

The following changes to the tender documents are effective immediately and will form part of the contract documents:

## 1 GENERAL

### .1 Attachments

#### .1 Specifications:

| Section No. | Section Title | No. of Pages |
|-------------|---------------|--------------|
|             | NOT USED      |              |

#### .2 Drawings:

| Drawing No. | Drawing Title | Issue Date |
|-------------|---------------|------------|
|             | NOT USED      |            |

#### .3 Equipment Cut Sheets / Schedules/ Other Attachments:

| ID | Description  | No. of Pages |
|----|--|--------------|
|    | SITE PLAN SKETCH FOR PARTIAL EXISTING UNDERGROUND SERVICES | 1            |
|    | PHOTO LIBRARY  | 7            |
|    | SITE PLAN SKETCH OF ALLOWABLE DURATION FOR OPEN TRENCHES   | 1            |

## 2 TENDER PERIOD QUESTIONS AND ANSWERS

- .1 **Question:** Lighting suppliers are requesting more information on the lighting poles. Section 25 50 00 does not contain enough information to ensure the new poles match the existing poles. Please provide more information.  
**Answer:** Existing site lighting images of lamp post and remote head make and model included as part of the attached photo library.
- .2 **Question:** Please provide pictures of equipment to be demolished inside C12 Powerhouse.  
**Answer:** Existing equipment to be demolished inside C12 Powerhouse included as part of the attached photo library.
- .3 **Question:** Can you give more details on underground tunnels, ie, width and depth?  
**Answer:** Typical tunnel dimensions are 6'-0" (width) x 7'-0" (height) with mechanical chases on both sides running along the tunnel. Average clearance between chases is 3'-0".

## 3 CHANGES TO ADDENDA

- .1 NOT USED

## 4 CHANGES TO PROJECT MANUAL - GENERAL

- .1 All reasonable efforts are expected to backfill open trenches within 72 hours in areas identified with yellow highlight in attached Site Plan. For safety in these areas, posts and high visibility tape is required to identify trenched areas prior to backfill operations. Within the Areas circled in red in attached Site Plan are required to be backfilled by the end of working day.

- .2 Complete tool lists are required for all Contractors on site at Stony Mountain Institute to be checked daily, including complete tool lists for work trucks. Stony Mountain Institute reserves the right for daily and/or random verification inspections on site tool inventory.
- .3 All construction will occur during the hours Monday to Friday (7:30 am – 4:30 pm) unless otherwise pre-approved by the Departmental Representative. Carry out noise generating work Monday to Friday (7:30 am – 4:30 pm) unless otherwise pre-approved by the Departmental Representative.

## **5 CHANGES TO SPECIFICATIONS – ELECTRICAL**

- .1 Section 01 11 00 – Summary of work, Section 1.11 Security Clearance
  - .1 DELETE : Section 1.11 Security Clearance
- .2 Section 01 11 00 – Summary of work, Section 1.12 Security Requirements
  - .1 REVISE : Point .1  
Contractors must apply for, obtain and wear a contractor security pass at all times while working at Stony Mountain Institute
  - .2 DELETE: Point .2
  - .3 DELETE: Point .3
- .3 Section 01 32 16.19 – Construction Project Schedule – Bar (Gantt) Chart, sub section 1.05 Project Schedule
  - .1 REVISE Point .2  
Ensure detailed Project Schedule includes as minimum milestone and activity types as follows:
    - 1. Award
    - 2. Shop Drawings, Samples.
    - 3. Permits.
    - 4. Mobilization.
    - 5. Demolition: Exterior; pole base, wiring etc. (identify phasing in each case)
    - 6. Demolition: Interior Building A1
    - 7. Demolition: Interior building C12
    - 8. Demolition: Interior tunnel wiring and conduit
    - 9. Removal of poles to be re-used
    - 10. Temporary lighting installation
    - 11. Excavation.
    - 12. Backfill.
    - 13. Concrete Pole Base
    - 14. Underground Duct install
    - 15. Underground wire install
    - 16. Pole delivery to site
    - 17. Pole luminaire delivery to site
    - 18. Pole luminaire install and wire termination
    - 19. Building A3 interior electrical installation

20. Testing and Commissioning.

.2 ADD Point .3

Suggested phasing of work shall be carried out as noted below. Contractor to review and provide recommended changes, with reasoning, for approval by Departmental Representative to achieve identified project milestone. Phases below are identified by pole tags as identified on drawing E3 with focus on earth work and electrical duct/ wiring installation.

Phase 1: PH-PL1 to PH-PL10

Phase 2: PH-PL11 to PH-PL17

Phase 3: PH-PL21 to PH-PL24

Phase 4: A1-PL9 to A1-PL11 and PH-PL18 to PH-PL 20

Phase 5: A1-PL12 to A1-PL17

Phase 6: A1-PL1 to A1-PL8

.4 Section 01 11 00 – Summary of Work, sub section 1.04 Time Of Completion

.1 ADD Point .3

Contractor to complete all earth work including trenching, duct installation, backfill, road crossings, concrete encasements for crossings over tunnel, concrete light standard bases prior to November 15, 2019. Contractor to carry all cost for digging through freeze up and cold weather concreting as per specifications.

.5 Section 26 50 00 – Lighting, sub section 2.05 Mounting – Steel Pole,

.1 Point .1

DELETE AND REPLACE AS FOLLOWS:

Pole type finish: to match existing poles on site (green), at minimum, hot dipped galvanized on interior and exterior surfaces per ASTM A123-09.

.2 Point .3

DELETE AND REPLACE AS FOLLOWS:

Style: monotube, tapered octagonal type, Single Davit; Pole height 9.14m (30') and pole reach 1.83m (6').

.6 Section 26 05 44 – INSTALLATION OF CABLES IN TRENCHES AND IN DUCTS, sub section 2.05 UNDERGROUND PULL BOX,

.1 ADD Point .4:

Pull box minimum requirements as follows:

Use : Medium Duty Box and Lid

Material: Polymer Concrete (box and lid)

Markings: Lid marked "Electric"

Type : Circular or Rectangular, Min 270mm wide and 450mm deep

Rating : Tier 15 per ANSI/SCTE 77 2017 table 2

Concrete collar: minimum 200mm deep x 200mm wide

Gravel Base: Minimum 150mm gravel base.

**6 CHANGES TO SPECIFICATIONS – STRUCTURAL**

.1 NOT USED

**7 CHANGES TO SPECIFICATIONS – CIVIL**

- .1 NOT USED

**8 CHANGES TO DRAWINGS – ELECTRICAL**

- .1 E1 – Electrical Site Plan – Demolition; Refer to Key notes 2, 3 and 4.
  - .1 ADD to each Key note: All wiring to be removed shall be pulled back to source. Below grade ducts within 1500mm of pole base shall be removed. Remainder of buried duct may be abandoned in place.
- .2 E1 – Electrical Site Plan – Demolition; Refer to General Note 14.
  - .1 DELETE AND REPLACE AS FOLLOWS: Where indicated by Key Note 3 and 4, demolish existing concrete base up to a minimum of 1000mm below grade and abandon remainder of base in place. Install a new base as per structural details. Alignment of new base to be consistent with previously installed poles along the road.
- .3 E1 – Electrical Site Plan – Demolition; Detail 1.
  - .1 Existing 600mm (24") x 600mm (24") x 200mm (8") junction box located partially below wooden deck, between light poles A1-PL1 and A1-PL2. Junction box consists of various 53mm underground conduits and wiring branching out to existing poles and into A1 building basement pull box. Contractor to allow for safe access to this junction box by removing wooden deck boards, as required. Contractor to isolate and remove lighting circuits back to source. Demolish junction if junction box serves only lighting circuits and abandon existing ducts in place. Patch, repair, and paint deck to match existing.
- .4 E3 – Electrical Site Plan – New Layout, Schedules and Details; detail 3.
  - .1 Refer to updated specification section 26 05 44 changes noted in this addendum for performance requirements and minimum dimensions.
  - .2 Pull box and pull box cover construction revised to polymer concrete.
  - .3 Provide a minimum 150mm of 19mm crushed stone base below pull box.

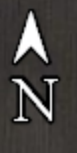
END OF ADDENDUM NO. 1





**Legend**

- Linestring (4 Wire Trench)
- Linestring (Abandoned)
- Linestring (Communication)
- Linestring (Gas)
- Linestring (Power)
- Linestring (Tunnel)



100 m

Old Highway 7

321 Rd

Bedson Ln





**Image 1:** Pole PH-PL 12, base plate



**Image 2:** General Pole image



**Image 3:** Building A3 – Distribution layout



**Image 4:** Building A3 – Board A3-PL-002.N



Image 5: Building A3 – Board A3-PL-002.N sample TVSS breaker



**Image 5:** Building C12 – Distribution EMAB

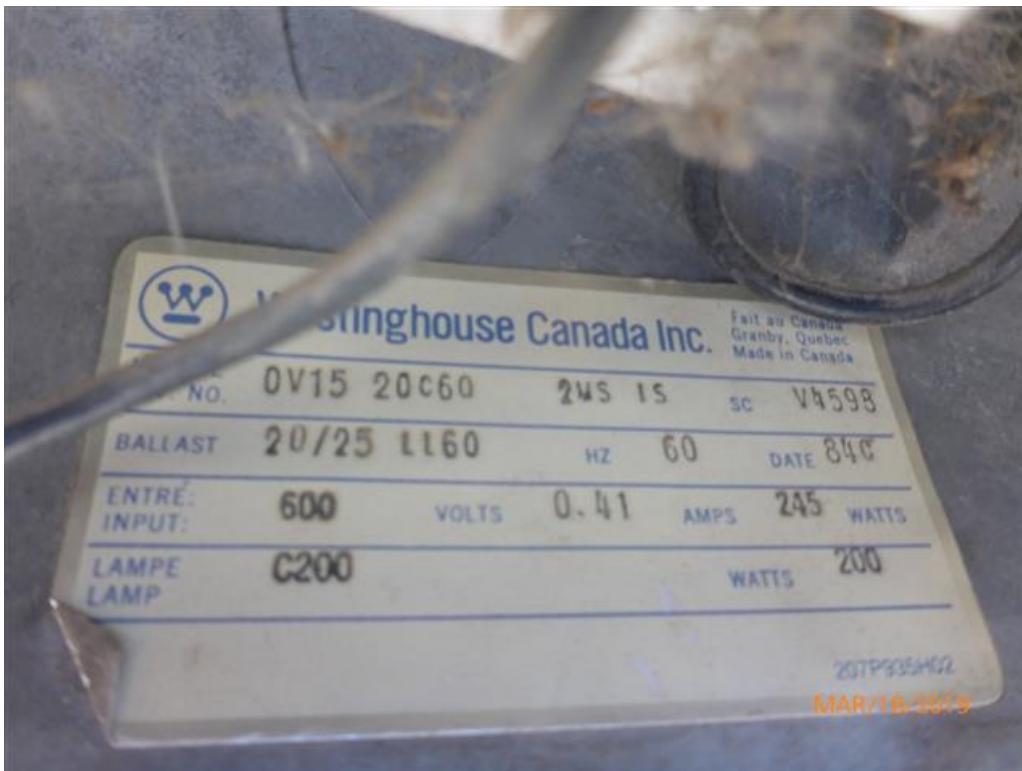




**Image 6:** Building C12 – Distribution EMAB



**Image 7:** Building A1 – Conduit run to building exterior parking lot



**Image 8:** Street light luminaire – sample luminaire part number



**Image 9:** General Dual Head Pole image



**Image 9:** Building C12 – Power house street light controller and contactor



