



Loudoun County, Virginia

Division of Procurement
One Harrison St, SE, 4th Floor
Leesburg, Virginia 20175

June 18, 2019

NOTICE TO BIDDERS

ADDENDUM NO. 3

RFQ 58772

The following changes and/or additions shall be made to the original Invitation for Bid RFQ 58772: Construction of the New Loudoun County Courthouse. Please acknowledge receipt of this addendum by signing and returning with your bid.

1. The purpose of this Addendum is to respond to questions received and to modify contract documents.
2. Substitutions during the bidding process. Several requests for substitutions have been received for lighting; metal ceiling system; HDPE bathroom partitions, and an automatic door opener. Per IFB Section 18.28 in the Instruction to Bidders "The County will not consider substitutions for convenience during the bidding process. They will be considered after contract award. Refer to Article 4.15 – Equal Products in the General conditions of the Construction Contract for procedures. Substitutions for Cause, once verified, may be addressed during the bidding process at the discretion of the County." None of the substitutions submitted have been determined to be "Substitutions for Cause".

Prepared By: s/Christopher Bresley, CPPB Date: 6/18/2019
Contracting Officer

Acknowledged By: _____ Date: _____

ATTACHMENTS:

- Attachment 1: 042000 Unit Masonry (Updated Section 1.5.C and 2.10.B)
Attachment 2: 055113 Metal Pan Stairs (Added Specification)
Attachment 3: 096723 Resinous Flooring (Added Specification)

- Attachment 4: 122413 Roller Window Shades (Revised Specification)
- Attachment 5: Revised Drawing AS-103
- Attachment 6: Revised Drawing A-447
- Attachment 7: Revised Drawing A601
- Attachment 8: Revised Drawing A-610
- Attachment 9: Revised Drawing A-621
- Attachment 10: Revised Drawing E-001
- Attachment 11: Revised S-303 – Foundation Sections and Details
- Attachment 12: Revised S-310 – Site Foundation Sections and Details

BEGIN QUESTIONS

Q1: The Curtain wall specifications list requirements blast and large missile impact resistance, however, we do not see any insulated laminated glass specified with this resistance or supporting documentation for any blast design criteria. Please advise if the blast and large missile impact specifications are required.

A1: Yes, the performance requirements are provided in section 088000 Glazing

Q2: Wind-Bourne Debris requirements are noted in the specs, but the wind-loads noted in the structural drawings are relatively low for hurricane requirement. Is the Wind-Bourne Debris specification required?

A2: Performance requirements are provided in section 088000 Glazing

Q3: Kawneer 1600 System 3 is specified, which is an inside glazed curtainwall. This project application is better suited for the 1600 system 1 outside glazed. Would this be acceptable?

A3: No. this is not an acceptable substitution.

Q4: There is a window spec calling for Kawneer AA6400 Canadian windows. Where are these located?

A4: This Specified in 085113 Aluminum Windows and covers the windows with 'W' designation (e.g. W2B, W3B), that are not bullet resistant.

Q5: The security window spec is calling for bullet resistant products and the architectural drawings seem to randomly select certain openings for windows and curtainwalls as bullet resistant. Are these the only openings that are to be bullet resistant or is everything supposed to be bullet resistant?

A5: The extent of bullet resistant openings are clearly indicated on the exterior elevations (A-200 series) and on A-613. Please note that some windows require bullet resistant glazing in the upper glazing and not the lower (e.g. CW7B).

Q6: The basis of design products (Kawneer) for the windows & curtainwalls do not manufacturer any bullet resistant products. Please advise if there is an alternate BOD product being considered.

A6: Reference 085820 Security Windows for bullet resistant window requirements and manufacturers.

Q7: Per the frame schedule, 601T (2x6 storefront) is detailed. There is no storefront spec, what frames are 601T?

A7: We are unable to find this reference in the contract documents.

Q8: The specifications list Centria Formawall 3" DS58 as basis of design, which is a 40" wide panel. The specifications also list Metl Span, MBCI and King Span as acceptable manufacturers, however, these manufacturers only provide a 36" wide panel. Would a 36" panel be acceptable in lieu of 40" panel as specified in the Basis of design?

A8: Yes, the use of other listed manufacturers is acceptable.

Q9: Drawing E-001, Front of House Lighting Fixture Schedule, notes the manufacturer of fixture mark Q1 is YDL. The suppliers are not coming up with a manufacturer YDL, please provide additional information for fixture type Q1.

A9: The fixture is by SPI Lighting and the various Q1 fixtures are assembled together as a custom fixture. See A-453.

Q10: Specifications: 122413 1.2 A. 1-2 Lists manual and motorized shades. Drawings do not make distinction. Which is required?

A10: Both type are required refer to spec 122413 issued as part of this addendum.

Q11: Specifications: 122413 2.2 C. "Crank and Gear..." This is redundant when applied to subsection B. with Chain and Clutch Operating Mechanism. May we exclude Crank and Gear Operating Mechanism?

A11: See spec 122413 issued as part of this addendum.

Q12: Specifications: 122413 2.2 H. 1-8 Lists all available installation accessories. Most of these are mutually exclusive. Plans only show concealed pocket. May we exclude everything except the 4. Recessed Shade pocket and 5. Closure panel and Wall Clip? Side and Sill channels are not necessary for solar filtering shades. May we exclude Side and Sill Channels?

A12: See spec 122413 issued as part of this addendum.

Q13: Specifications: 122413 2.3 B. 3. a-i Lists all available motor controls for Motorized Shades. Please select one type of control if Motorized shades are, in fact, required.

A13: See spec 122413 issued as part of this addendum.

Q14: Drawings: A-341/11 Shows shades in pocket. Who is responsible for pocket? Is this typical of all shades at exterior windows?

A14: The contractor is responsible for the pocket. Yes this is typical at all exterior windows.

Q15: Drawings: A-430/6 Shows shades in pocket. Who is responsible for pocket? Is this typical of all shades at exterior windows?

A15: The contractor is responsible for the pocket. Yes this is typical at all exterior windows.

Q16: Drawing: A-621 3% shades (WS-2) noted at "Exterior windows". Does this include curtain walls? Doors? Transoms? Are these manual or motorized shades?

A16: See spec 122413 issued as part of this addendum for locations.

Q17: Drawing: A-621 Blackout shades (WS-1) are noted at "Clerk Window". Is this for all windows at Clerks' Service Counter

A17: Yes

Q18: Interior Paint Specifications reference Section 099600 "High Performance Coatings", no spec it given. Please clarify.

A18; This reference can be ignored.

Q19: On page A621 WD-1 has a note for "General Wood Quote #160508" Please clarify or provide.

A19: That quote numbers refers to the exact wood specifications and species selected from Mortensen / Capital Woodwork.

Q20: Interior Paint 099123 Section 3.6.B.5 refers to section 096723 "Resinous Flooring" no spec section is given, but epoxy (EF-1) and shop flooring (ER-1) are both listed on the finish list A621. Please provide specifications or clarify.

A20: Spec section 096723 "Resinous Flooring" has been included with this addendum for the two epoxy floor coatings listed in the finish schedule.

Q21: 6/A421 shows a countertop identified as P-lam, cross section on 6/A448 calls out a solid surface. This is shown on a number of other details for the countertops on A101, labeled as a P-lam at elevations, but then as a solid surface on the cross section. Which is the correct counter? Similar question for room 1313 countertops (elevation show P-lam, cross section shows solid surface).

A21: Reference interior elevations for correct counter material.

Q22: 6/A421 shows the counter top at the Control Room (0405), on A101 this counter is 2-0 deep. The referencing cross section for the 6/A421 detail is on 6/A448 and calls out a 1-0 deep "service counter". Please provide the correct cross section for this

counter.

A22: Counter is 2'-0" deep similar to details 11 and 12/A448

Q23: 8/A421 has a section detail referencing 4/A455 but this for a stair detail. Please correct or clarify.

A23: See reference 4/A445.

Q24: 4/A424 details show both wall covering 097200.02 and paint 099123.01 at the same location. Which is the correct finish?

A24: Although hatching is the same the finishes are correct, wallcovering below the counters and Paint above.

Q25: A111 Stair 2, the windows are labeled WI4B with a reference to detail 10/A610, this detail is listed for window WI3J. Are the windows to be WI4B or WI3J. What is a WI4B if that is the correct window?

A25: The title on 10/A610 should read WI4B.

Q26: A111 to the South of Stair 2 there appears to be a casework/millwork footprint shown. Is there additional information about this piece and is it to be included in the base bid pricing?

A26: See detail 10/A-447

Q27: 3/A424 please provide a section detail of area to the right of the Clerk of The court windows.

A27: Refer to detail 7/A723 for raised panel detail

Q28: Corridor 1335 on the reflected ceiling plan A115 has no identifying marks – is the finish to be GWB or exposed?

A28: This is ACT-1 @ 10'-0' AFF.

Q29: On G-002 there is a detail for a CMU wall with a lead lined GWB finish. Where is this wall used on the drawings? It is not shown on the partition schedule.

A29: There are no lead lined gypsum board walls on the project.

Q30: 8/A743 detail is called out for the entrance to Courtroom B on A428. The cross-section detail doesn't appear to match up to what it should be showing per 3/A428. Please confirm the correct section detail.

A30: This detail reference is for the interior of the courtroom.

Q31: Specification Section 084413 GLAZED ALUMINUM CURTAIN WALLS, Part 2.1.N states curtain wall to have a low hazard blast resistance. What are the project specific blast load requirements?

A31: There are no blast requirements for the project.

Q32: On the reflected ceiling plans, A105, A115, A125 ceiling type WD-1 is labeled as Wood Panel Ceiling TBD, please identify what the ceiling is to be.

A32: All wood panel ceiling should be the makore wood.

Q33: Will the touch screens at the Judge's Bench be OFCI, OFOI or CFCI. If screens are to be provided by Contractor, please provide a BOD for the screen.

A33: Contractor is responsible for providing, see spec 274130 Video for Audio/Visual systems.

Q34: Detail 1 and 2 on A321 shows 089119.01 extruded aluminum wall louvers. This same item is identified as "perforated metal panels" on A711, no specification ID was given. Which is the correct material to use? The Specification for Perforated Metal Wall Panels, 074200 reads as if it is an exterior soffit application. Please clarify.

A34: It is perforated metal panels as specified in section 074200

Q35: Detail 6 / A452 – What is the finish underside of the stairs? The detail references "wire lath" but the finish is unclear. Please clarify.

A35: The wire lath is in reference to the terrazzo finish the steel stair will be painted.

Q36: Detail 2 and 3 on A439 shows a perforated metal panel diffuser. Please provide a basis of design.

A36: It is perforated metal panels as specified in section 074200

Q37: 3/A-455 points to a gray square at Level 2 with the designation 089119.01 – Extruded Aluminum Wall Louver, however there are references to section details 6-9/A-456 that call for perforated aluminum panels. Please clarify.

A37: It is perforated metal panels as specified in section 074200

Q38: Specification 074200 – Perforated Metal Wall Panels, section 1.2.A reads there are metal soffit panels, however, none appear to be shown. Please confirm no perforated metal soffit panels are required or clarify.

- A38: Perforated metal panels are required as specified in section 074200. Refer to response to questions 34 and 36 as reference.
- Q39: Specification 074200 – Perforated Metal Wall Panels, section 2.2.B.2.f&g call for two (2) different perforation types, however, the drawings do not appear to differentiate between perforations. Please clarify.
- A39: Perforations shall be 1/4" on 1/2" staggered centers.
- Q40: 1/A348 is referenced on page A125 2nd Floor Reflected ceiling. Is this the correct wall section for that reference on the reflected ceiling plan? Please confirm.
- A40: Yes
- Q41: On A150 the Tunnel and Existing Courthouse Plans, detail 2 shows the reflected ceiling and notes "EXP" for exposed. The ceiling legend indicated the stippled finish would be a GWB ceiling. Is the ceiling at the tunnel to be GWB or exposed?
- A41: The ceiling for the tunnel is exposed.
- Q42: As per Geotech Report pg. 23, the Allowable Design Capacity of the Micropile is 100-kips in Compression & 50- kips in Tension; As per Micropile Design report (dated February 20, 2019) page 3, it is mentioned 140-kips in Compression & 90-kips in Tension, Please clarify.
- A42: The Feb 20, 2019 micropile design report supersedes the previous geotechnical report. Design compression capacity is 140 kips & 90 kips in tension for the piles.
- Q43: In rooms 0519 and 0520 the floor base is listed as TB-1, there is no TB-1 listed on the A-621 Room Finish List. Please identify the TB-1 finish.
- A43: The wall tile meets the floor with an aluminum schluter transition. So the base designation should state "None".
- Q44: CRI and CRO are similar styled doors (A-602) are they both to have lites inset into them? Please provide glazing type to be used for these doors. No glazing requirements are indicated on the Door Schedules, Elevations and Details page A-601.
- A44: CRI does not receive the sidelite. CRO receives the sidelite GL-6, see glazing schedule on sheet A-610 for type.
- Q45: Drawing QD-101 mentions spec sections 111929 Security glazing, 111913 detention hollow metal doors and frames, and 111953 detention hardware. Please confirm they are supposed to be 088853, 083463, and 087163 respectively.

A45: Confirmed.

Q46: On page A613 Window W1D and W1C are identified. Please identify their locations on plans or elevations. No windows were found.

A46: These windows are not used.

Q47: Please confirm the slate panels at the curtain wall will be a 1" panel consisting of 3/16" slate veneer with honeycomb backer. The Exterior Stone Cladding Specification 044200 calls out 2 different products with different properties for this application.

A47: Confirmed

Q48: Drawing GG400 says the rock socket must be a minimum 10" diameter. This can only be accomplished utilizing an overburden drill system fitted with a down-hole hammer (high pressure air). Drawing SG101 says that the 17/ea micropiles that are in close proximity of the existing court house – air is NOT permitted. This would mean that water has to be used as the drill medium. The 9.65" x 0.545 wall micropile casing has a 8.46" ID. Therefore; the rock socket on these micropiles would have a 8.25" rock socket. Is this acceptable?

A48: Compressed air is not acceptable due to the potential for eroding soil out of subsurface seams. Use compressed water with an overburden drilling system and downhole hammer or other methods (not air). If the contractor's capabilities for this situation are limited the piles will have to be redesigned with a longer bond zone.

Q49: Drawing C-131 and C-132 the graphic scale and the plan scale (1"=20'-0") do not match. Which scale is the correct scale?

A49: the graphic scale and plan scale are 1" = 20 and both match.

Q50: On plans AS-102 the bollards are called out as detail 10/AS-112, and on drawing S-100A and S-100B the bollards are called out as detail 8/S-310. These details show different type of bollard. Please clarify.

A50: Per foundation notes on details 10 and 9/AS-112 this is a delegated design shallow mount foundation system, basis of design system as shown on 8/S-310

Q51: The site retaining wall between columns 6 & 8 has a detail call out 13/S-310. On this section detail it shows micropile below the footing. These micropiles do not show up on drawing SG-100 "Micropile Numbering Plan". Are these micropiles required?

A51: Yes, micropiles are necessary under that retaining wall.

Q52: Door 1302 is labeled to have an AL (aluminum) frame, however all other doors similar to this one are HM and next to a demountable partition system. Is AL the correct material for the frame or is it meant to be a HM?

A52: See the revised door schedule A601, issued with this addendum, for correct frame finishes.

Q53: Reference Interior Partition Legend on Sheet A-632, in "Other Modifiers" note A says spray foam insulation behind metal stud however partition type S201A and S301 call for batt insulation. Please confirm spray foam insulation is not required at partitions.

A53: The "A" is the wall height identifier in this configuration.

Q54: Details 1-3 on A-318 shows 072100.C-R15 (3" Foam-Plastic Board) under the concrete deck at Secure Judicial Parking and 4/A-318 shows 072100.R31 (Spray-applied Foam Insulation) under the concrete deck at Secure Judicial Parking. There are several examples of rigid insulation and spray foam being identified in the same areas making it difficult to quantify/understand. Please clarify the intent for spray foam insulation.

A54: 072100.R31 (Spray-applied Foam Insulation) is the correct material for the entirety of the slab above the judicial parking garage.

Q55: Details 2 and 5 on A-153 call for 071416.A02 – Cold fluid applied waterproofing at the lid of the tunnel. No specification was provided for 071416 – Cold fluid applied waterproofing. It is our experience that hot-fluid applied waterproofing (Spec Section 071413) is the proper application. Please clarify the appropriate waterproofing application.

Q55: The appropriate specification for the tunnel waterproofing is 071326 Self Adhering Sheet Waterproofing.

Q56: Specification 074213 – Insulated Metal Wall Panels, section 2.2.B.6 calls for 3" insulated metal panels, however, 7/A-334 shows a transition from 3" to 2" rigid insulated metal panel systems. Please confirm both 2" and 3" panels are to be provided.

A56: Confirmed.

Q57: Sheet AS-131 - All of the Proposed Exterior Wayfinding Signage seems to be a modification of existing signage. Please clarify that this is the case and no signs will change their current locations.

A57: Confirmed.

Q58: Sheet AS-131 - Where the new proposed signs are to be installed and an existing post is present will the new sign be installed onto the existing post?

A58: Provide new mounting post meeting the requirements outlined on sheet AS-134.

Q59: Sheet AS-135 Commemorative signs - although a size is given for these signs, a material, thickness, graphic method and mounting method are not. It would be our recommendation to use High Pressure Laminate with the image imbedded for these signs. Would this be an acceptable solution, or is there a specification for a preferred product that is to be used for these signs?

A59: Per BAR requirements the images shall be inscribed into black granite plaque.

Q60: Commemorative signs sheet AS-135 - Can it be assumed that the artwork for these signs will be provided, or will art creation be required?

A60: Camera ready art will be provided.

Q61: For Directories spec section 10 1300 - is there a manufacture and model that can be identified as a bases for the size, type and configuration to be quoted?

A61: The basis of design for all signage is system 2/90, Inc.

Q62: As multiple materials and methods are described in section 10 1419 Dimensional letter Signage, Please clarify which of the following is to be used when MTL-1 is specified: Cast Brushed bronze, Cast Aluminum with a brushed finish and anodized bronze color, Flat cut brushed bronze, flat cut Aluminum with a brushed finish and anodized bronze color.

A62: See signage color schedule on A-814.

Q63: Is there existing signage at the existing court building that these signs are to match, if existing signs are to be matched, are they system 2/90 signs?

A63: No these are not intended to match the signage in the existing building.

Q64: Will we be allowed to crane swing over the cemetery during construction of the project?

A64: No.

Q65: Fixtures H and S on E-001 refer us to A-740 for locations and quantities; however these fixtures aren't shown on this drawing. Please indicate where these fixtures are located.

- A65: S fixture will be at the 3 tables in the Public defender workroom and the H fixture will be at the 2 public defender tables in the court rooms
- Q66: Spec 262800-2.6-B calls out for N4 enclosures when outdoors. Are N3R enclosures acceptable?
- A66: Provide enclosures as specified and indicated on the drawings
- Q67: Spec 262900-2.2-B-6 calls out for N4 enclosures when outdoors. Are N3R enclosures acceptable?
- A67: Provide enclosures as specified and indicated on the drawings
- Q68: Spec 262800-3.3-A states the following: "All necessary modifications to the new electrical equipment in order to maintain the UL listing of the equipment as a result of this study shall be provided by the contractor and the costs associated with these modifications shall be included in the contractors bid." The coordination study isn't performed until a contract is awarded and MEP, elevator and fire pump submittals are approved. There is no way for the contractor to forecast and changes that may be required as a result of the coordination study. Can this be carried as an allowance, or changed to "...shall NOT be included in the contractors bid."?
- A68: Do not include in bid, will be addressed after contract award.
- Q69: The drawing TA-601 detail 1 line diagram for Conf. Rm. 0109 says 60" display but there are no 60" in the spec. What size screen should go there?
- A69: For Conference Room 0109 use 70" display in lieu of 60".
- Q70: The Division 274130 video specification page 5 item 2.05 says 50" but the model number given is the same as the 55". Is there supposed to be a spec for 50" or just use 55" for both?
- A70: Utilize 55" display in lieu of 50" display
- Q71: The rack elevation drawings TA-201 details 6 & 9, and TA-402 detail 3 show a UPS in each rack but none is specified. If that is in our scope what brand and model is requested?
- A71: See section 274104 – 2.06 RACK MOUNT UNINTERRUPTIBLE POWER SUPPLIES
- Q72: The Division 27 audio, video and control specs and TA series drawings show podiums but none are specified. Are these in our scope and if so what is the brand and model requested? And the TA series line drawings on TA-601 and TA-602 show Power Controllers but none are specified. Are these in our scope and if so

what is the brand and model requested?

A72: The podiums are part of the millwork package. Details are on sheet A-730. Power controller is specified as in 274104 2.04.

Q73: The TA-602 drawing detail 7 for the AV Network shows CAT6A patch panels going in telecom rooms but no patch panels are specified. Are these in our scope and if so what is the brand and model requested? Also do these go in racks furnished by others?

A73: Cat 6A patch panels should be Systimax Commscope. Follow specifications outlined in 271500. Yes, patch panels are mounted in equipment rack furnished by the Div 27 contractor.

Q74: Spec 280500-1.05-F-3 indicates a fee of \$150/sheet will be assessed for electronic files from the architect. Please confirm that contractor and subcontractors will have access to electronic files as they pertain to this project (submittals, shop drawings, coordination, etc.) from the architect and engineers at no cost to the contractor/subcontractors. This applies to the project as a whole; not just the referenced specification section.

A74: Files will provided at no cost as needed.

Q75: Drawing E-000, tenant electrical demolition note 3 states that equipment that is removed and not being reused shall remain the property of the owner and shall be stored or disposed of as directed. Who is responsible for providing storage, and where will/should the storage be located?

A75: The County will provide this information after contract award.

Q76: There appears to be (2) smoke detectors shown in light line weight in room 2104 on E-102. Are they shown in error?

A76: Yes, these smoke detectors appear to be a graphical error, and should not be included

Q77: There appears to be (2) smoke detectors shown in light line weight at column lines 3/J and 3/K on E-103. Are they shown in error?

A77: Yes, these smoke detectors appear to be a graphical error, and should not be included.

Q78: No power circuits are shown for the fire alarm control panel or (6) NAC panels. Riser note 1 on E-501 indicates the power requirements for fire alarm, however none are shown on the floor plans. Please indicate how these are to be circuited.

A78: Power should be provided from panels LEGE, LE1E and LE2E for each

respective floor.

Q79: In regards to the existing generator to be relocated:

- a. Can the feeders and control cabling coming from the generator be shown on the drawings?
- b. What is the manufacturer/model number?
- c. Size in KW?
- d. Fuel tank size?
- e. Will the fuel tank be empty? If not, how much should we assume will be in the tank at the time of relocation?

A79: All of these items need to be verified via a site visit by the Contractor, prior to final bid submissions. However, we have included the information that was available to Dewberry.

- a. Information is documented in the Civil Drawing package (C-105, C-127A thru D)
- b. The generator is Spectrum Detroit Diesel, model #200DSE
- c. 200 kW / 250 kVA
- d. Unknown
- e. No.

Q80: Who's responsible for relocating the utility transformer? This is typically the responsibility of the utility company, along with the primary conductors.

A80: The Contractor shall be responsible for all secondary aspects of the utility transformer; for the primary, and shall prepare an empty conduit path for the Utility to install primary conductors.

Q81: What is the primary conductor and conduit size? The drawings say the contractor is to field verify this; however we are not permitted to open the utility companies equipment to field verify this information.

A81: Refer to Civil Drawings C-127A-D

Q82: Can the existing location of the primary and secondary feeders be shown on the drawings?

A82: Refer to Civil Drawings C-127A-D

Q83: What size (amperage) are panels NHLB and NRLB shown to be relocated on panel E-303?

- a. Can panel schedules of these panels be provided along with branch circuit

amperages/poles to determine what is required for relocation?

- b. The demo pan on E-303 shows where the panels currently are located; however the new plan doesn't indicate where these panels are being relocated to. Please indicate the where these panels are being relocated to.

A83:

- a. The bidding Contractor should perform a site visit to confirm existing conditions.
- b. The locations indicated on Drawing E-303 show the final proposed locations. The bidding Contractor should perform a site visit to confirm existing conditions.

Q84: Please provide the manufacturer and type of circuit breaker required for the new 20A 1P circuit in panel NLLB as indicated on drawing note 12, E-303.

- a. Can the engineer verify the load doesn't exceed 400A? The contractor isn't able to verify this pre-contract award.

A84: The bidding Contractor should perform a site visit to confirm existing conditions.

- a. Contractor shall install per the design; the Contractor shall advise the engineer if an issue is observed, and a different source shall be assigned.

Q85: Bid Form, Unit Price No. 3 – Calls for casing, drilling and grout for installation of micropile foundations 3,210 LF. However, drawing SG-600 estimates the total length of micropiles to be 14,171 LF and cased length to be 11,147 LF. Which length should be used in the proposal?

A85: The value of 3,210 LF is the allowance value for additional drilling that may be required. The values of 14,171 LF and 11,147 LF represent the estimated quantities of micropiles that will be installed.

Q86: Please provide as-built drawings for the existing courthouse foundations and wall sections where the underground tunnel is tying in? We are having difficulty defining the existing foundation elevations, footing size, wall type, and slab design in this area. Additional information is needed to accurately price the underpinning and shoring work.

A86: As-built drawings are not available.

Q87: Existing Courthouse – In order to control cost and time, can the slab in the existing courthouse (above the tunnel) be removed to better access the tunnel work below? Temporary weather, floor and wall protection would be provided.

A87: No.

Q88: On page A-632 Wall partitions, there is a drilled & epoxy dowel at the base of the reinforced masonry partitions, M6-F, M8F, and M8 & M8D which is good, but why is it that the heaviest reinforced masonry wall type M8S320-F doesn't have drilled and epoxy dowels.

A88: Refer to drawings S-420 and S-421 for all masonry reinforcement requirements.

Q89: Same page, this drilled dowels are shown as 5" long, shouldn't this dowels be long enough to be lapped with the vertical reinforcing, #5 and #7 rebar?

A89: Refer to drawings S-420 and S-421 for all masonry reinforcement requirements.

Q90: A note on Section 5/ A-632 reads, 8" CMU W/NO.5 BARS AT 8"CTS EACH WAY EACH FACE, meaning a double #5 bar on each cell and a double #5 bar horizontally on every course, correct?

A90: Refer to drawings S-420 and S-421 for all masonry reinforcement requirements.

Q91: Same section as above. Partition Type M8S320-F will require the use of "Ivany Block". Is this correct?

A91: Refer to drawings S-420 and S-421 for all masonry reinforcement requirements.

Q92: Same section, same Partition Type M8S320-F on the description at the base of the picture it says 6" CMU, but the note says 8" CMU; is it an 8" or a 6" CMU?

A92: This is 8" CMU

Q93: The Structural drawings and specs call for Bond Beam block and masonry reinforcing @ 16" O.C. or 48" O.C. But the Architectural drawings call for "Knock Out Block for Rebar" and reinforcing at 16" CTS, are these the new political correct terms?

A93: Refer to drawings S-420 and S-421 for all masonry reinforcement requirements.

Q94: Specification section 142400-1, paragraph 3, d. notes an Alternate #1 to reuse existing jack assembly, however the current bid form "Pricing Page" does not provide any blanks/spaces for alternates or allowances. Please advise of how the alternate is to be handled.

A94: Disregard Alternate #1 and provide new jack assembly.

Q95: Proposed Exterior Wayfinding Signage Scope (Sheet AS-131)

- a) All of the Proposed Exterior Wayfinding Signage seems to be a modification of existing signage. Please clarify that this is the case and no signs will change their current locations.
- b) Where the new proposed signs are to be installed and an existing post is present, will the new sign be installed onto the existing post?
- c) If existing posts can be utilized, is the expectation that they would be brought to a like new condition?
 - a. If the posts are to be reconditioned, will temporary signage be required while the posts are out for servicing.
 - b. If new posts are required, is replacement of the post above the break-a-way plates only allowable? (This would save costs on installation, as the existing plate configuration can be easily matched)

A95: See responses to questions 57 and 58

Q96: Exterior Wayfinding Signage – Option2 High Density Urethane Foam (Sheets AS-132 and 134)

- a) If Fabrication Option 2 (HDU) is selected, is its use to be limited to the newly proposed wayfinding signs only, or will existing signs with unchanged messages need to be remade of HDU in order to maintain continuity with the newly upgraded urethane signs?

A96: Signs with unchanged messages shall not be updated.

Q97: Commemorative Signs – Material and Specification (Sheet AS-135)

- a) Although a size is given for these signs, a material, thickness, graphic method and mounting method are not. It would be our recommendation to use High Pressure Laminate with the image imbedded for these signs. Would this be an acceptable solution, or is there a specification for a preferred product that is to be used for these signs?
- b) Can it be assumed that the artwork for these signs will be provided, or will art creation be required?

A97: See responses to questions 59 and 60.

Q98: Written Specification section 10 1300 Directories

- a) As written specifications are included for directories on pages 10 1300-1 through 10 1300-7, it appears that sign type 7.1 of sheet A-814 will perform the directory function for the interior sign system. Is there a requirement for one or more additional directories in the scope of the project?
- b) If an additional directory requirement exists, please clarify the following:
 - a. Is there a manufacture and model that can be identified as a bases for the size, type and configuration to be quoted?
 - b. If required, how many directories will be required?
 - c. What is the wall surface/blocking conditions at the installation location(s)?

- d. If Illumination with power is required. Will power be run to the directory locations by the GC?

A98: See below:

- a. See Signage plans for directory locations.
- b. Refer to general signage note #1
- c. See Signage plans for directory locations.
- d. See Signage plans for directory locations.
- e. No. These are not illuminated.

Q99: Interior Signage (Sheet A-814)

- a) Is there existing signage at the existing court building that these signs are to match?
- b) If existing signs are to be matched, are they system 2/90 signs?
- c) Can what is shown to be Painted Sign types P.1 and P.3 be provided as wall mounted panel signs?
- d) As multiple materials and methods are described in section 10 1419 – Dimensional letter Signage. Please clarify which of the following is to be used when MTL-1 is specified:
 - a. Cast Brushed bronze
 - b. Cast Aluminum with a brushed finish and anodized bronze color
 - c. Flat cut brushed bronze
 - d. Flat cut Aluminum with a brushed finish and anodized bronze color

A99: for a, b, d see responses to questions 61-63; for c. the answer is no.

Q100: Are Union or Prevailing Wage rates required with regards to installation labor on the project?

A100: No.

Q101: Is procurement of sign permits required for the exterior wayfinding scope of the project, or does that fall under the GC building permitting?

A101: The wayfinding signs are part of the Zoning Permit issued by the Town of Leesburg.

Q102: When is the expected completion of sign installation with regards to exterior wayfinding and interior signage respectively?

A102: To be provided by General Contractor

Q103: There is no TB-1 finish tag for wall base on the finish schedule A-621. Please advise what this designation is.

A103: See response to Q43

Q104: Room 1215 does not have the ceiling type on the plans.

A104: it's ACT-1

Q105: Drawing AS-103 shows brick pavers but calls out concrete on the drawing. Also drawing C-128 calls for concrete paving. Does this area on AS-103 get brick pavers?

A105: This is concrete paving, see revised. AS-103 issued with this addendum.

Q106: Roller Shades questions, Specifications. 122413 1.2 A. 1-2 Lists manual and motorized shades. Drawings do not make distinction. Which is required?

A106: See spec 122413 issued as part of this addendum.

Q107: Roller Shades questions, Specifications. 122413 2.2 C. "Crank and Gear..." This is redundant when applied to subsection B. with Chain and Clutch Operating Mechanism. May we exclude Crank and Gear Operating Mechanism?

A107: See spec 122413 issued as part of this addendum.

Q108: Roller Shades questions, Specifications. 122413 2.2 H. 1-8 Lists all available installation accessories. Most of these are mutually exclusive. Plans only show concealed pocket. May we exclude everything except the 4. Recessed Shade pocket and 5. Closure panel and Wall Clip? Side and Sill channels are not necessary for solar filtering shades. May we exclude Side and Sill Channels?

A108: See spec 122413 issued as part of this addendum.

Q109: Roller Shades questions, Specifications. 122413 2.3 B. 3. a-i Lists all available motor controls for Motorized Shades. Please select one type of control if Motorized shades are, in fact, required.

A109: See spec 122413 issued as part of this addendum.

Q110: Roller Shades questions, Drawings. A-341/11 Shows shades in pocket. Who is responsible for pocket? Is this typical of all shades at exterior windows? Please clarify.

A110: The General contractor

Q111: Roller Shades questions, Drawings. A-430/6 Shows shades in pocket. Who is responsible for pocket? Is this typical of all shades at exterior windows? Please clarify.

A111 The General contractor. Yes

Q112: Roller Shades questions, Drawings. A-621 5% shades (WS-2) noted at “Exterior windows”. Does this include curtain walls? Doors? Transoms? Are these manual or motorized shades? Please clarify

A112: See response to Q16.

Q113: Roller Shades questions, Drawings. A-621 Blackout shades (WS-1) are noted at “Clerk Window”. Is this for all windows at Clerks’ Service Counter? Please clarify.

A113: See response to Q17.

Q114: Omitted

Q115: Drawing A111 shows window type WI4B near Room ST02B (Stair 2). Please provide details for Window type WI4B.

A115: See drawing A-610.

Q116: Please confirm that the following Window frames are not used in this Project – WI3J, W1C, W1D, W2E, W4A, W4B.

A116: W1C, W1D and W2E are not used. WI3J should read WI4B. Refer to A-201 for W4A and W4B.

Q117: Omitted

Q118: Omitted

Q119: Detailed Section 4/A318 for opening 0600A shown on drawing A101 specifies the opening as a “Bi Fold Garage Door on Automatic Door Open”. The Door Schedule on drawing A601 does not specify any additional information for the opening. Please advise if the frame per the door schedule is required and provide additional information need for the opening.

A119: See sheet A-603 and spec section 084229 Folding automatic entrances.

Q120: Per Addendum 2, it is indicated that no blast loads have been calculated for this project. Without blast load criteria the storefront/curtain wall manufacturers cannot provide a blast rated system for this project. Please provide the blast criteria.

A120: See response to Q31.

Q121: Please clarify the ceiling type for hallway rooms 1300, 1335, and 1354. No designation is shown for these areas.

A121: ACT-1

Q122: Room 1215 on drawing A-115 does not show the ceiling type for this room. Please provide the ceiling type.

A122: ACT-1

Q123: Per the notes listed on the fixture schedule for fixture type H and S, it refers to drawing A-740 for location and quantities, however, it is not shown on that plan. Please advise.

A123: See response to Q65

Q124: Can Stainless Steel be used (at no extra cost) in lieu of the Anodized Aluminum Guardrail and Handrail?

A124: Substitutions are not being considered during bidding.

Q125: On C110 it shows a retaining wall with handrail near the southwest corner of the parking lot. It says to reference page 47A but there isn't a page 47A. Would this be railing attached to the retaining wall or will it be a single line or two line rail?

A125: Since the ramp is under 5%, railings for the ramp are not necessary and were not anticipated in this design. The Handrails called out are located on top of the retaining walls for fall protection.

Q126: On C-135C there is a detail for Luxrail lighted Handrail. Where is this rail located on the drawings?

A126: See E-001 and E-301

Q127: There are 2 details showing a different type of railing at the roof hatch. 2/A-321 shows steel tube attached to the roof and page 9/A-531 shows FRP attached to the roof hatch. What is the material to be used and is this field built or a prefabricated system?

A127: Steel tube see spec 077200 roof accessories.

Q128: Are the spectator rail and stair barrier gates the only decorative glass railing system/Glazed Decorative Metal Railings from spec 057313? If there is other "Decorative Metal Railing", where is it located?

A128: The spectator rail is not a decorative glass rail. Only the stair barrier and the railing in the lobby.

Q129: Details 1-4 from page A-740 indicate the spectator rail with a metal bent plate with

brass finish, please provide additional detail on the intent of attaching the brass onto the rail?

A129: The bent metal plate will be welded to the 2x2 steel tube See detail 4/A740.

Q130: Detail 10 on drawing P-001 indicates that in-ground plumbing pipes shall be supported from the slab above. Please confirm that electrical conduits do not need to be supported in this manner. If in-ground electrical conduits shall be supported, please provide a detail and layout of required supports.

A130: Refer to response to Question 191.

Q131: The main floor plan on drawing E-200 shows underground electrical conduit. Please clarify the depth of said conduit and confirm that the layout has been coordinated with grade beams.

A131: Conduit/Raceway depths shall be per Table 300.5 in the NEC. Note that under a building, there is no specific depth requirement and this should be coordinated with site and field conditions. Raceway paths indicated on Drawing E-200 have taken grade beams in to consideration, however the Contractor will be responsible for final paths.

Q132: Bollards – 1/AS-102 indicates security bollards detail 10/AS-112 and they appear to be the same as specified in specification section 129300-4, 2.4, A. However, S-100A indicates Truckstopper 7-40 crash bollard (or equal K-8 rated..) and details section 8/S-310. Please advise of which detail to use for the security bollards. In addition detail 6/S-301 indicates another bollard detail which we assume is to only be used at the north parking area, please confirm.

A132: See response to Q50

Q133: Specification section 051200-1, 1.4, A, 2 requires a Maryland licensed engineer, please confirm this should be Virginia in lieu of Maryland.

A133: Confirmed.

Q134: Stairs – There does not appear to be a Division 5 steel/metal pan stair specification, please provide if required.

A134: See spec 055113 Metal Pan Stairs issued as part of this addendum.

Q135: Steel decking – S-001 notes 3 inch composite floor deck and 3 inch metal roof deck; however specification 053100 notes 3 inch or 1 ½ inch roof deck as indicated and 2 inch composite floor deck. Please advise of the intent.

A135: Deck indicated on plans is correct.

Q136: Specification section 044200-1, 1.3, A indicates "Preconstruction and quality-control testing is part of testing and inspection allowance", we have not found where we are to carry any testing and inspection allowances in the bid. Please advise.

A136: This can be disregarded since the County is providing third party testing and inspection.

Q137: Specification 057300-11, 3.6, A indicates "Testing Agency: Contractor will engage a qualified testing agency to perform tests and inspections and to prepare test reports", however all the other Division 5 specifications requiring testing including similar rail specifications indicate the Owner will engage the testing agency. Please confirm the Owner will engage the (third party) testing agency.

A137: This can be disregarded since the County is providing third party testing and inspection.

Q138: Specification 085820-10, 3.4, A indicates third party testing is required but does not note who is to engage the testing agency. Please confirm the Owner will engage the (third party) testing agency.

A138: This can be disregarded since the County is providing third party testing and inspection.

Q139: Sheet A154 shows a "metal expansion joint cover" in details 7 & 8. However, there doesn't appear to be any associated specifications for that item. Please provide specifications for the metal expansion joint cover.

A139: See spec section 079300 Expansion joint sealant systems.

Q140: Specification Section 093013 "Ceramic Tiling", Para. 1.8 A Installer Qualifications requires that "1. Installer is a five-star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America." However, upon further investigation, there are only 7 subcontractors within a 250 mile radius that are listed as a five-star member of the National Tile contractors association, and there are 0 Trowel of Excellence Members listed for the states of VA, MD, PA, DC & DE. Given the very limited number of subcontractors with either of these certifications, can these certification requirements be waived?

A140: Yes that requirement can be waived as long as the Installer provides at least one installer for Project that has completed the Advanced Certification for Tile Installers (ACT) certification or is Ceramic Tile Education Foundation Certified.

Q141: Specification section 033000-5, 2.7, A notes Penetrating Liquid Floor Treatment, please confirm this is only to be applied at floors designated SC-1, Sealed

Concrete or advise otherwise.

A141: Confirmed.

Q142: Specification section 042000-6, 2.3, C, 1 notes “Where fire resistance rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction”. Stamped and/or labeled CMU units are not typically used in this region and are very expensive. All relevant building codes and the IBC (Section 721) typically reference the calculation method (equivalent thickness) in determining the specified fire-resistance ratings for CMU. Please confirm stamped/labeled CMU are not required and the calculation method (equivalent thickness) is acceptable.

A142: Yes this is acceptable

Q143: Specification section 064113-4, 2.3, F notes Mortensen Woodwork, American Walnut Natural as the species and Quartered Makore as the cut. Specification section 064400-4, 2.2, E notes the species as “species”. It appears most of the drawing elevations note the species as Makore. Please confirm Makore is the species that is intended for the Wood-Veneer-Faced Architectural Cabinets and Panels.

(NOTE: Mortensen Woodwork has noted that due to their current estimating workload, they will not be able to provide pricing by the current bid date)

A143: Confirmed.

Q144: Will the Makore species still adhere to the LEED Silver, FSC requirements since it is an African hardwood?

A144: Yes it meets the FSC requirements.

Q145: Specification section 092713 Glass-Fiber-Reinforced Plastic Fabrications – keynotes 062013.13 cornice is noted on A-141 and there is not a similar specification section, prefinished FRP cornice is noted on A-204 and other drawings, prefinished fiber cement board fascia is noted on A-204 and other drawings and there does not appear to be a specification for this product, keynote 092713.01 notes glass fiber reinforced fabrications. Please advise if all of these designations/notes and similar are to be included as part of specification section 092713 Glass-Fiber-Reinforced Plastic Fabrications.

A145: Yes the GFRP is in spec section 092713 for the exterior cornices etc.

Q146: Detail 3/A-532 notes “GRFC attached to horizontal cold formed metal channel”, however we do not have a specification for GRFC. Please advise if this should be a 092713 Glass-Fiber-Reinforced Plastic Fabrications product.

A146: Yes

Q147: Details 13 and 14 on drawing A-411 and details 1, 2, 3, 4 on A-417 seemed to be missed labeled. Can you please confirm that the toilet accessories note 19 “powder coated metal – prefab tilt. partition” is correct toilet accessories note.

A147: These should be #9 wall mounted toilet paper dispenser.

Q148: On the interior glazing legend found on A-610, GL-10 mentions a note to see spec section 122219. Please confirm this is supposed to be spec section 102219.

A148: Confirmed

Q149: A-456 shows a typical steel access ladder keynoted 055000.32. The detail is referenced on A-131 where the ladder keynote is 055000.35 – Aluminum ship’s ladder. Confirm the ladders are to be fabricated of steel. Verify if guardrails are needed at the openings adjacent the ladders on A-131 and if needed, please provide a specification and detail.

A149: Ships ladder shall be steel. Refer to spec section 055000 - Metal Fabrications for guardrail requirements.

Q150: A-720 shows a typical courtroom plan with handrails keynoted 055100.28 – Steel handrail. The enlarged plan is referenced on A-701 where the handrail keynote is 055213.11 – Stainless steel handrail as indicated in Section 1 on A-723. Confirm if the handrails are to be fabricated of steel, or stainless steel. Verify if the handrails at ramps to Corridors 2201 and 2221 on A-121 are to match courtrooms. If not, please provide a specification for them.

A150: Handrails are to be wood to match the courtrooms refer to 064400 ORNAMENTAL WOODWORK

Q151: There is no specification section describing steel pan stairs. Will a metal pan stair specification be issued?

A151: See spec 055113 Metal Pan Stairs issued as part of this addendum.

Q152: Details on AS-111 and AS-112 describe handrails at site steps as Steel Handrail – Powder Coated Black. Specification section 055213 calls for exterior rails to be galvanized. Is the correct finish for the exterior rails at ramps and steps galvanized and powder-coated black?

A152: The correct finish is Powder Coated Black

Q153: Please have the engineer address the support for areaway grating in Detail 3/S-303 from the plan on S-101A. The angle size indicated is not large enough for the leg to project through the brick face. Can a better detail be provided? Please verify if

there is one areaway with grating on the south side of the building or two areaways with grating.

A153: Provide L6x6x5/16 in lieu of L2x2 shown. There are two area ways with grating.

Q154: Please confirm that Door Type G, as shown on drawing A602 Door Schedule is not used on this project.

A154: This door type is for door 600A at the secure judicial parking.

Q155: Please see the following questions regarding the micropile scope of work.

- a. Under paragraph 4.3.A of the Micropile Foundations specification (316333) are proof tests to be tested to 1.3 or 1.6 of design load?
- b. Is there a pay item for grout takes over a pre-determined amount of neat volume?
- c. To minimize re-drilling and grout takes, can we two stage grout, provided we can confirm grout is up in the casing (bond zone filled)?

A155: Responses are as follows:

- a. 1.6 of Design Load.
- b. No
- c. Grouting is only permitted as described in 316333.3.5.

Q156: Confirm the Bollards on Pavement, referencing 6/S301 on S100B and Secure Parking area bollards, keynote 055000.05 on A101 are to be included in the miscellaneous metals scope. Bollards are indicated in this area on plan on AS103 referencing detail 8/AS112 which does not exist. Confirm the bollards are to be per details 6 or 7/S301.

A156: Confirmed.

Q157: Please provide additional information for bidding the Bollard with keynote 055000.05 on A111 outside Door 1100A at top of the Public Entrance Steps.

A157: See response to Q50.

Q158: Where does Standard Bollard in the detail on C103 get used? Should two of these be located at each Card Reader/ Keycard Access Intercom on plans on AS101 and C109? Is this to be used at the trash dumpsters on plans on AS101 and C109?

A158: The standard bollard is used for the two at the card reader and all other bollards shown within the secured lot on sheet C-109.

Q159: Confirm the 42" Handrails noted at Semones Parking Lot in Plan 16/C112(bottom-

left of drawing) are not to be included in the MM scope. If included, please provide a detail reference and advise material type and finish. Is 42" too high for ramp handrails?

A159: Note that these handrails are placed on top of the walls for fall protection. A 42 inch height is appropriate for these rails.

Q160: A-720 shows a typical courtroom plan with handrails keynoted 055100.28 – Steel handrail. The enlarged plan is referenced on A-701 where the handrail keynote is 055213.11 – Stainless steel handrail as indicated in Section 1 on A-723. Confirm if the handrails are to be fabricated of steel, or stainless steel.

A160: See response to Q150.

Q161: Verify if the handrails at ramps to Corridors 2201 and 2221 on A-121 are to match courtrooms. If not, provide a specification for them.

A161: Yes, See response to Q150.

Q162" The curtain wall specifications say blast and large missile impact but there is no mention of insulated laminated glass that is specified. Please Clarify.

A162: See response to Q1.

Q163: There is a window specification calling for AA6400 Canadian windows. Where are these located?

A163: See response to Q4.

Q164: The security window specification is calling for bullet proof products. Kawneer has no bullet resistant frames. Are bullet resistant frames required?

A164: See response to Q6.

Q165: Per the architectural drawing the majority of the project is bullet resistant. Kawneer has no bullet resistant frames. Are bullet resistant frames required?

A165: See response to Q5.

Q166: Per the frame schedule 601T (2x6 storefront) is detailed. There is no storefront specification. Please provide the details for frames 601T?

A166: See response to Q7.

Q167: Per the frame schedule only a dozen elevation types are standard non bullet resistant frames? Is this correct?

- A167: Refer to A-200 series elevations and A-613 for extent of bullet resistant frames and glazing.
- Q168: Please confirm that motorized roller shades (WS-1) are only to be provided at window types W13G & W13H in Room 1221.
- A168: See response to Q16.
- Q169: Please confirm that manual roller shades (WS-2) are to be provided at all exterior window locations (excluding stairwells & exterior door locations) on the Ground, 1st & 2nd Floors.
- A169: See response to Q16.
- Q170: Glazing 1600 System 3 is specified but I don't see this as an inside glazed application and they're only requiring a .57 U value
- A170: Provide curtainwall system as specified
- Q171: Storefront/Curtainwall manufacturers will not provide pricing for a blast rated system without blast design criteria. Please provide.
- A171: See response to Q31.
- Q172: A note on 1/S-100A indicates that micropiles are to be installed under the site retaining wall located plan EW from CL 6 to CL 9 and just north of CL R; however, the SG drawings do not show micropiles under this retaining wall. Please advise.
- A172: Micropiles are required at this wall. See attached 13/S-310 for revised foundation rebar at this location.
- Q173: A trench drain is shown at the Mechanical Equipment Areaway (1/A-101); however, it is not labeled as a trench drain from the keynotes list (221423.01). Please advise.
- A173: Confirmed. Also, see P-100.
- Q174: Drawing sheet 1/S-105 "Denotes Slab Edge" and references section detail 19/S-414, that indicates a concrete curb along this wall. Please confirm that a curb is needed in this location and to what extent.
- A174: Curb applies at full perimeter of penthouse.
- Q175: Drawing TT-002 shows Verizon and Comcast handholes and related ductbanks. The Verizon pathway is shown in the footprint of the cemetery. Please confirm if we need to go onto the property of the cemetery to install this utility or not. If so, how do we address the existing cemetery fence that would be in the way of this?

A175: Refer to drawing C-127B for all the dry utilities around the cemetery and we do not enter the cemetery.

Q176: Will the County have a third party construction manager working on this project? If so, has that firm been identified?

A176: Yes the County intends to have 3rd party Construction Support Services. No that firm has not been identified.

Q177: Can the quality control manager for this project have duties other than quality control or must this be a separate, dedicated staff member?

A177: Dedicated, refer to specification section 014516.13.3.4.2, 2nd paragraph.

Q178: On page A-632 Wall partitions, there is a drilled & epoxy dowel at the base of the reinforced masonry partitions, M6-F, M8F, and M8 & M8D which is good, but why is it that the heaviest reinforced masonry wall type M8S320-F doesn't have drilled and epoxy dowels.

A178: See response to Q88.

Q179: Same page, this drilled dowels are shown as 5" long, shouldn't this dowels be long enough to be lapped with the vertical reinforcing, #5 and #7 rebar?

A179: See response to Q89.

Q180: A note on Section 5/ A-632 reads, 8" CMU W/NO.5 BARS AT 8"CTS EACH WAY EACH FACE, meaning a double #5 bar on each cell and a double #5 bar horizontally on every course, correct?

A180: See response to Q90.

Q181: Same section as above. Partition Type M8S320-F will require the use of "Ivany Block". Is this correct?

A181: See response to Q91.

Q182: Same section, same Partition Type M8S320-F on the description at the base of the picture it says 6" CMU, but the note says 8" CMU; is it an 8" or a 6" CMU?

A182: See response to Q92

Q183: Reference sections 2-4 on A-632 just above the ceiling height, there is a small circle just under the mortar joint; is this a horizontal rebar on a notch block? If it is, please provide bar size and spacing.

A183: See response to Q91.

Q184: Per the notes listed on fixture schedule for fixture type H and S, it refers to drawings A-740 for location and quantities, however, it is not shown on that plan. Please advise.

A184: See response to Q65

Q185: It appears that there are no micropiles required outside of the footprint of the new building and new tunnel. For example, we do not see any under site retaining walls, site utilities, pole bases or other improvements. Please confirm that this is correct.

A185: Correct with the exception of the retaining wall from Lines 6 to 9 just north of Line R which requires piles.

Q186: The main floorplan on drawing E-200 shows underground electrical conduit. Please clarify the depth of said conduit and confirm that the layout has been coordinated with grade beams.

A186: Conduit/Raceway depths shall be per Table 300.5 in the NEC. Note that under a building, there is no specific depth requirement and this should be coordinated with site and field conditions. Raceway paths indicated on Drawing E-200 have taken grade beams in to consideration, however the Contractor will be responsible for final paths.

Q187: Reference specification section 31 2000 section 3.08. Who specifically has the authority to direct authorized additional excavation and replacement earthwork activities? Will that person be onsite full time when earthmoving operations are going on or will there be a delay to get approval to proceed after the proofroll process is complete?

A187: Loudoun County Construction Manager.

Q188: Omitted

Q189: Reference specification section 31 2000. Section 3.04.A.2 requires us to "remove rock to lines and grades indicated to permit installation of permanent construction without exceeding the following dimensions..." Please confirm that we are not required to remove rock to the dimensions listed in a through f below that statement but rather if we have to remove rock to permit installation those are the maximum dimensions that we can remove to. Is that correct?

A189: That is correct.

Q190: Reference specification section 31 2000. Section 3.05.A.2 requires us to stop excavations for pile foundations 6 to 12 inches above bottom of pile cap and to drive piles at that elevation and then complete the remaining excavation when ready to place concrete. Will a soil bearing test and inspection be conducted at this elevated grade before micropiles are installed and if so will a failure of that test result in compensable additional excavation?

A190: A bearing test will not be performed at foundations with piles. The contractor needs to provide a suitable working surface for construction of the pile caps.

Q191: Detail 10 on drawing P-001 indicates that in ground plumbing pipes shall be supported from the slab above. We have the following questions related to this:

- (1) Do all underground plumbing pipes below the building slab on grade require these hangers?
- (2) What is the spacing and frequency of these hangers for all types and sizes of utilities that require these hangers? Include straight runs as well as at bends or turns.
- (3) What happens when plumbing pipes leave the building and are no longer located below structural slab on grade? Are additional supports required for these?
- (4) Do electrical conduits need to be hung from the structural slab on grade also? If so, please provide the following:
 - (a) What size electrical conduits need to be supported in this way?
 - (b) Typically electrical conduits get grouped together for runs and, above ceiling, are hung on racks. If these are required to be hung from the slab then please provide a detail for how this is to be accomplished.

A191: 1. Yes, based on the likelihood of sink holes opening up in the area – the underground piping is to be installed ‘hung’ as well as supported by the pipe bed, so that a sink hole in any location will not cause a pipe support failure.

2. Spacing requirements shall be the same as specification for the same system types within the building which are suspended from slabs above. In the event of a sink hole, these pipes become hung pipes.

3. No.

4. Yes.

a. All electrical conduit.

b. Provide (2) #4 continuous hanger rebars with 90 degree ACI hook at each end to hang duct banks from structural slab on grade. Extend rebar from bottom of duct bank to top of structural slab on grade. Encase each hanger rebar in 8” dia. concrete in sonotube to provide concrete cover for hanger rebar. Hanger pairs to be located every 6’ along length of ductbanks.”

Q192: The scope of work of this project requires installation of deep footings near the edge of the existing cemetery. So that we can evaluate if temporary shoring is necessary along that edge can you provide the depth of existing fence footings as well as the depth of any placed materials within the footprint of the cemetery that may be located along the border with this project site?

A192: Footings are 2 to 4 feet deep per previous email. Existing cemetery fence shall be protected at all times.

Q193: The stair and rail details on sheets A451 thru A456 specify steel stair and landing framing, but aluminum guardrail. However, the rail to stair connection details are all shown as welded. This is impossible. Is the rail intended to be painted steel?

A193: No, the rail is not intended to be painted steel.

Q194: Based on the site and access constraints it appears that a tower crane may be necessary or desired for this project. We have the following questions regarding this possibility:

- a. Are there any air or other restrictions in the county or town that might prevent the use of a tower crane?
- b. Is the engineer willing to explore designing a temporary opening in the structure to support having a tower crane? We understand that this would likely require compensation from the contractor but we want to know if it is at least a probable outcome that an opening can be incorporated
- c. Can the foundation for a tower crane be abandoned in place as long as it is not in conflict with any utilities or permanent footings?

A194: See Below:

- a. Yes an FAA determination of no hazard to air navigation permit will be required due to proximity to the Leesburg Airport. The contractor will be required to verify any and all requirements.
- b. No.
- c. No.

Q195: Please reference Door Schedule Vol 2 on Sheet A-602 – Door #'s ST01A, ST01B, ST01C, ST01D, ST01E, ST01F and ST01G have Remark #8, however, the Door Remark Schedule does not have a designation for remark #8. Please provide the remark information for the above referenced doors.

A195: Remark #8 can be disregarded.

Q196: 22413 2.2 C. "Crank and Gear..." This is redundant when applied to subsection B. with Chain and Clutch Operating Mechanism. May we exclude Crank and Gear Operating Mechanism?

A196: See response to Q11.

Q197: 122413 2.2 H. 1-8 Lists all available installation accessories. Most of these are mutually exclusive. Plans only show concealed pocket. May we exclude everything except the 4. Recessed Shade pocket and 5. Closure panel and Wall Clip? Side and Sill channels are not necessary for solar filtering shades. May we exclude Side and Sill Channels?

A197: See response to Q12.

Q198: 122413 1.2 A. 1-2 Lists manual and motorized shades. Drawings do not make distinction. Which is required?

A198: See response to Q10.

Q199: 122413 2.3 B. 3. A-i lists all available motor controls for Motorized Shades. Please select one type of control if Motorized shades are, in fact, required.

A199: See response to Q13.

Q200: Shows shades in pocket. Who is responsible for pocket? Is this typical of all shades at exterior windows?

A200: See response to Q14.

Q201: A-621 3% shades (WS-2) noted at "Exterior windows". Does this include curtain walls? Doors? Transoms? Are these manual or motorized shades? Blackout shades (WS-1) are noted at "Clerk Window". Is this for all windows at Clerks' Service Counter?

A201: See response to Q16

Q202: Details 1-3 on A-318 shows 072100.C-R15 (3" Foam-Plastic Board) under the concrete deck at Secure Judicial Parking and 4/A-318 shows 072100.R31 (Spray-applied Foam Insulation) under the concrete deck at Secure Judicial Parking. There are several examples of rigid insulation and spray foam being identified in the same areas making it difficult to quantity/understand. Please clarify the intent for spray foam insulation.

A202: See response to Q54.

Q203: Drawing E-301 shows (9) type F1 fixtures, however I believe they should be type F4 based on C-134. If this is correct, these fixtures are to be provided (F&I) by the utility company. Can you confirm this includes the fixture (pole and head), concrete base, circuitry and controls?

A203: Correct, these are type F-4 fixtures per sheet C-134 and will be provided by Dominion Energy. Typically the site contractor will install the conduits and

the junction boxes. Note that the boxes will be supplied by Dominion but not the conduit. Dominion will then come in at the very end and install the light poles and fixtures. They will tie the lights into the boxes, run all wire and connect to the power supply. Note that these are direct bury poles...no foundations.

Q204: Drawing E-301 shows (67) type EW1 fixtures; however C-134 indicates (60). Which is correct?

A204: sheet C-133 and C-132 identify 62 EW-1 fixtures and should be held

Q205: Drawing E-301 shows (86) type EW3 fixtures; however C-134 indicates (80). Which is correct?

A205: Sheet C-134 shows 80 EW-3 fixtures and this count is correct and should be held.

Q206: Assuming fixture FG1 shown on C-133 and C-134 is the same as fixture EF1 on E-001 and E-301 (please confirm); drawing E-301 shows (8) type EF1 fixtures; however C-134 indicates (7). Which is correct?

A206: The FG-1 and EF-1 designations are referring to the same fixture. C-133 and C-134 reflect 7 fixtures which is correct and should be held.

Q207: Which exterior light fixture takes precedence? The one shown on C-134 or E-001?

A207: See responses to questions 204, 205, and 206

Q208: No pole base detail is provided for fixture type F3; only F1 and F2 (A1/C-135). Please provide a detail for type F3's pole base.

A208: The F3 fixtures located in the secure lot will use the same detail (A1/C-135). The F3 fixtures located at the low plaza wall near the elevator lift will be attached to the top of the wall-see section 23/S-303.

Q209: Specification section 262416-2.3-O states any panelboard that is directly downstream of a transformer, ATS, or directly fed from the switchboard must have a SPD; however this is not shown on the riser diagram or panel schedule. Please verify if this is a requirement.

A209: This is a requirement; provide per 262416-2.3-O.

Q210: Per specification 262416-2.4-A, should panels HEL and/or HSG be fusible coordination panelboards?

A210: HSG and HEL are not required to be a coordination style panelboards.

Q211: Spec 270536-2.04-B calls for stainless steel basket tray; however, 270523-2.03-7 calls for zinc plated steel hardware and fasteners. Does the basket tray have to be stainless steel if the hardware and fasteners can be zinc plated steel?

A211: tray can be zinc plated to match the hardware

Q212: Below room 0507 on TT-102 there is a "cable tray" note' however no cable tray is shown. Is cable tray required here? If so, please indicate it on the drawing.

A212: Cable tray is not required in Corridor 0500B outside Janitor Closet 0507.

Q213: Could the scale on TT-002 be verified? I believe it's incorrect.

A213: The scale is 1/16"=1'-0".

Q214: What fire alarm system is installed in the existing court house?

A214: GC to field verify.

END OF QUESTIONS