



MUNICIPAL COMPLEX GENERATOR

Addendum 2

February 27, 2024

Responses to questions received are below.

1. Drawing E3 indicates the power conduits for the service are existing to the new automatic transfer switch location. We believe the conduits are not in place and will need to be intercepted around the existing utility meter and extended to the automatic transfer switch. Is this a correct understanding?

Response: Your understanding is correct. The (2) 4" conduits are currently installed from the utility pole to the electric room and will need to be intercepted as you describe. Refer to Sheet E2, Detail 2/E2 "Power Riser Diagram – New". This detail shows the correct installation.

2. Drawing E3 shows no new conduits from the existing metering cabinet to the proposed main disconnect switch. We believe a connection between these two devices will be required. Is this required if So, what size conduits will need to be installed ?

Response: Provide 2" conduit from existing metering cabinet to the proposed new ATS.

3. The power riser diagram on drawing E2 indicates the existing underground conduits between the main electrical room and the new disconnect switch are existing. Is this correct?

Response: See reply to question 1 above.

4. The power riser diagram new on drawing E2 refers us to detail AA for the underground conduit installation. Detail AA is shown on the E3 and indicates a single underground conduit for the generator and three control and signal conduits. This is different than what is noted on the site drawings. What is the correct installation?

Response: Detail A-A is intended to show the depth of the conduits below ground only. Refer to Sheet E2, Details 2/E2 and 4/E2. These details are correct as follows:

(1) 3" conduit for power and (3) 1" conduits for control wires are required from the ATS to the generator.

(2) 4" conduits for power and (3) 1" conduits are required from the Disconnect Switch to the Main Electric Room.

5. We believe a significant power outage will be required to complete the installation shown on the drawings. What type of duration is the town expecting/allowing for the installation to occur?

Response: Town will work with selected installer on power outage duration and scheduling.

6. Will the owner be handling any utility back charges associated with this work. The utility cannot provide a price for the work they will be required to do in the time frame necessary to meet the bid date. If the town will not be handling the utility charges can an allowance be provided for this value so that all bidders are on an equal footing?

Response: Owner will pay utility directly.

7. The project appears to be designed around Caterpillar generators. Is it the owner's intention that this be a sole source project for Caterpillar generator? If not, can the engineer provide us with the name of vendors he considers or equal so that we can obtain competitive pricing for the required unit?

Response: Per the generator specifications, other generator manufacturers that meet the following requirements are allowed:

C. APPROVED MANUFACTURERS

1. The engine and generator shall be the product of an ISO 9001 certified manufacturer and distributor. The design is based on a Caterpillar engine/generator set. Any changes to the design based on other manufacturers will be the responsibility of the installing contractor at no additional cost to the owner. Units manufactured by others will be considered provided they meet the substitution requirements. The naming of a specific manufacturer does not waive any requirements or performance of individual components described in this specification.

2. Substitutions to this specification shall include complete submittal data clearly identifying all deviations or exceptions and shall be submitted for approval a minimum of ten (10) days prior to the bid date."

8. The automatic transfer switch shown on the drawings does not appear to be a service entrance rated device. There appears to be no overcurrent protection ahead of the transfer switch on the utility side. It has been our experience in the past that overcurrent protection on the utility side of the automatic transfer switch is needed. Can the engineer confirm if overcurrent protection is required or not?

Response: Refer to the specifications for the ATS, which specifies service entrance rated.

9. The drawings indicate we are to provide a grounding connection 2 building steel, footing, driven ground rods and such. We are making limited connections to the building system itself. Does this detail apply and if so, can the engineer locate on the drawing where structural steel is available, how we will connect to the footing, and any other pertinent information to allow us to complete this work.

Response: Building grounding system is existing. Intent of Typical Grounding Diagram in Detail 3/E3 is to show EGC is required from new generator to existing building grounding system.

10. The drawings indicate we are to install parallel 350 MCM aluminum conductors for this service. These cables are suitable for 250 amps according to the national electrical code. The existing main circuit breaker is 800 amps. There appears to be a disconnect between the cable size and the circuit breaker. Can the engineer confirm this is the correct cable size for the specified equipment?

Response: Refer to Sheet E2, Details 2/E2 and 4/E2. These details are correct as follows:

The generator CB = 250 Amps. Therefore (1) 3" conduit with 1 set of 350 MCM conductors (rated for 250 Amps) for power are required from generator to ATS.

(2) 4" conduits with (2) sets of 350 MCM conductors per conduit are rated for a total of 1000 Amps for power are required from the ATS/Disconnect Switch to the Main Electric Room.