm (CCN E-8)

Reference: Electrical Drawings - Construction Issue - November 22nd, 2016

Attachments:

- CCN E-7
- CCN E-8

Description of the Work:

CCN E-7: Modify breakers/ wiring as detailed to suit changes to mechanical equipment.

CCN E-8: Modify fire alarm system as detailed relating to smoke dampers, duct smoke detectors, etc.

Reason:

Changes result from revised requirements for Mechanical equipment (pumps and boilers) as well as required changes to fire alarm system.

Contemplated Change Notice

CCN E-7

Project: Tomlinson Regional Headquarters Building
Location: 100 Nortel Drive, Ottawa
Contractor: Tal-Co Building Innovations / Continental – Price Electric
Date: May.30, 2017

Provide quotation/credit for proposed work described in this CCN. No work can commence prior to approval of this quotation.

Scope of work.

1, Mechanical Pump Modifications:

.1 Mechanical Penthouse Heating Boiler/Pump deletions:

- .1 Delete the following equipment from their associated panel circuit locations, reuse breakers for new system requirements: Provide credit for all feeder wiring not installed.
 - .1 Item 32 of MSCL B-1 Heating Boiler. 20A, 1 Pole Breaker Fed from Panel NE-2.
 - .2 Item 33 of MSCL B-2 Heating Boiler. 20A, 1 Pole Breaker Fed from Panel NE-2.
 - .3 Item 34 of MSCL B-3 Heating Boiler. 20A, 1 Pole Breaker Fed from Panel PH-A.
 - .4 Item 35 of MSCL B-4 Heating Boiler. 15A, 1 Pole Breaker Fed from Panel PH-A.
 - .5 Item 38 of MSCL P-1A. 20A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
 - .6 Item 39 of MSCL P-1B. 20A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
 - .7 Item 40 of MSCL P-2A. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
 - .8 Item 41 of MSCL P-2B. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
 - .9 Item 42 of MSCL P-3A. 15A, 3 Pole Breaker Fed from CDP-NE1.

- .10 Item 43 of MSCL P-3B. 15A, 3 Pole Breaker Fed from 600V Panel CDP-NE1.
- .11 Item 44 of MSCL P-4A. 15A, 3 Pole Breaker Fed from 600V Panel CDP-NE1.
- .12 Item 45 of MSCL P-4B. 20A, 3 Pole Breaker Fed from 600V Panel CDP-NE1.
- .13 Item 46 of MSCL P-5A. 20A, 3 Pole Fed from 600V Panel CDP-NE1.
- .14 Item 47 of MSCL P-5B. 15A, 3 Pole Fed from 600V Panel CDP-NE1.
- .15 Item 48 of MSCL P-6. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
- .16 Item 49 of MSCL P-7. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
- .17 Item 50 of MSCL P-8. 20A, 1 Pole Breaker Fed from 120/208V Panel NE-2.
- .18 Item 51 of MSCL P-9. 20A, 1 Pole Breaker Fed from 120/208V Panel NE-2.
- .19 Item 52 of MSCL P-10. 20A, 1 Pole Breaker Fed from Panel PH-A.
- .20 Item 53 of MSCL P-11. 20A, 1 Pole Breaker Fed from Panel PH-A.
- .21 Item 54 of MSCL P-12. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
- .22 Item 54A of MSCL P-13. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.
- .23 Item 54B of MSCL P-14. 15A, 3 Pole Breaker Fed from 600V Panel CDP-PH1.

.2 New Mechanical Penthouse Heating Boiler/Pump change Requirements.

- .1 Provide Direct connections c/w conduit, wiring, breakers, fasteners and fitting as required for a complete and operational system. Reuse breakers from original design as required.

Pumps:

- .1 Pump 1A: 15HP, 600V, Duplex Base 50% PG Chilled Loop, Primary Chilled Glycol Loop, Location: Mechanical Penthouse. Provide 20A, 3 Pole Breaker c/w feeder from Panel CDP-PH1. As per Existing Design, No Change required.
- .2 Pump 1B: 15HP, 600V, Duplex Base 50% PG Chilled Loop, Primary Chilled Glycol Loop, Location: Mechanical Penthouse. Provide 20A, 3 Pole Breaker c/w feeder from Panel CDP-PH1. As per Existing Design, No Change required.
- .3 Pump 2A: 15HP, 600V, Duplex Base 30% PG heating Loop, Primary Heating Glycol Loop, Location: Mechanical Penthouse. Provide 20A, 3 Pole Breaker c/w feeder from Panel CDP-NE1.
- .4 Pump 2B: 15HP, 600V, Duplex Base 30% PG heating Loop, Primary Heating Glycol Loop, Location: Mechanical Penthouse. Provide 20A, 3 Pole Breaker c/w feeder from Panel CDP-NE1.
- .5 Pump 3A: 7.5HP, 600V, Duplex base Heating Water Loop, Primary Heating Water Loop, Location: Mechanical penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel CDP-PH1.
- .6 Pump 3B: 7.5HP, 600V, Duplex Base Heating Water Loop, Primary heating Water Loop, Location: Mechanical penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel CDP-PH1.
- .7 Pump P4: 0.5HP, 600V, Inline 50% PG Heating Loop, Hx-2 to AHU-4 Heating, Location: Holding Room Vestibule. Provide

- 15A, 3 Pole Breaker c/w feeder from Panel CDP-A2.
- .8 Pump P5: 0.5HP, 120V, 30% PG Heating Return to Boilers, Serving IWT 1 &2.
Location: Mechanical Penthouse. Provide 15A, 1 Pole Breaker c/w feeder from Panel A-PH.
 - .9 Pump P6: 0.1HP, 120V, Inline Recirculation Pump, Serving DHWR North, Location: Mechanical Penthouse. Provide 15A, 1 Pole Breaker c/w feeder from Panel A-PH.
 - .10 Pump P7: 0.1HP, 120V, Inline Recirculation Pump, Serving DHWR South, Location: Mechanical Penthouse. Provide 15A, 1 Pole Breaker c/w feeder from Panel A-PH.
 - .11 Pump P8: 9.7Amps, 120V, Sump Pit Pump, Serving Elevator Pit, Locations: Ground Level Janitor Closet. Provide 15A, 1 Pole Breaker c/w feeder from Panel A1.
 - .12 Pump P9: 5HP, 600V, Inline 50% PG Cooling Loop, Serving AHU-1 Cooling, Locations: Mechanical Penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel CDP-NE1.
 - .13 Pump P10: 3HP, 600V, Inline 50% PG Cooling Loop, Serving AHU-2 Cooling, Locations: Mechanical Penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel CDP-NE1.
 - .14 Pump P11: 208V, Inline 50% PG Cooling Loop, Serving AHU-4 Cooling, Locations: Mechanical Penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel NE2.
 - .15 Pump P12: 5HP, 600V, Inline 50% PG Cooling Loop, Serving AHU-3 Cooling, Locations: Mechanical Penthouse. Provide 15A, 3 Pole Breaker c/w feeder from Panel CDP-NE1.
 - .16 Pump P13: 0.5HP, 120V, 30% PG Heating Return to Boilers, Serving IWT 1 &2.

Location: Mechanical Penthouse. Provide 15A, 1 Pole Breaker c/w feeder from Panel A-PH.

Boilers:

- .17 Heating Boilers B1 to B3 120V/1/345Watts. Provide 15A, 1 Pole Breaker c/w feeder from Panel NE-2.
- .18 Heating Boilers B4 to B6 120V/1/345Watts. Provide 15A, 1 Pole Breaker c/w feeder from Panel A=PH.
- .19 Heating Boilers B7 to B10 120V/1/345Watts. Provide 15A, 1 Pole Breaker c/w feeder from Panel A=PH.

- 2. Refer to Latest Mechanical drawings for exact locations of equipment, equipment is generally located within the penthouse with exception of the Elevator Sump Pit Pump and P4 which is located in the Holding Room Vestibule.
- 3. All Controls wiring by Mechanical contractor, Starters supplied by mechanical contractor.
- 4. Mark all changes on As-Built Drawings.

End of CCN

Contemplated Change Notice

CCN E-8

Project: Tomlinson Regional Headquarters Building
Location: 100 Nortel Drive, Ottawa
Contractor: Tal-Co Building Innovations / Continental – Price Electric
Date: May.30, 2017

Provide quotation/credit for proposed work described in this CCN. No work can commence prior to approval of this quotation.

Scope of work.

1, Fire Alarm Modifications:

.1 The Following additional items shall be included in the Electrical Contractors' scope of work:

.1 Fire Alarm Additions:

- .1 Provide Twenty Four (24) Intelligent Addressable Fire Alarm Relay Output Modules. 24AC output connection to smoke dampers. Coordinate locations with the mechanical contractor, Electrical contractor to provide power/control wiring to each devices.
- .2 Provide Six (6) Addressable Duct Smoke Detectors, on supply side, and return side of Air Handling Units. Confirm exact locations with mechanical contractor.
- .3 Provide Ten (10) Manual Pull Stations. Locations confirmed on site..
- .4 Provide connection to Four (4) valve tamper switches located on 2nd and 3rd floor.
- .5 Provide connection of Two (2). Tamper switches at water entry location for:
 - Back Flow Inlet
 - Backflow outlet

2 Provide all associated Addressable Relay Input/output modules, Line Isolation modules, conduit, JBs, fasteners, fitting, FAS type wiring and verification as required for a complete and operational system.

End of CCN