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QUESTIONS AND ANSWERS #2

Question: Horizontal Cabling Spec 271500 does not reference any Com Rooms. How many Com Rooms are there and where would they be located?

Answer: There are four comm rooms. They are shown on the architectural floor plans A211, A212, A221, A222.

Question: Horizontal Cabling Spec 271500 does not reference any patch panels, is that correct?

Answer: Patch panels for telephone and data communications will be provided by NASA.

Question: Are the backbone connections and wiring located in another Spec if so can you reference Section?

Answer: Backbone will be provided by NASA.

Question: Mecho Shade B1 Controller data locations are not in Horizontal Cabling Spec 271500 but are on Drawing E511, E512, E521, E522 Plan Note 7. Does the Mecho Shade B1 Controller pertain to Horizontal Cabling Spec 271500?

Answer: Refer to electrical drawings and specification section 260523 for control wiring.

Question: Do the Fire alarm Data connections (E511 Note 7 of Drawing) pertain to Horizontal Cabling Spec 271500?

Answer: No, refer to fire alarm drawings and specification section 283111 for information on the fire alarm system.

Question: Section 064023 2.6 solid surface countertops is specifying "Icestone Amber Pearl" and "Dupont Zodiaq Terra Collection". The Finish schedule A105 is scheduling SSU-2 as "Icestone Storm Cloud" Please clarify where the Dupont Zodiaq is to be used or if Icestone Storm Cloud is to replace the Zodiaq material.

Answer: The Basis of Design products are listed on Sheet A105 and in the specification sections. Icestone is the Basis of Design solid surface material. The Dupont product is an acceptable alternate.

Question: Section 093000 1.2A specifies water-proof and crack isolation membrane for thin-set tile installation, paragraph 3.71 specifies TCA installation method

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W245 which does not include the use of these membranes. Please clarify where these membranes will be required.

Answer: Installation to be water-proof and crack isolation membrane for thin-set installation.

Question: was just reviewing the plans for the upcoming RFP, and have been unable to find anything in the preliminary notes that indicates if Solar PV will be on the project, with the exception of a not on one of the Electrical drawings calling out 16.5kW of BIPV modules. The Prelim RFP only references solar thermal. Can you confirm there will be solar photovoltaic (PV) on this project please?

Answer: The project does have a small amount of solar PV on the project. This work is included as part of Option Item 1, which replaces the ceramic frit pattern glass panels at the roof on the north side of the north wing with BIPV's. This work is shown on drawing A107 & E111 and is described in spec section 136500, Photovoltaic Systems.

Question: I would like clarification on exterior bldg. address numbers shown in plans. Pg. A301 shows a notation that points to the bldg. numbers "N232" referencing Page A641 for more info. Pg. A641 does not have any info. on bldg. letters. Please provide the proper page number for info. on the bldg. letters.

Answer: The correct reference is Detail 9/A703.

Question: Page A811 shows drawings for sign type but is missing materials and method of fabrication. A graphic schedule for the signage program was not found. Location plans for the signs and quantities were not found. Please clarify.

Answer: See Specification Section 101400 for material and fabrication information. Refer to A011/!012 for room description and count.

Question: EXTERIOR FRAMING. Sheet S007 shows framing details for the exterior wall system showing gage, size, spacing, attachments, etc. (size of studs on structural's conflict with size on Architectural). Section 05400, and section 074216 call for design, engineering, and structural calculations to be prepared by a structural engineer. Are we to design and incorporate the details on sheet A007, and design? Can we design on our own and ignore sheet S007 as long as we meet the design criteria shown on sheet S001?

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- Answer: Exterior wall system design shall be performance based per Specification Section 05400. The engineering calculations to be prepared by contractor's structural engineer.
- Question: INTERIOR FRAMING. Sheet A101 calls for 20 gage studs. Sheet A761 calls for 14 gage slotted track, 16 gage studs, expansion anchors, 18 gage studs @ grab bars, etc. Please clarify interior framing requirements with regard to size, gage, spacing, attachments, etc. for walls, ceilings, and soffits.
- Answer: Follow stud size per Sheet A101 for non bearing interior wall; however, follow stud size, slotted track size, and stud at grab bars per sheet A761 because of the special design.
- Question: Opening #'s D107, D111A, D114A, D211 in Door Schedule are non-rated openings. However, the wall configurations for these openings are rated. Please confirm whether these openings are non-rated as scheduled.
- Answer: For Doors D107, D111A, D114A, D211 in Door Schedule provide a 45 minute fire rated door and frame installation and install a door closer meeting specification requirements.
- Question: Is there anyway we can change the Past Performance criteria from 50% complete or completed in the last three years to 50% complete or completed in the last five years in order to show our most relevant fully certified projects, as it takes some time to get actual certification?
- Answer: The evaluation criteria for past performance remains at the last three years. Offerors may reference buildings pending certification along with certified LEED buildings if necessary.
- Question: Specification Section 014500, 3.2A, 2a requires that the GC have a full-time individual devoted exclusively as the Quality Control Manager. For a project of this size and complexity, this requirement seems excessive. Please confirm this requirement.
- Answer: The Quality Control Manager may perform other duties, provided they do not present a conflict of interest with his primary responsibility to provide a finished product that complies with all contract requirements. It is important that the Contractor's proposal clearly describes the duties of the Quality Control Manager and the amount of time that will be allocated to this position.
- Question: Please advise if the LEED Manager, Commissioning Agent and the Safety Manager have to be individuals devoted to those duties or if they would be

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allowed to assume other project responsibilities as well. There appears to be no stipulation in the documents prohibiting this assumption.

Answer: The LEED Manager, Commissioning Agent, and Safety Manager may perform other duties. As required by L.19(a)2.A. of the solicitation, make sure to describe the amount of time allocated to a function if personnel are part-time or have more than one area of responsibility.

Question: Please advise if the GC is required to provide anything other than a jobsite trailer for the Owner - e.g. equipment, utility connections, utility fees, etc. (Ref: Section 01500, 2.2B)

Answer: The Contractor shall provide electrical power connections, water and sanitary sewer connections for the trailer they provide for Government use.

Question: Section 013233, 2.1A requires both a time lapse video camera and a remotely-controllable view camera. Paragraph 2.1B seems to require the remotely-controllable view camera to be connected to a pass-word protected web site. Please confirm this requirement and advise if these cameras can be mounted on adjacent buildings from which power and data feeds can be obtained. Also please advise if the web site is an Owner web site or if the GC is required to establish one.

Answer: One camera may be used, provided it can meet all the specification requirements. The camera can be mounted on the roof of the existing building directly north of the project site. Power is available on this building roof, the data connection is a wireless cellular connection. The requirements for this video camera were developed based on an existing commercial service we have used on previous construction projects. One potential provider is listed in the specification paragraph under "Basis of Design."

Question: The second sentence of 01100, 1.21A, does not seem to apply to this project.

Answer: Correct. The Government will not occupy this building during construction. Dust tight barriers closing off the work area from Government occupied areas are not required.

Question: Section 013200 implies that the schedule must be cost loaded and that payments will be made through the CPM schedule. Please confirm.

Answer: The Government will make monthly progress payments. Payments will be made based on an agreed upon schedule of values for the contract work items and the Contractor's progress on those work items.

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Question: Section 013200, 2.2J, requires "...a cost correlation line, indicating planned and actual costs." This requirement does not seem appropriate for a lump sum contract. Please advise.

Answer: Correct. Paragraph 2.2J in Specification Section 013200 will be deleted.

Question: Please advise what rates will be charged to the GC for electrical and water consumption or if the GC must contract through the utility providers for direct service.

Answer: These utilities will be provided to the Contractor at no cost. There are no connection fees for these services.

Question: Please advise if telephone and data connection can be obtained through the existing campus or if the GC must go through the provider. If the latter, who is the telephone provider to the campus?

Answer: NASA provides its own telephone and data communication services. However, hardwired telephone and data connections cannot be provided to the project site until NASA pulls the backbone cable into the N232 project site. That work cannot be done until the Contractor completes the installation of the new communications duct banks and manhole installations. Until this work is completed and approved, the Contractor should arrange for wireless phone and data connections.

Question: How can I get a copy of the Architect's BIMs for the architectural and structural design, and the MEP 2D files?

Answer: The BIM is not available for prospective offerors. The selected contractor will be provided a copy after award.

Question: Can we as the general contractor and our subcontractors secure an exemption from sales taxes on the NASA N232 Collaborative Facility? If yes, should we exclude sales tax from our construction number?

Answer: NASA will not provide an exemption from sales tax on the Collaborative Support Facility.

Question: What is weighted more: Past Performance Projects with LEED Certification/goals (within last 3 years or 50% complete) -- or -- showing proposed key personnel who have worked on the projects described in the past performance factor?

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Answer: Since Past Performance is a factor in the evaluation and Key Personnel is a component of a subfactor of the Mission Suitability factor, Past Performance carries more weight.

Question: The lighting control diagram on sheet E905 shows lighting control devices and the quantity of these devices; however, the lighting plans E311, 312, 321, 322 do not show all of these devices nor the same quantities. Which plan should be used to quantify the required lighting control devices?

Answer: Drawing E905 is a job specific schematic diagram that reflects the device quantities required for the lighting design on this project.

Question: Please let us know if the Security System smart and parts (equipment, wiring and devices) are to be done by others? Division 28 does not list the specifications for security system.

Answer: The security system will be installed under a separate contract.

Question: Is there an option 3A and 3B? Please clarify.

Answer: Options 3A and 3B referenced in the plans and specification are Option 3.

Question: I am assuming the geotechnical engineering aspect of this project has been completed, if not, I'd like the opportunity to pursue this project for preliminary site/soils investigations.

Answer: Yes, the geotechnical engineering aspect of this project has been completed. We may have a soils engineer on board during construction, but that person will probably be someone from the company that did the soils report.

Question: We recently received an invitation to bid foodservice equipment via the Blue Book of Building and Construction. However, upon reviewing the website for this project, I do not see any reference to food service equipment. Typically, the specifications for this type of equipment are found in 114000 section of the specification book. Division 11 in the specification book is labeled as "not used." Please let me know if you can confirm that there actually is a food service equipment portion to this job.

Answer: Food service equipment is not part of our project.

Question: Option 1 indicates that photovoltaics are to be provided between col line X and Y. I did not see those column designations. Please clarify.

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Answer: Amendment 7 corrects Option 1 to read “between column lines 1 and 10.”

Question: Section B-1 indicates the peak output is 13,500 kilowatt hours per year. Page L-18 does not provide a peak output.

Answer: Amendment 7 corrects Page l-18 to read “13,500 kilowatt hours per year.”

Question: L101, On the Northwest side of the south wing is a symbol "B" above the Garden Walk. Can you confirm if this area is to be pavers or landscaping.

Answer: On drawing L101, the area between the building south wing and the Garden Walk is incorrectly identified with a paving symbol "B". This area is to be landscaped as shown on drawing L604.

Question: 1/ S701, The columns are shown to be cast into the concrete. Can the foundation and column be revised to a anchor bolt connection similar to 5/S501.

Answer: There is not sufficient time to evaluate alternate details prior to the proposal due date.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 1.4.M.1 – Please provide STC rating if required.

Answer: STC rating is not required.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 1.4.M.2 – Please provide OITC rating if required.

Answer: OITC rating to be 30.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 1.6.L – Calls for a mock up. Please define the scope of the mock up for this spec section.

Answer: Mock up to be one bay, both floors between two adjacent gridlines.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 2.3.A.2 – Calls for structural sealant at vertical edges. All entry drawing details showed captured vertical edges. Which is correct?

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Answer: Structural Sealant Glazing occurs at the Connector Building, only. Captured vertical edges occur at both the North and South Wings. See drawings for more specific information.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 2.3.A.1 – Calls for a thermally broken system. All drawing details depict Kawneer 1600 System that is not thermally broken. Which is correct?

Answer: Kawneer 1600 System.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: Calls for manufacturer's standard entrance doors. 2.5.A.1.a calls for thermal construction. Kawneer's (basis of design) standard entrance doors do not have thermal construction. Which is correct?

Answer: Kawneer standard entrance door.

Question: Specification Section 084113, Aluminum-Framed Entrances and Storefronts: 2.9.A – Calls for a clear anodized Class II finish. The finish schedule on Pg. A105 calls for "Smoke Gray" YL204U, which is a powder coated paint finish. Which is correct?

Answer: Finish is to be "Smoke Gray" power-coating.

Question: Specification Sections 084113 and 085113-3.4A and 3.3A Call for the Contractor to engage a qualified testing agency. Please verify this is correct.

Answer: Yes, The Contractor shall engage third party testing agency.

Question: Specification Section 084126 – "All-Glass Entrances and Storefronts" C2.2.C.c. -- Calls for the All Glass Doors to match the adjacent curtainwall glass which is Solarban 70XL. Solarban 70XL is not available in 1/2" monolithic glass. Please provide an alternate 1/2" glass for use in the All Glass Doors.

Answer: All Glass Doors to be PPG Industries, Inc.; Starphire.

Question: Specification Section 084126 – "All-Glass Entrances and Storefronts" 2.4.H -- Calls for 1" tubular door pulls as selected by Contracting Officer. If a door pull cannot be selected pre-bid, can an allowance amount for this item be provided?

Answer: Provide manufacturer's standard pull

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Question: Specification Section 084126 – “All-Glass Entrances and Storefronts” 2.7 – Describes a Stainless Steel finish. Where is this finish required?

Answer: Stainless steel finish is not a finish on the All-Glass Entrances and StoreFronts for this project.

Question: Specification Section 084413 – “Glazed Aluminum Curtainwalls” 1.4.A.3 – States that except for spandrel glazing or panels, system is reglazable from interior. The Basis of Design, Kawneer 1600 System 2 is not reglazable from the interior. Please clarify.

Answer: Kawneer 1600 System 2 is glazed from the outside.

Question: Specification Section 084413 – “Glazed Aluminum Curtainwalls” 1.5.N.2 – Please provide STC Rating.

Answer: No STC rating is required.

Question: Specification Section 084413 – “Glazed Aluminum Curtainwalls” 2.7.A – Calls for perimeter fire-containment accessory material specified in Division 07 Section Fire Resistive Joint Systems. None of the exterior opening detail shown on Pages A712 and A713 show fire safing in association with the glazing. Where are fire safing material required as part of Section 084413?

Answer: See Detail 10/A701 keynote 7.21.

Question: Specification Section 084413 – “Glazed Aluminum Curtainwalls” 2.8.F – Calls for “Factory-Assembled Frame Units and Mullions for Structural-Sealant- Glazed Curtainwall. The specified curtainwall system Kawneer 1600 System 2 is a field assembled stick system. Which is correct?

Answer: Kawneer 1600 System 2 is a stick-fabricated curtainwall.

Question: Specification Section 085113 – “Aluminum Windows” 1.6.H.1 – Calls for a mock up. Please define the scope of the mock up for this spec section.

Answer: Mock up to be one bay, both floors between two adjacent gridlines.

Question: Specification Section 085113 – “Aluminum Windows” 2.8.A – States to provide window operating systems of the type and in groups as indicated. Where is it indicated which windows are to operate in groups?

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Answer: See drawings M501 and M502.

Question: Specification Section 085113 – “Aluminum Windows”2.12.B – Calls for a clear anodized Class I finish. The finish schedule of Pg. A105 calls for “Smoke Gray” TL204U, which is a powder coated paint finish. Which is correct?

Answer: Use “smoke gray” power-coating.

Question: Specification Section 08800 – “Glazing”2.9.A – Calls for Glass Type GLF-1. This product is not shown on the Finish Schedule page A105. Please clarify if it is required.

Answer: GLF-5 is glazing provided by handrail and panel supplier.

Question: On Attachment J-10, ACH Vendor/Misc Payment Enrollment Form, can you send me the information to fill out the Agency Information section or are we to leave this blank and let NASA Ames Research Center fill this out?

Answer: Leave the Agency information section blank. NASA will complete this section.

Question: Can not find liquidated damages in the spec book, can you help please?

Answer: Liquidated damages are in Section F of the RFP -- Paragraph F.3.

Question: I have a question regarding the test bore done for the geothermal well field. I can't find the drilling information from that boring. Has that been released? or can it be? I understand they hit artesian conditions. I would like to know about where this occurred.

Answer: The Geothermal Report was posted on June 5th to NASA’s Business Opportunities and the Federal Business Opportunities websites. NASA did encounter artesian conditions between 150 feet and 175 feet.

Question: Please publish the LEED checklist to allow us to understand how LEED Platinum will be achieved.

Answer: The Architect's LEED checklist has been posted to NASA’s Business Opportunities and the Federal Business Opportunities websites.

Question: For exterior metal stud framing (specification section 054000), detail 9 on S009 shows the bottom track anchored with Hilti KB-3. This is suitable for attachment to

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concrete but not to steel. Where framing will attach to steel, such as in detail 14 on A701, would it be acceptable to attach the bottom track with powder-actuated fasteners? If not, please provide attachment method.

Answer: For Detail 14/A701, the bottom track may be fastened to the structural steel using self-drilling self-tapping screws.

Question: Detail 8 on S009 shows a metal stud wall with the top track welded to the metal studs. Would it be acceptable to use #10 self tapping Hilti Kwik-Pro screws, as shown in detail 9, in lieu of welding?

Answer: Yes, a screw connection with equivalent strength would be acceptable.

Question: Specification 054000, part 1.3.A.4 indicates framing system is to "accommodate live load deflection of primary building structure" with "upward and downward movement of 1 inch." For infill framing shown in detail 14 on A701 please confirm that this does not apply and that a "hard" connection can be used for stud to track attachment.

Answer: The live load deflection requirement does not apply to Detail 14/A701.

Question: Specification 054000, part 3.2.D indicates a neoprene sealer gasket is to be used "to isolate the underside of wall bottom track or rim track and the top of foundation wall or slab at stud or joist locations." Please confirm this gasket is not required where the track is attached to tube steel in detail 14 on A701, since the track is not attached to the "top of foundation wall or slab."

Answer: The neoprene gasket is not required in Detail 14/A701.

Question: Details 14 and 15 on A761 show top of wall conditions for rated walls. In areas with an exposed ceiling this will be visible. Please confirm this is acceptable. Please provide a detail for nonrated walls.

Answer: Details 14/A761 and 15/A761 are acceptable as shown.

Question: Specification 092116.23, part 2.5E indicates a slotted slip track or a fire track is to be used in a shaft wall assembly. These products are not made for shaft wall assemblies. Please confirm a J track is acceptable.

Answer: A J-track is acceptable.

Question: Grading for Building Pads. Plan Sheet S005, Detail 2 (as revised by Bid Amendment #2) calls for 24 inches of non-expansive fill beneath the building slab capillary break layer (2" sand/4" gravel). However, the project geotechnical report by Fugro West, para 7.3.2 (page 16) states that "the crushed rock and sand of a capillary break, if used, may be considered as the upper portion of the 24-inch non-expansive fill layer." Please clarify if the required non-expansive fill section beneath the capillary break is 18 inches or 24 inches in depth.

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Answer: Refer to Drawing S005 detail 5. Revise the 24" non-expansive fill dimension to 18" non-expansive fill. The crushed rock and sand of the capillary break may be considered part of the 24" non-expansive fill layer.

Question: Grading for Exterior Concrete Hardscape. Para 7.1.4 (page 12) of the Fugro West geotechnical report recommends a 12-inch layer of non-expansive fill beneath site concrete slabs-on-grade. However, in para 7.5 (page 18), the same report recommends that all site concrete be supported "directly on properly prepared native soil." Please clarify if nonexpansive (ie., imported) soils is required at these areas.

Answer: Detail 5/L401 will be revised. Please note that contract requirements are shown on the drawings and specifications, not in the geotechnical report.

Question: 260513-3, 2.2, E. - If the conductors need to be filled, does NASA understand that this is not "stock" for MV-105 cables and will require minimum manufacturing quantities in the range of 5,000 - 10,000 feet for each conductor size with long lead times in the range of 8-12 weeks ARO? Note: There is no great benefit to a filled conductor in an EPR insulated cable; however, it could be considered a help to keep premature treeing from occurring in an XLP insulated cable.

Answer: Please see Amendment 5.

Question: 260513-3, 2.2, F. and G. - Insulation is listed twice in the specification, once for cross-linked polyethylene (XLP) and again for ethylene propylene rubber. Which insulation is to be used? Note: EPR is by far the leading insulation used in industrial applications.

Answer: Please see Amendment 5.

Question: 260513-3, 2.2, H. and I. - Shielding is listed twice in the specification, once for a copper tape shield and again for embedded drain wires in a CPE jacket. Which is to be used? Note: A 5 mil copper tape with a minimum 12-1/2% overlap is by far the construction found in industrial applications.

Answer: Please see Amendment 5.