The following RFIs are incorporated and made part of this solicitation:

1. Sheet CS101, PV Plan and Profile shows the rerouted irrigation being in an 18" PVC Irrigation Pipe. Detail 3 and others on CS401 indicate a 24" Concrete Irrigation Pipe. Which is correct?
   Response: Please use 18" PVC.

2. Sheet CS101, PV Plan General Site Construction Note "A" tells us to install security fencing as indicated. Note "B" instructs to install design-build driving range netting. The security fencing stops where the driving range netting begins and does not provide a fully enclosed and secure area around the PV array. Is it the government's intent to use the driving range netting in lieu of the security fencing or should the security fencing be installed parallel with and inside of the driving range netting? Please provide sketches or revised drawings to show fencing layout.
   Response: The security fence shall end where it intersects the driving range fence. See attached sketch #1 showing in yellow where the new security fence and pink where the driving range fence shall be located. The balance of the fencing is existing.

3. Solicitation Page 11 of 60, Paragraph 1.3, a. Past Performance, i. Sub factor 1 states that we are to submit 3 projects from the past 3 years. Also stated in the top paragraph of Page 12 of 60 that only 3 projects will be evaluated. However, Page 11 of 60, second to last paragraph states "Offerors are strongly encouraged to include information on all VHA projects……. within the past 5 years." Is it 3 projects in 3 years or all VHA projects in 5 years? Which is correct?
   Response: i. Sub factor 1 – Previous Contracts/References – First sentence should be changes from 3 years to 5 years. 3rd paragraph should be changed to remove the word "all". The number of projects is 3 projects within the last 5 years.

4. Solicitation Page 13 of 60 regarding Resumes – Second paragraph states "Resumes shall be no more than three pages……." Last paragraph "Page Limit" above Sub factor 4 states…. "No more than six (6) pages per project shall be submitted – this includes photos as well as written material." Resume instruction Item "H" tell us to include ALL (emphasis added) previous government projects. Are we to provide up to 6 pages of project information for every federal project an employee or subcontractor employee has worked on in their history? Very unclear what the VA is really needing here. We assume the government only wants us to provide what is described in "H" as fits within the resume 3 page limit. Is this correct and if not, what are we to provide?
   Response: Resume portion will include information from A.-G in which the limit is 3 pages. Part H is hereby removed, as well as the 6 page limit referenced in the next paragraph.

5. Per Solicitation Page 10 of 60, Paragraph B, e., iv., says "Bid Guarantee Security – Submit original with CD containing proposal." What does this mean? Does the Technical Proposal CD need to contain a scanned copy of the Bid Guarantee Security too? Will the hard copy original in the Price Proposal be sufficient?
   Response: Provide a hard copy of the bid guarantee with the proposal.

6. Sheet CS101, PV Plan shows security fencing but due to the various line types used to indicate the fencing, it's unclear where exactly the fencing is to be installed and whether there are any gates. Can the government please show where the fencing and gates are supposed to run, specifically around the array's east boundary and the PV Inverters and Generator area?

Response: Please refer to the attached sketch #1.

7. The “Not to Scale” Detail 4/CS501 shows the over-excavation, structural fill importing and compaction at the solar panel design-build support/ballast system. We assume this detail instructs to strip 18” of over-expansive soil, import and place 6” of compacted ¾” minus structural fill covered by 12” of topsoil in preparation for seeding. Is this correct?
   Response pending further research

8. Detail 4/CS501 instructs to over-excavate 18” to unyielding subgrade. We assume that if we must excavate more than 18” to find approved firm un-yielding subgrade, that this additional work would be added to the project via contract modification change order. Is this correct and if not, how will the contractor be compensated for unforeseen over-excavation?
   Response pending further research

9. Sheet AD101, Demolition Note 15 instructs to see addition demolition on Sheets M101, E001 and S101. We cannot locate these sheets within the project documents. While M101 may mean MH101 and S101 may mean SS101, there’s nothing close to demolition on Sheet ES001. Are we missing sheets with demolition shown or are the referenced sheet numbers incorrect?
   Response: The referenced sheets in demolition note 15 shall be changed to read 231-MS101 (page 33), 231-ES002 (page 40), and 231-SS101 (page 30).

10. Details 4/AS301 and 2/AS402 show we are to install R30 attic and R19 and R5 wall insulation. Is there any existing insulation in Building 231 and if so, what is it and are we to remove it or leave it in place, supplementing it for the overall R-values above?
    Response: There is some blown in insulation in the attic which shall be removed by the contractor. No known insulation in the existing walls, however if it is discovered during demolition it shall be removed by the contractor.

11. Structural “SS” Drawings do not show any structural steel or structural steel framing. Keeping in mind the PV Array supports are design-build and Section 05 50 00 covers the steel work in the drawings, what work does Section 05 12 00 Structural Steel Framing apply to? Should Section 05 12 00 be deleted from the bid documents?
    Response: Specification 05 12 00 is only there to cover the anchor bolts and hold downs.

12. Detail 2/AS402 Wall Detail, in addition to the 15# Asphalt Saturated Felt shows a continuous air barrier behind the new fiber-cement shingles and over the 1” rigid R5 insulation. There are no specifications or installation requirements for this. Typically these are not installed onto foam board. What type of air barrier system, if any, is required and how is it to be applied? Specifications please.
    Response pending further research

13. Sheet AS501, Note 4 states we are to provide security window screens with the design being based on the Kane Innovations S-VAN-O. Typically we would try to provide the basis of design products but Kane (Sterling-Dula) appears to have closed both their business and their website so no basis can be established for the design. Are there any other manufacturers and models that would be acceptable? What type of hinges? How do the operable screens latch or lock?
    Response: Window guard specs are on page 8 of section 055000 Metal Fabrications. Since design, the original manufacturer Kane appears to have been bought out by Sterling-Dula, however the window guard that the design is based off of is still available. Link to website: http://www.sterlingdula.com/security-screens/level-6-medium-security-screens/van-guard. The design is based off of model S-VAN-O (Operable side hinged). Contractor also has option to submit a similar product for approval.

14. We are required to install sump pumps in all power manholes per Detail 3/ES504. We assume this to only include new manholes installed as part of this project. Please confirm no existing manholes are to be retrofitted with sump pumps.
    Response: (Detail should be 6/ES502) Provide Sump Pumps in all new power manholes and one existing power manhole indicated on drawing 231-ES103 grid E/5.

15. Base bid has Resinous Floor Coating being applied to the floor of Building 231.Where specifically does this get applied? Is it just the floor or do we apply it to the housekeeping pad (at exposed or the whole pad?), the concrete trench beneath equipment? Please clarify.
    Response: The resinous floor coating will be applied to the floor in building 231 this includes the exposed areas of the housekeeping pad but NOT the trench beneath the equipment.

16. Drawing Sheet CS102 and General Construction Note 1 has the contractor installing a new concrete curb, gutter and driveway approach. No demolition or site preparation is shown in the drawings as be necessary prior to the driveway approach installation. Is there any concrete or asphalt sidewalk saw-cutting and/or other demolition required before the new concrete is placed?
    Response pending further research

17. The “Not to Scale” Detail 4/CS501 and Landscape Drawing notes indicates the over-excavation, structural fill import, topsoil and grass seeding at the solar panel design-build support/ballast system. Are we to strip, structural fill, topsoil and seed the entire PV array field and if so, what are the limits of this work? Is there any structural fill, topsoil and/or seeding outside the solar array field and if so, where?
    Response pending further research

18. Section 32 90 00 Planting, 3.12 Seeding, indicates the Seed Mix application is to be done by spreader or seeding machine and raked, rolled and watered followed by application of wood cellulose fiber mulch. Question: Specification says wood mulch is applied at 200 pounds per

acre. Drawing LS101, Specifications for Site Preparation and Seeding of PV Field, Note D says mulch is to be spread at 2000 pounds per acre. Which is correct?
Response pending further research

19. Section 32 90 00 Planting, 3.12 Seeding, indicates the Seed Mix application is to be done by spreader or seeding machine and raked, rolled and watered followed by application of wood cellulose fiber mulch. To help lower costs, is it acceptable to use a hydro-seed application of seed over the topsoil in lieu of specified seed application and if so, are there any specific hydro-seeding requirements we should be made aware of?
Response pending further research

20. Drawing cover sheet indicates where the contractor trailer and laydown area is. Where will the contractors connect for power to the construction trailer and worksite, and what is the distance from the trailer area?
Response pending further research

21. Drawing Sheets ES002 Project Summary Note 4, ES102 Flag Note 5 and other locations in the bid documents indicate we are to price a 1.2MWDC (1,200 KwDC) Photovoltaic System in our base bid. Price Schedule Item 0004 and Section 01 00 00, 1.2, D say to install a 650 system in lieu of a 1,300 KwDC system. Which is correct for the base bid, 1,200 KwDC or 1,300 KwDC?
Response pending further research

22. Concrete encased ductbank conduits are indicated from the Generator and Inverter pads to Bldg. 231 and the Load Bank and on to the existing manhole near Crater Lake Drive indicated by Flag Note 10 of Sheet ES103. Do any other underground conduits need to be encased in concrete ductbanks?
Response pending further research

23. Is the Photovoltaic System permitted through the Federal Government or is there another jurisdiction that permitting must be obtained through? What, if any, are the permitting requirements?
Reponse: No permitting required.

24. Has Pacific Power Corp been presented with this project for analysis of effect on the Pacific Power grid and if so what is the status and what were the results?
Response pending further research

25. Section 48 14 00, 1.6, A. states; Where proposed system shall be prepare appropriate applications and submittals to Contracting Officer's Technical Representative (COTR). Where proposed system shall be connected in front of the meter and tied directly to the grid, prepare appropriate applications and submittals to the COTR. Question: Are there any applications and/or submittals that must go to the COTR that are not specifically listed in the specifications?
Response pending further research

26. Section 48 14 00, 1.6, A. states; In all cases, the local utility may have a requirement for further electrical studies, which may include power factor analysis, short circuit protection studies, grid wiring adequacy or capacities of upstream switches or transformers. If such requirements exist and are required by said utility, these requirements shall be fulfilled by the Contractor. It appears the government is trying to hold the contractor to paying for unknown and unquantifiable utility provider costs. These costs are typically paid for by the Owner when and if they come or often an allowance for them is put in the RFP to be included in contractor pricing. Question: How are contractors to establish costs for further electrical studies, power factor analyses, short circuit protection studies, upstream power grid capacity and adequacies for its wiring, switches and transformers?
    Response pending further research

27. This project will require at a minimum a Level 2 Interconnection Agreement (capacity of 2MW or less) with utility power provider Pacific Power. Occasionally Pacific Power reviews and determines that a level 3 interconnection is necessary resulting in much higher costs and also project delay as a result. Experience dictates that the timeline and cost of Pacific Power studies and requirements for level 3 are unknown until after the application is submitted. Questions: 1) Will the government agree to provide bidders a budgetary allowance for a Pacific Power Level 3 Interconnection Agreement? 2) If the project is delayed by Pacific Power, will the government provide a contract completion time extension to accommodate the Pacific Power delay?
    Response pending further research

28. 2Per 48 14 00, 2.6 WIRING SPECIALTIES, B. 1. Indicates that for Conduits and Raceways, they must be solid steel conduit listed per UL 6, UL 1242, UL 797 (as appropriate). We assume this is for above ground conduit installations and that all underground and through concrete slab installations may be Schedule 40 PVC conduit. Is that correct?
    Response pending further research

29. Per 48 14 00, 2.7 DC-AC INVERTER, A. Requires a stand-alone utility-interactive, pore combined capabilities. In order to have a standalone inverter activate, a battery system or generator producing a clean AC sign wave is required. Questions: 1) Is it the intent of this project that the Solar PV system stays active with loss of utility power? 2) Are the two (2) 1500KVA generators to be activated on loss of utility power and act as the AC source to maintain the Solar PV production?
    Response pending further research

30. Per 48 14 00, 2.7 DC-AC INVERTER and Drawing 231-ES400 shows larger central inverters. Using smaller string inverters installed will provide several benefits, lower initial cost, lower replacement cost and much less impact on energy production if one goes down. Small string inverters could be utilized on the backside of the racking structures in the solar array field. As

this is a design-build PV System, may the design include smaller string inverters instead of larger central inverters as indicated on 231-ES400?
Response pending further research

31. Section 48 14 00, 2.10, C, 2. Specifies a Precast Concrete Ballast however the support system is identified as Design-Build. Questions: 1) If design and engineering support it, are cast-in-place concrete ballast allowed? 2) If design and engineering support it, are driven or helical posts allowed in lieu of Precast Concrete Ballasts?
Response pending further research

32. Per 48 14 00, 2.11, D. Datalogger/Monitoring System, String Level Monitoring; Specification may be a copy of previous projects spec with rooftop mounted PV panels. String level DC monitoring is VERY expensive. Is String Level monitoring really required on this project?
Response pending further research

33. 48 14 00, 2.1, A and 2.5, A, B, C, D, E. indicate a there is to be a battery backup system. Is a battery backup system required as part of Section 48 14 00?
Response pending further research

34. Section 48 14 00, 2.1, B.; Questions: 1) Has the government performed or contracted for an environmental impact study for this project and is so, can the government provide it? 1) Will the COTR or local environmental entities require the contractor to provide environmental impact studies which may include, for example, effects upon wildlife and if so, what are those requirements so that a reasonable budget may be included for this work? 2) Is the Contractor required and how shall the Contractor determine which entity has jurisdiction over environmental matters and shall make appropriate inquiry and comply with all applicable regulations?
Response: The VA SORCC, White City has determined that neither an Environmental Assessment nor an Environmental Impact Statement is needed. A NPDES is required from the State of Oregon.

35. Drawing 231-ES106 – What is the intent of the F/O (Fiber Optics) to the PV? Is this to support the Internet Based monitoring system per 48 14 00, 1.2, C?
Response pending further research

36. Drawing 231-CS101 shows the profile of the 18” PVC irrigation line. However, the details in drawing 231-CS401 shows 24” concrete irrigation line. Is the new irrigation line an 18” PVC pipe or a 24” concrete pipe?
Response: See response to RFI #1

37. Drawing 231-CS101 Note 7 shows 6” PVC service from turn-out structure. However, detail 2 on drawing 231-CS401 shows 8” pipe. Is the new service line 6” or 8” PVC.

Response: Revise drawing 231-CS101 Note 7 to read: 7. Install 250 LF OF 8" PVC SERVICE FROM TURN-OUT STRUCTURE TO EXISTING (USE CLEAN-OUTS AND FITTINGS AS NEEDED FOR TRANSITIONS). CONNECT TO EXISTING W/FLEXIBLE COUPLING. VERIFY LOCATION AND INVERT PRIOR TO CONSTRUCTION.

38. There are significant amount of rubbish on the project site. Is the contractor required to remove and dispose of the rubbish?
    Response: The Contractor is required to remove and dispose of the rubbish on the project site. See further information provided in response to RFI #42 below.

39. 231-CS501 Detail 4 Solar Panel Detail shows 6" of ¾" structural fill. Drawing 231-LS101 requires seeding of the PV field. Are we to place wood cellulose fiber, fertilizer and seeds on top of structural fill?
    Response pending further research

40. RFI No.1 – We did not see a soil boring report included in the solicitation package as annotated in 01 00 00 page 14 Section 1-12. Is there an available report you can provide? Please advise.
    Response: Soils report provided in Amendment A00003

41. Spec Section 26 05 41 Underground Electrical Construction, Section 2.3 Ducts shows Sch 40 PVC conduit. Spec Section 48 14 00 Solar Energy Electrical Panel Generation System, does not provide specs for underground conduits. Can we use Sch 40 PVC in running underground conductors for the solar system?
    Response: Yes, sch 40 PVC is acceptable, and subject to the installation requirements of Section 20 05 41.

42. In regards to current onsite existing spoil piles, are any waste profiles available or any reason for the soil to be hazardous? Please provide any analytical testing results for the spoils piles, demolition or excavation areas, etc. that may affect the final disposal of the material scheduled for removal.
    Response: No analysis has been performed on the spoils piles, however, based on historical knowledge of the material deposited at this site, no hazardous materials are known to exist. For purpose of bidding, contractors shall assume that no hazardous material requiring special handling or disposal will be found. If during removal, hazardous materials are exposed, necessary precautions will need to be taken to remediate, the extra cost of which will be negotiated as a changed condition.

43. Section 32 31 13 Chain-Link Fences and Gates specifies the security fencing and swing gates around the PV field. Drawings do not show any gates as specified in Specification Section 35 20 16 Fabricated Stainless Steel Slide Gates. Where is this section to be applied to this project for upward opening gates? Should this section be deleted from the specifications?
    Response pending further research

44. There are large piles of irregularly shaped dirt and debris that have been dumped over time in the area of the PV Field, Inverter and Generator areas. Project documents require us to remove them. There is no topographical information provided to allow us to determine how much dirt/debris are there. What quantities should we assume for the dirt and what is the extent of debris that needs to be removed and disposed of?
    Response pending further research

45. We have been in contact with netting contractors for the golf driving range requirements for this project. We have provided them with the soils report in order for them to determine the length of the poles and how deep the embedment should go. However, the soils report is inadequate since the depth of the soil investigated only went up to 50" deep. Is there any other soils report available that shows a deeper depth investigated? Please provide if available.
    Response: The Geotech report indicated dense gravel and cobbles (some mixed with silt and/or sand) at the base of each test pit. Given other aspects of the site, it's likely this dense layer continues below the 50" line, and may be quite deep. It's likely that the soils found at the termination of each pit are on the order of at least 20 feet deep, based on this site. Although the geotech report did not list allowable passive resistance the designer could use the tabulated values in the IBC for the soil types.

46. Can you confirm that Infectious Control Plans are not required for this project since the construction efforts are limited to areas away from the hospital?
    Response: Infectious control plans are required. Please note solicitation Attachment 5 - ICRA assessment.

47. 231 ES 105 Note 4 and 231 ES 504 Detail 1 – When moving Transformer "P" Note 4 intercept existing branch circuits and extend to new panel board "P". Do you want an in-ground splice box in the existing transformer location, or do you want to re-pull secondary feeds?
    Response pending further research

48. 231 ES105 Note 3 and 231 ES 504 Detail 1 – Primary feed for Transformer "P" do you want to re-pull the feed back to transformer "O"?
    Response pending further research

49. Are we to turn over the old transformers to the VA or do we dispose of them?
    Response: Dispose of them

50. Section 01 81 11 Sustainable Design Requirements appears specific to Design-Build solicitations and a contractors post award design efforts. It lists 22 different design criteria submittals. This project is fully design with the exception of the PV ballast, frame and manufactured off the shelf panels and inverters. Conduit and wire is specified in the electrical specifications. Will the government delete this section from the specifications entirely or radically revise it to apply the PV concrete ballast and frames only?
    Response pending further research

51. Soils Report provided in Amendment 3 is missing the map of the test pit locations. Where specifically was each of the 7 test pits located within the project boundaries?
    Response pending further research

52. Factor B, Technical and Management, Sub factor 3, directs to provide a resume for the Commissioning Manager (CxM). Can either the full time onsite Superintendent or Quality Control Manager perform CxM duties?
    Response: The Commissioning Manger is defined as: Commissioning Manager (CxM): A qualified individual appointed by the Contractor to manage the commissioning process on behalf of the Contractor.

53. "Regarding appropriate wage rates per the Davis-Bacon Decision, specifically applicability to workers on the Solar Racking Installation Team: Some duties* of the Solar Rackers appear to fall under: Carpenters: Metal stud installation and form work only.....$ 32.61 14.44 While other duties closer resemble: Laborers: GROUP 1.....$ 26.09 12.85 Or is it considered structural Iron Work? IRONWORKER (Ornamental and Structural).....$ 34.12 23.04 *The Solar Rackers primarily erect the metal framing to support the photovoltaic modules. Solar Rackers may also assist with concrete forms and photovoltaic module handling and staging. Is it acceptable to pay the same worker the rate according to the specific task of the day, or should the same worker receive the same rate for the duration of the project? Since this is a large labor cost center we'd like to make sure we have the appropriate rates prior to bidding
    Response: Solar racking as it pertains to installation of metal framing and or installation of rebar for footings would fall under the IRONWORKER category. The worker would be paid per their Union Contract or per task they perform as determined by the Department of Labor.

54. Sheet 231-LS101, Specifications for Repairing Disturbed Areas. We are to repair and reconnect any irrigation systems impacted by work of this solicitation. This is impossible to quantify and price without Irrigation As-built Drawings for all areas within the project boundaries where excavations and site preparation will occur. Will the government provide Irrigation As-built Drawings and if not, how should the contractor include accurate pricing for this work?
    Response pending further research

55. Sheet 231-LS101, Detail 1. Tree Protection Detail shows the contractor putting soaker hoses spirally around all the existing trees. These trees are very well established. Are these trees being irrigated now? Where are we to connect for the watering system for all tree locations? It appears this requirement does not apply to this project. Will the government waive this requirement?
    Response pending further research

Supplemental Instructions to Offerors:

1. Construct generator pad foundation per attached Sketch #2.
2. Spec 08 71 00.2.12.A. The color is listed as 626. Change color to 612.