

Preconstruction Questions and Answers

ITEM	DESIGN DISCIPLINE	SHEET / SPECIFICATION	SECTION / DETAIL	AUTHOR	QUESTION DATE	QUESTION	RESPONSE	RESPONSE BY	RESPONSE DATE
1	General	N/A	N/A	Balfour Beatty	11/13/20	During the design presentation on 11/11/2020, it was mentioned that the various clusters of the building would be designed in different sets and coordinated. Can you please confirm the clusters and the extent of each in a colored diagram?	We can work out the precise structure of the Construction Documents with the CM, but it is our preference to develop a coordinated set of interior and exterior details for each of the major pieces of the project. For example, a package for the stairs, the elevators, the exhibit hall, the Hall of Valor, the Leadership Hall, etc. This can be discussed further.	RVA	11/17/20
2	Architectural	pg. 283 of Narrative	Aerial	Balfour Beatty	11/13/20	Reference the aerial rendering on page 283 of the narrative. The rendering indicates a star graphic on the roof. Please confirm that the PVC roof is to two (2) custom colors to create the "star" feature / graphic.	The iconography for the project remains undefined, however you can assume two standard colors of Sarnafil roofing for the Exhibit Hall	RVA	11/17/20
3	Audio Visual	pg. 50 of Narrative	Room Data Sheets	Balfour Beatty	11/13/20	Narrative notes restroom lighting control to be dimmable and connected to preset dimming system and interface to local AV control system. This configuration is not typically seen for restrooms which will require adequate illumination for the safety of occupants as well as IES recommendation for foot candles required. Please confirm if lighting should be connected to occupancy sensors and not dimming and also confirm if an AV system will or will not be required in the restroom with lighting control to interface.	Lighting in restrooms is to be controlled by occupancy sensors.	RVA	11/17/20
4	Audio Visual	pg. 46 of Narrative	Room Data Sheets	Balfour Beatty	11/13/20	Narrative notes projector for workstations. Please confirm if this is by mistake or if workstations 1.0.8.1, 3.11, 8.7, & 8.17.2 will each require a projector.	No projector is required. See Basis of Design, issued 13 November 2020 for updated Room Data Sheet.	RVA	11/17/20
5	Structural	S111	N/A	Balfour Beatty	11/13/20	Reference the perimeter retaining wall grade beam, mega column pile cap, typical pile cap and linking grade beams. The depth of the retaining wall grade beam is noted as 36" deep on S502, but please provide anticipated depths for the other components noted as well as anticipated reinforcing LBS/CUYD.	To be developed for 100% Schematic Design and into Design Development.	RVA	11/17/20
6	Structural	S111	N/A	Balfour Beatty	11/13/20	Reference the pile diameters on S111. All are currently drawn as 24". Please confirm penetration depth and anticipated reinforcing for the mega column pile cap, retaining wall grade beam and typical cap.	Penetration depth to be developed for 100% Schematic Design and into Design Development. Depth into Grey Shale load bearing strata of 10' to 15' is anticipated.	RVA	11/17/20
7	Structural	S111 / A103	N/A	Balfour Beatty	11/13/20	Reference the exterior amphitheater, meeting room terrace as well as the café terrace. Please advise if all of these exterior spaces require the structured slab condition or if it will be more typical sidewalk / subslab and pavers. S111 currently implies the main entrance ramp and a portion of the amphitheater have the structured slab.	Currently envisioned as structural slab with pile and beam support, to be developed through Design Development.	RVA	11/17/20
8	Structural	S111	N/A	Balfour Beatty	11/13/20	Reference the structure currently indicated for the main entrance ramp. The perimeter grade beam is shown on the northeast and southeast to support the retaining wall needed at these locations. However, it is also shown on the northwest edge where the ramp begins at grade. Please provide a section illustrating how the grade beam should step and/or how the ramp should be supported.	To be developed for 100% Schematic Design and into Design Development. We anticipate that the foundation for the ramp will slope up to grade at the northwest edge, but still be pile supported.	RVA	11/17/20

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9	Structural	S111/A111	N/A	Balfour Beatty	11/13/20	Reference the Information Desk shown at the southeast mega column. Please confirm the intent to place this space within one of the primary structural column.	That is our current preference, and we will need to work with the structural engineer to resolve. If it proves to be difficult and/or expensive, we will look for alternate locations for the info desk.	RVA	11/17/20
10	Structural	A470	N/A	Balfour Beatty	11/13/20	Please provide the anticipated structure required at the cooling tower area (on grade only, pile required, retaining wall size, etc).	You can assume a retaining wall and a slab on grade.	RVA	11/17/20
11	Structural	S111/A825	N/A	Balfour Beatty	11/13/20	Reference the tiered seating layout at the theater. Please advise if the stepped floor / adjacent walls will be created with stepped concrete or with metal studs (or other method) over a flat concrete slab.	It is our assumption that the stepped floor would be built up with steel framing on a sub structure. We would explore providing low velocity air through grilles in the stepped floor. However, we would welcome your opinion as to the most economical structural framing solution.	RVA	11/17/20
12	Structural	A103	N/A	Balfour Beatty	11/13/20	Reference the retaining walls along the north edge of the property both east and west of the loading dock entrance. Please provide anticipated detailing and/or a schedule for these walls.	These walls will be formed with steel forms from standard grey concrete. Is this sufficient for you to price?	RVA	11/17/20
13	Architectural	A111/A630	N/A	Balfour Beatty	11/13/20	Reference the entrance to the loading dock. Please advise if an overhead door will be required to secure this space. The section on A353 appears to show one.	An overhead door is to be provided.	RVA	11/17/20
14	Structural	A455	N/A	Balfour Beatty	11/13/20	We reference this section as a typical structure below a green roof. A model image was shown during the design presentation on 11/11/2020, but please provide a preliminary steel framing plan and/or LBS/SQFT for this condition. Furthermore, would the team be interested to revise the structure to a cast-in-place flat slab at this condition? The underside of the slab would be very clean likely providing more above ceiling clearance and provide a preferred waterproofing transition from the retaining wall, to concrete slab to a concrete termination wall (in lieu of indicated CMU) at the roof edge.	We would definitely accept your suggestion to revise to cast-in-place concrete for the reasons you provide. Long span structure over the loading area is envisioned to be steel structural frame.	RVA	11/17/20
15	Structural	S410/S411	N/A	Balfour Beatty	11/13/20	Reference the steel members for both the floor and roof framing. Please provide anticipated member sizes / weights for the various components noted.	Weights are be developed for 100% Schematic Design and member sizes during Design Development.	RVA	11/17/20
16	Structural	A114/A485	N/A	Balfour Beatty	11/13/20	Reference the mechanical mezzanine. An image was shown during the design presentation on 11/13/2020 showing substantially more floor space at this level to support mechanical equipment. Please provide additional architectural and structural information. Furthermore, the rooms were shown separated. Please advise if a catwalk system or similar is required to access each space. Lastly, please advise if the service elevator will extend to this level to get replacement equipment to the floor for future maintenance purposes.	We will provide additional drawings. The exhibit level is to be designed by Gallagher & Associates. As we receive more information, we will provide further developed documentation. The mezzanine structure is to be further developed during Schematic Design and Design Development.	RVA	11/17/20


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17	Architectural	A640, A8XX series, RCPs, Design Narrative	N/A	Balfour Beatty	11/13/20	Several rooms have contradicting finishes between the Finish Schedule, Design Narrative, RCPs, and Enlarged Drawings in the A8XX series. Please clarify takes precedence. Examples not below: - Divisible meeting rooms: ACT on A640 vs gypsum on A151 - Admin / Open office: ACT on A640 vs gypsum on A151 - Reflection space: glass on A640 vs gypsum on A151 - Theatre: Wood on A640 vs gypsum on A151 vs acoustical ceiling system on A825 - Theatre: wood walls on A640 vs acoustical panels on A825 Rotunda of Honor: Stone floor on A640 vs Terrazzo on A815 Hall of Valor: Limestone floor on A640 vs Terrazzo on A820	Refer to A640 Finish Schedule, issued 13 November 2020.	RVA	11/17/20
18	Architectural	A151	N/A	Balfour Beatty	11/13/20	Please clarify ceiling type C9 in loading dock area.	Painted exposed underside of slab. Color is to be determined.	RVA	11/17/20
19	Architectural	A152	N/A	Balfour Beatty	11/13/20	Please clarify ceiling type MP-4 in main lobby canopy.	Same metal panel type as exhibition level.	RVA	11/17/20
20	Architectural	A425	N/A	Balfour Beatty	11/13/20	Please clarify floor finish at spiral stairs.	Terrazzo.	RVA	11/17/20
21	Architectural	A640	N/A	Balfour Beatty	11/13/20	Please confirm if restroom walls are to be full height tile at all walls.	Yes, full height tile at all walls.	RVA	11/17/20
22	Architectural	pg 186 of narrative	N/A	Balfour Beatty	11/13/20	Please confirm that an underslab waterproofing membrane is intended for the entire slab on grade area.	Underslab waterproofing is required in all occupied spaces and for the passenger elevator and freight lift. It is not required in the open Rotunda area.	RVA	11/17/20
23	Architectural	A111 & A455	N/A	Balfour Beatty	11/13/20	Please clarify if the exterior glass at that the leadership institute and café is to be segmented or curved / bent glass?	Faceted	RVA	11/17/20
24	Architectural	A111 & A455	N/A	Balfour Beatty	11/13/20	Please clarify if the glass handrail above the the leadership institute, rotunda, and café is to be segmented or curved / bent glass?	Faceted	RVA	11/17/20
25	Structural		N/A	Balfour Beatty	11/13/20	Reference the top of precast column condition. Please clarify how MEP services (support structure & how) running through the column transition through the top of the column and enter the exhibition hall. Also please clarify the following for the same condition: i. Is it going to be open air pipe that will need to be provided with freeze protection or changed over to GRC for conduit? ii. Will we need to provide some type of enclosure that wraps around the MEP pipe and conduit to conceal it? iii. Any need for rodent protection of insulation materials? iv. With conduit / wire being exposed to ambient temperatures will we need to factor to a higher rating for conductor size? v. Any two hour ratings required for emergency feeds? vi. Location for isolation valves and contingency plan if a leak ever occurs in column pipe riser?	The top of the column structure is expected to have a roughly 4' diameter opening to the structural bay below the exhibit floor and availability to extend services to the exhibit level ceiling as well. We plan to use that zone to extend conduit and piping between the levels. ii. We anticipate that it will be enclosed by the structure and insulated. iii. Not anticipated iv. Will evaluate this as the design develops v. Yes, for life safety and fire pump feeders vi. Yes, access to columns is being coordinated	RVA	11/17/20

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26	Structural		N/A	Balfour Beatty	11/18/20	Multiple options are being studied for the structural precast columns supporting the exhibition hall such as, steel column clad with architectural precast, cast in place concrete, and shotcrete over single sided form. Please provide structural recommendations for steel column options as well as concrete thickness and reinforcing for the CIP concrete and shotcrete options.	All of the solutions you present have been reviewed, and it is our feeling that stacked structural precast units are the most economical solution for these columns. However, we welcome your thoughts on more cost effective solutions that we can explore.	RVA	11/17/20
27	Civil	C200	N/A	Balfour Beatty	11/13/20	Please delineate between "AREA 7" and "AREA 10" on demolition plan. Drawings are unclear.	The boundary between Area 7 and Area 10 is the center stripe of the head-in parking north of the property line. Area 10 is approximately 60' wide from the existing curb on the large parking lot island South to the center stripe of the head in parking.	RVA	11/17/20
28	Civil	C200, C300	N/A	Balfour Beatty	11/13/20	Paving plan on C300 notes existing drive entry and HMAC pavement insinuating this pavement is to remain; however, these areas fall under "AREA 7" which is to be demolished. Please clarify.	Note refers to Area 10; The drive entry modifications indicated on the Paving Plan require removal and replacement of these parking lot areas. The demolition limits of Area 7 should extend to accommodate the proposed paving modifications. The existing drive approach connection to AT&T is not intended to be modified and will not be demolished. Modifications will begin at the east edge of concrete of the existing approach.	RVA	11/17/20
29	Civil	C500	N/A	Balfour Beatty	11/13/20	Please confirm domestic water service line is to be 12" PVC.	We anticipate one (1) at 8" for combined DW/FP water service and one (1) at 6" for secondary FP service, pending water company and AHJ approval of concept.	RVA	11/17/20
30	Civil	C500	N/A	Balfour Beatty	11/13/20	Please confirm fire service line is to be 12" PVC.	See response to RFI 29.	RVA	11/17/20
31	Architectural	pg 186 of narrative	N/A	Balfour Beatty	11/13/20	Please confirm that an underslab waterproofing membrane is intended for the entire slab on grade area.	Underslab waterproofing is required in all occupied spaces and for the passenger elevator and freight lift. It is not required in the open Rotunda area.	RVA	11/17/20

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32	Structural	S111 / A103	N/A	Balfour Beatty	11/13/20	<p>Reference the attached overlay of the structural foundation plan and the site plan. Note the retaining wall footing at the main entrance and loading dock entrance both extend beyond the property line. Please advise.</p> 	<p>Framing plan will be adjusted to stay within the property line. Ongoing coordination of the site plan and foundation will continue during Schematic Design and Design Development.</p>	RVA	11/17/20
33	Civil	C300	N/A	Balfour Beatty	11/13/20	<p>Please clarify proposed elevations on grading plan.</p>	<p>Refer to site grades shown on the landscape 200 series for the on-site grading within the limits of the Museum property.</p> <p>Grading will be required within the parking lot modification areas to provide consistent and acceptable slopes for the buses and limousine. Roadway grades match existing conditions within Area 10.</p>	RVA	11/17/20
34	MEP/F	General		Balfour Beatty	11/13/20	<p>What is your over desire or vision for the MEP systems as it relates to aesthetics with of the building?</p>	<p>Enclosed / not visible</p>	RVA	11/17/20
35	MEP/F	General		Balfour Beatty	11/13/20	<p>Please clarify the following related to MEP services transitioning through the precast columns: Any free</p>	<p>Withdrawn</p>	Balfour Beatty	11/17/20
36	MEP/F	General		Balfour Beatty	11/13/20	<p>Please provide the location for the Central Plant and Generator?</p>	<p>Refer to M050 and M201.</p>	RVA	11/17/20
37	Electrical	Narrative		Balfour Beatty	11/13/20	<p>Please confirm that the Generator will need enough fuel capacity to run for 24 hours.</p>	<p>That is the anticipated duration, to be confirmed by the NMOHM.</p>	RVA	11/17/20
38	Fire Protection	Narrative		Balfour Beatty	11/13/20	<p>Will the incoming fire main be a combo fire & domestic. Will the location of the backflow preventer be inside or outside. Please confirm the second fire supply, plan southwest, is required and if it will be dedicated or a combo feed.</p>	<p>Combined is anticipated, with BFP in water service room. Requirement for 2nd service must be confirmed with AHJ.</p>	RVA	11/17/20

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39	MEP/F	General		Balfour Beatty	11/13/20	Duct work location and equipment feeding lobby space? a.Do not see equipment currently called for on the drawings feeding the lobby space, where will it be located? b.Any special hvac needs at ceiling glass to prevent condensate or will insulated glass be sufficient enough? c.Will any duct work be exposed in the lobby or will duct be routed in concealed spaces and distribute air through diffusers into lobby space? i If diffusers, what level of finish of diffusers required?	a. Lobby Units are shown in MERs on M201. b. Yes. Most likely wasking the glass with dehumidified air. c, d. Concealed, with diffusers at the partition walls	RVA	11/17/20
40	Mechanical	General		Balfour Beatty	11/13/20	The mechanical design criteria in the narrative didn't note spiral stair case conditions. Will this be cooled and heated? a.Drawing details indicate a structural steel built up box at bottom of stairs. Does this represent the path for air flow or duct work to be used b.Transition from box to diffusers, wall or floor?	Yes, heated and cooled. Path for airflow will be within the structural steel enclosure. Details to be developed.	RVA	11/17/20
41	Plumbing	General		Balfour Beatty	11/13/20	Will there be any drainage requirements for the rotunda exterior space? If so, will these be standard round drains or high finish linear trench drains	Yes. Assume high finish.	RVA	11/17/20
42	-			Balfour Beatty	11/13/20	Supplemental HVAC systems: a.Do you see the need for CRAC on this project? If so, where? b.Proposed location for smoke and evacuation fans to serve stair, elevator shafts, public assembly areas and gallery spaces? c.MEP documents note alternate Kitchen scope. i.To confirm base bid will not have a kitchen but warming stations and outside food delivery's ii.Alternate will have grease ducts, fans, MAU required for the kitchen space. 1.Also will it require a scrubber? 2.Location of the kitchen? 3 Location of grease tran? Loading dock?	a. Yes, in each IT/telco room b. Within the exhibit level mechanical mezzanine. This is to be developed. c. No cooking kitchen is anticipated at this time.	RVA	11/17/20
43	Mechanical	Narrative		Balfour Beatty	11/13/20	BMS noted in narrative to have capability to perform billing functions on site. Is this required and if so what locations?	Potential for tenancy at café/food service.	RVA	11/17/20
44	Mechanical	Narrative		Balfour Beatty	11/13/20	Narrative notes rectangular duct work wrapped first 20ft or first floor for which ever is greater. How does this translate for this project?	This is to be developed on a location by location basis.	RVA	11/17/20
45	Lighting	LT101		Balfour Beatty	11/13/20	Is the L12 light fixture going to mounted internal to mullion or will it be hung from it?	The lights will be surface mounted to the mullion with the wiring concealed within the mullion	RVA	11/17/20
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