

ADDENDUM NO. 2

Jesse Brown VA Medical Center

Department of Veterans Affairs
Great Lakes Health Care System

Replace Switchgear, Building 21
VA #537-14-110

TO: "ALL BIDDERS OF RECORD"

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM OF THE DRAWINGS AND SPECIFICATIONS BY INSERTING ITS NUMBER IN THE PROPOSAL FORM. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION. THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS. IT MODIFIES THEM AS FOLLOWS:

PRE-BID QUESTIONS:

1. **Question:** Drawing 8 of 16 – General Note 1.1.1: Please confirm if the Sunday's only shutdowns are limited to an 8-hour day or 24-hour day. Please confirm that Sundays are the only day of the week that shutdowns/cutovers can be performed.
 - a. **Reply:** *Shutdowns are limited to Sundays, time and duration approved by COTR, The VA is aware that limiting shutdowns extends the total project duration, however, it also minimizes impact to clinics and patient care.*
2. **Question:** Drawing 8 of 16 – General Note 2: Is the temporary outdoor floodlighting intended to be mounted on the fencing or on the existing building.
 - a. **Reply:** *Mount the temporary lighting on the existing building, remove at completion, paint and patch disturbed areas to match.*
3. **Question:** Drawing 8 of 16 – General Note 3: What is the current Arc Flash PPE Requirements of this equipment/building 21?
 - a. **Reply:** *It is the contractor's responsibility to calculate the arc flash PPE per specification section 260573 Coordination Study. The contractor shall follow NFPA 70E when exposed to energized live parts. Specification Appendix 2 and 3 list short circuit contributions.*
4. **Question:** Drawing 8 of 16 – General Note 5.5.1: Please confirm that shutdowns/cutovers will be allowed from November 1 to May 31.

- a. **Reply:** *Shutdowns and changeovers allowed from November 1 to May 31. The VA is aware of this requirement and how it causes extended project duration.*
5. **Question:** Drawing 8 of 16 – General Note 5.4: Is it anticipated thru this design that it will be required to utilize all five generators for every Sunday shutdown/cutover or is it discretionary per shutdown/cutover session?
- a. **Reply:** *the VA requires that the existing standby generators be running for each shutdown and change over.*
6. **Question:** Is the VA responsible for verifying all loads that will be affected by the shutdowns/cutovers versus which will be on one of the five generators?
- a. **Reply:** *The VA will provide attendants to observe generator operation however; the contractor shall start the generators prior to each event and shut them down immediately after. The VA will verify all existing loads from their existing generators.*
7. **Question:** Is there generator fuel consumption data available for each of the five generators?
- a. **Reply:** *Allow 50 gallons per hour for each 750 kW unit and 150 gallons per hour for each 2000 kW unit.*
8. **Question:** Drawing 8 of 16 – General Note 6.6.3: Will ComEd be providing protective covering/scaffolding over their equipment so our electrical work can be accomplished?
- a. **Reply:** *The contractor is required to plan the work with ComEd to minimize disruption to the utility. Where required ComEd will provide protective measures inside the ComEd vault at no cost to this contractor.*
9. **Question:** Drawing 8 of 16 – Is weekday work only allowed in ComEd vault or is weekends also allowed?
- a. **Reply:** *For other than shutdowns, ComEd crews have told the VA that they will only work regular business hours.*
10. **Question:** Drawing 8 of 16 – General Note 6.6.3: It states that “VA will contract ComEd direct for ComEd watchman”. General Note 6.6.4 states “The contractor shall coordinate with ComEd to provide access and watchman”. Which statement do we follow?
- a. **Reply:** *Both statements apply: ComEd charges will be paid by the VA however; the contractor shall include the detailed coordination effort with ComEd for the work. The contractor is required to plan the work with ComEd to minimize costs to the VA. The VA will only participate in the coordination effort between the contractor and ComEd as an observer. It is important to note to the contractor that ComEd coordination is paramount in maintaining the construction duration. The VA cannot influence the utility to compensate for weak or ineffective planning and communication by the contractor. Include field meetings with ComEd, this coordination cannot be accomplished exclusively be email.*
11. **Question:** Drawing 8 of 16 – General Note 6.6.7: Please confirm that the estimated electric bill refers to JBVA. Further explanation is requested on this statement.

- a. **Reply:** *Estimated electrical billing occurs when the revenue instruments (glass globe electrical meters) are not in service. The contractor shall coordinate with ComEd metering so utility revenue meters are active (permanent or temporary) as much as possible.*
12. **Question:** Drawing 8 of 16 – General Note 6.6.8: Please confirm that the additional ComEd charges apply to JBVA.
- a. **Reply:** *Refer to reply of item 10 above.*
13. **Question:** Drawing 8 of 16 – General Note 11: What is engineer's definition of "Continuous fire watch if fire alarm system is off for 2 hours or longer"?
- a. **Reply:** *Attendant in the area of construction continuous with the training meeting the Contractor's safety plan. The intention of this requirement is not to cause duplication of effort when contractor's workers are normally present.*
14. **Question:** Drawing 8 of 16 – General Note 9: What color to be utilized for painting of the 4160V conduits?
- a. **Reply:** *Section 260533 section 3.4 orange.*
15. **Question:** Are we to paint existing conduits or just our new installed conduits?
- a. **Reply:** *Paint and label all 4160V new and existing, including crawl space. However, continuous painting of the existing 4160V conduits in crawl space is not practical, include color banding every 10 feet.*
16. **Question:** Drawing 8 of 16 – General Note 18: Please confirm that our pricing is to include dewatering of 12 various located manholes only to facilitate our work and not as a separate contract requirement.
- a. **Reply:** *The work includes tracing the existing VA owned buried 4160V lines that are routed throughout campus in VA owned manholes. Include dewatering these manholes. Utility owned manholes and utility owned lines are not part of this requirement.*
17. **Question:** Drawing 8 of 16 – General Note 8: Does this mean that all raceways in Building 21 are to be of the rigid type regardless of system?
- a. **Reply:** *All conduits for any voltage including fire alarm, signal, control etc. shall be threaded rigid in building 21, any place outdoors, or in ESG.*
18. **Question:** Drawing 9 of 16 – Keynote 8: Will the contractor be provided an existing CAD site plan depicting the locations of existing manholes to create this extensive as-built survey drawing?
- a. **Reply:** *After award, the VA will provide a cad file site plan that is known to be inaccurate. This task is to field trace these circuits and create accurate record documentation.*
19. **Question:** Drawing 10 of 16 – Keynote C: What do these conduits currently feed?
- a. **Reply:** *Include in the work tracing all existing conduits per drawing 10 of 16 – Keynote C. These conduits are control, branch circuits and power circuits described elsewhere on the plans.*

20. **Question:** Drawing 10 of 16 – Keynote F: What is considered as acceptable protection of the existing electrical equipment?
- a. **Reply:** *Plastic overlay is not adequate protection from the construction activities. The contractor shall include temporary partitions, heat, positive pressure fans to eliminate dust, water and vapors contamination of the electrical equipment to the satisfaction of the COTR.*
21. **Question:** Drawing 11 of 16 – Keynote 4: What are the spare parts listed to go in this cabinet?
- a. **Reply:** *Specifically for note 4 on sheet 11 of 16, this cabinet is intended to be of adequate size to contain the miscellaneous spare parts that are furnished with the switchgear. No specific list of spare parts for this requirement that are not already listed elsewhere.*
22. **Question:** Drawing 11 of 16 – Keynote 8: It states to reuse existing ComEd Vault thru the wall opening and alignment yet Keynote E on drawing 10 of 16 states to patch these same openings after removal of the feeds. Which are we to follow? Please confirm that extending of existing wireway inside ComEd vault is by others.
- a. **Reply:** *The position of the wall penetrations and their alignment is a function of the switchgear selected by the awarded contractor. This alignment is associated with the wall penetrations as well as the alignment of the cable tray in the ComEd vault. This contractor will be responsible for adjusting the cable tray inside the vault as well as patching existing wall openings and creating new. ComEd will only provide watchmen and de-terminate / re-terminate the medium voltage cables. All work in and on the ComEd vault is to be included by this contractor.*
23. **Question:** Drawing 16 of 16 – Part 3, Keynote 4.1.1: Will these temporary generators need to be 4160v?
- a. **Reply:** *Contractor may connect on transformer primary or transformer secondary. Reminder, the contractor must provide overcurrent protection for the temporary generator and the generator cables as required by code.*
24. **Question:** Where can these temporary generators be located?
- a. **Reply:** *on paved area shown on sheet 9 of 16. Special care to be over 50 feet from building air intakes.*
25. **Question:** Is there load demand data available for the VBA and Parking Garage so as to properly assess the generator size and fuel consumption?
- a. **Reply:** *Not less than 65% demand on the transformer rating shown on sheet 14 of 16 for Parking Garage and VBA. To validate, the contractor shall meter the loads for 7 days to verify exact load and submit report to the VA.*
26. **Question:** Drawing 16 of 16 – Part 3, ESG Switchgear. Drawings state “factory refurbish and test all existing OCP’s in ESG swgr”: Please further define “refurbish”. What refurbishment is expected? This work will require the said OCP to be brought off line and most likely removed and

refurbished off site. Is this the intent? Is there a technical approach detailing the method of rerouting or temporarily feeding each of the four loads during this time?

- a. **Reply:** *Refurbishment is defined: as cleaning, lubricating, high current testing, contact resistance testing and insulation resistance tests. In addition, align contacts and buff / tighten stab connections. Adjust setting to match the coordination study. The VA understands that the OCP will be taken off site for the refurbishment. The contractor is responsible for minimizing disruption to ESG and their co-generation service function. Sequence the refurbishment so temporary cabling is not required.*

27. **Question:** There will be extensive work in routing conduits in the existing building. Will the majority be located in the crawls spaces? If so, is this considered a “confined space” area and require the protocols of OSHA confined space installations?

- a. **Reply:** *the work in the existing main facility buildings shall be in the crawl space. Routing above the lay in ceilings is not acceptable. The contractor must follow OSHA protocol for confined space including respirators and related PPE.*

28. **Question:** Does the new 5kv switchgear need to be arc resistant and rated 63ka.

- a. **Reply:** *Include Arc Resistant construction, standard construction is not acceptable. Arc Plenum shall be provided by the switchgear manufacturer. Built in place metal ductwork or similar used as Arc Plenum is not acceptable. Refer to detail 21 on sheet 12 of 16 and the riser diagram on sheet 14 of 16 for additional information.*

29. **Question: Can the work be surface mounted in ESG Building?**

- a. **Reply:** *No exposed conduits in the lay-in ceilings of the first floor of the ESG building. Conduits can be mounted externally to the building on free standing framing channel or trusses. Attaching metal framing channel to the ESG, ComEd or Building 21 for clamping conduit is not acceptable. Penetration locations are to be identified by the contractor and submitted to VA for review before installation. At the completion, patch and paint wall to match. No additional requirement to paint conduits not already identified elsewhere.*

30. **Question:** Where does note L apply on sheet 10 of 16?

- a. **Reply:** *The medium voltage cables that start at the ComEd owned transformer and continue into the service switchgear in building 21.*

31. **Question:** Sheet 10 and 11 of 16 show a ComEd exhaust fan, describe any work.

- a. **Reply:** *Remove the existing feed. Provide new 60A (#6) feed to the new normal panel in building 21. Coordinate the final configuration during construction planning. Reuse the existing disconnect and starter at the exhaust fan. No changes in on/off control, fan size, etc.*

32. **Question:** Sheet 3 and 4 of 16 show door 005 conflicting with overhead piping note A19 when the door is fully open.

- a. **Reply:** *Refer to detail 21 on sheet 12 of 16 for additional information and elevations. However, the final position of the door shall be field coordinated with selected switchgear, in*

addition provide a removable transom and shorter operable leafs. When needed in the future, this door can be disassembled for equipment removal. This door is intended to be normally used as a required exit.

33. **Question:** Is a system integrator required to interface between the medium voltage protective relays, medium voltage switchgear control, medium voltage remote control stations and the Advanced Utility Metering system?
- a. **Reply:** *It is the contractor's responsibility to deliver a fully functional system including hardware, firmware, software, startup, and acceptance testing. Communication converters are not desirable.*

END OF ADDENDUM NO. 2