

OPM SUBMITTAL REVIEW & COORDINATION
COMMISSIONING CONSULTANTS REVIEW

6A.2.1 - 03

100% Design Review - Commissioning

Item #	Discipline	Drawing/Spec	Cx Comment	Image Attached?	SMMA Reviewer	Designer Comment	Backcheck Closed/Open
1	ELEC	FA1-1-MB	update room tag (Room 4)		AJ	Bala will incorporate in a future submission.	
2	ELEC	FA1-1-MB	does the maintenance garage have a fully sprinkler system? If not consider adding smokes.		AJ	This building is not sprinklered. This building is not required to have a fire alarm system per 780 CMR. The FD will need to confirm if they require a fire alarm system in that building. If so, area smoke detectors will be provided.	
3	ELEC	FA1-1-MC	show room tags for all spaces (typical throughout)		AJ	This level is the mezzanine level and should only have one room tag in the space. Bala will coordinate with the architect's spaces for the next submission.	
4	ELEC	FA4-0	has the Master box connection been coordinated with local fire department?		AJ	Coordination with local fire department is ongoing. Upcoming coordination meeting has been scheduled.	
5	ELEC	T0-0-0	provide tel-data riser diagram		AJ	Tel-data riser diagram will be provided by others in a future submission.	
6	ELEC	E0-0-1	Title block project name does not match Architecture		AJ	Title blocks will be coordinated to match.	
7	ELEC	E1-1-0	HVAC duct work running over panels LP-LLB and LPH-LLB. Coordinate required clearances and drip pan, if required.		AJ	Required clearances and dedicated equipment space will be coordinated.	
8	ELEC	E1-1-0C	GFCI outlets required in electrical rooms, per NEC 210.8(E) - typ for all elec rooms		AJ	GFCI outlets will be provided as required by code in electrical rooms.	
9	ELEC	E1-1-0C	GFCI recept. required per NEC 620.6		AJ	Any outlets installed in the space will be GFCI.	
10	ELEC	E1-1-0C	Provide Two-way communication per 780 CMR 1009.8 (typical for all elevators in project)		AJ	Two-way communication will be provided in a future submission by telecom.	
11	ELEC	E1-1-4A	update key plans (typical throughout)		AJ	Key plans will be updated.	
12	ELEC	E3-0-0	show utility meter for fire pump		AJ	One line will be revised.	
13	ELEC	E3-0-0	Will the fire pump be part of the NEC required manual transfer switch operation?		AJ	Please clarify code section.	
14	ELEC	E0-1-1	Recommend spacing manholes at greater than 200 ft increments to reduce quantity. Generally utility companies accept up to 500' between manholes.		AJ	Site plan shows junction boxes as opposed to manholes. They are located as per utility requirements.	
15	ELEC	E0-1-1	Emergency transformer appears to be located on top of the generator pad.		AJ	No generator to be included on site. Plan will be revised.	
16	ELEC	E0-1-3	Is the 1200A service for the locker room building? Assume single line diagram will be included in later submissions?		AJ	Correct. Single line diagram will be included in future submission.	
17	ELEC	E0-1-3	recommend to label the locker room building		AJ	Locker room building will be labeled.	
18	ELEC	E0-1-3	Maintenance building is located past the building. Consider wiring site lighting back to the main building		AJ	We anticipate that site lighting will be wired back to main building.	
19	ELEC	E1-1-LB	will an electric or tel-data room be provided in the locker room building? Or is intent to locate panels in the field maintenance garage?		AJ	It is anticipated that locker room building will have an electric room. Maintenance building will have a panelboards and a transformer.	

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20	ELEC	E3-0-0	provide barrier sections in the gen emergency switchboard for separation of life safety and standby breakers.		AJ	Life safety and standby breakers will be in separate vertical sections.	
21	ELEC	E3-0-0	How will MTS for temp gen connection be wired?		AJ	Generator is by utility as is any temp connection.	
22	ELEC	E3-0-0	all life safety panels require SPDs		AJ	SPDs will be provided for life safety panels.	
23	ELEC	E3-0-0	MT cable is not required for Elevator transfer switch.		AJ	Will be revised.	
24	ELEC	E3-0-1	will any mechanical equipment be on emergency power to provide heat for pipe freeze protection?		AJ	Entire building is on standby power.	
25	ELEC	E4-0-1	one-line lists 200kAIC rating for main switchboard, schedule shows 65k. Confirm which is correct.		AJ	Required kAIC rating to be coordinated with utility.	
26	ELEC	TR-1	Sections reference drawings that are not included in Theatre set.		AJ	References to other drawings will be coordinated in future submissions.	
27	HVAC	M0-0-1	Project name does not match Architecture.		DT	Will revise in future submission.	
28	HVAC	M1-1-0C	Coordinate location of AHU-1.		DT	Location of AHU-1 is coordinated. Unit is located on mezzanine. Separate mezzanine plans will be included in a future submission.	
29	HVAC	M1-1-0C	Coordinate locations of FCUs with the reflected ceiling plan. See A8-1-0C		DT	Will be coordinated in a future submission.	
30	HVAC	M1-1-0D	Coordinate location of FCU 1-6 and AHU-3.		DT	Location of AHU-1 and FCU 1-6 are coordinated. AHU is located on mezzanine and FCU is located in Related CR ceiling. Separate mezzanine plans will be included in a future submission.	
31	HVAC	M1-1-1A	Ensure FCUs installed in areas with hard ceilings either have bottom access doors or an access door installed next to the unit for maintenance. See Admin wing.		DT	Access panels will be coordinated in a future submission.	
32	HVAC	M1-1-1A	Coordinate access for VAV boxes above slotted ceilings in Cafeteria. How will maintenance be performed in the future?		DT	Access panels will be coordinated in a future submission.	
33	HVAC	M1-1-1A	Coordinate location of AHU-7		DT	Location of AHU-7 is coordinated. Unit is located on mezzanine. Separate mezzanine plans will be included in a future submission.	
34	HVAC	M1-1-1B	Coordinate location of AHU-4		DT	Location of AHU-4 is coordinated. Unit is located on mezzanine. Separate mezzanine plans will be included in a future submission.	
35	HVAC	M1-1-1B	Coordinate location of AHU-5		DT	Location of AHU-5 is coordinated. Unit is located on mezzanine. Separate mezzanine plans will be included in a future submission.	
36	HVAC	M1-1-1B	Coordinate location of AHU-6		DT	Location of AHU-6 is coordinated. Unit is located on mezzanine. Separate mezzanine plans will be included in a future submission.	

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37	HVAC	M1-1-1B	Coordinate location of BS 3-2 in corridor 577 and FCU 3-7. They appear to be installed above/in a slotted ceiling. How will the units be accessed for maintenance?		DT	Locations of equipment will be coordinated with ceiling. Access panels will be coordinated in a future submission.	
38	HVAC	M1-1-2B	Consider relocating BS 4-3 to avoid duct transition in 44x14 Duct.		DT	Will be reviewed in future submission.	
39	HVAC	M1-1-2B	Is heating and cooling required for the TL T rooms?		DT	Toilet rooms are exhaust only. Perimeter toilet rooms will be provided with heat.	
40	HVAC	M1-1-3A	Will there be special HVAC requirements for the lab spaces. Biotechnology, tissue culture, etc.		DT	Any special requirements will be coordinated in a future submission. These spaces will require exhaust as indicated on the plans.	
41	HVAC	M1-1-3A	Consider relocating BS 10-4 to avoid ductwork transition in 44x16 duct.		DT	Will be reviewed in future submission.	
42	HVAC	M1-1-3C	Access to units in mechanical room may be limited. What type of access panels/doors will be required for the units and can all access doors be opened for reasonable access?		DT	All access to AHUs will be from the north side and will be coordinated with columns. All doors can be opened for code required access.	
43	HVAC	M1-1-3C	Will noise reduction measures be take for ductwork distribution to auditorium ?		DT	Acoustical consultant to provide any required noise reduction measures.	
44	HVAC	M1-1-3C	Coordinate location of 68x40 auditorium duct with rest of design team. There may be a clash with current location and other installations as shown on reflected ceiling plan A8-1-3C		DT	Ductwork will be coordinated in a future submission.	
45	HVAC	M1-1-LB	Coordinate location of ERV-6 and EUH. Will ERV have access doors on the bottom of the unit?		DT	EUH is wall mounted and ERV-6 is located above the ceiling as indicated on the plans.	
46	HVAC	M1-2-1A	Coordinate location of ERV-1. Clearance box is clashing with clearance box of HRU-1.		DT	Clearance boxes can overlap. The minimum required clearance is being maintained.	
47	HVAC	M1-2-1A	Coordinate location of MAU-2 and RTU-1. Clearance boxes are overlapping.		DT	Clearance boxes can overlap. The minimum required clearance is being maintained.	
48	HVAC	M1-2-1A	Outdoor air section of RTU-1 and HRU-1 is close to the condensing units. Ensure oa intake is required distance away from discharge of other units.		DT	There is no required separation between the discharge of a condensing unit and OA intake.	
49	HVAC	M1-2-1B	Coordinate ERV-2 and HRU-3 locations.		DT	The locations are coordinated. Clearance boxes can overlap. The minimum required clearance is being maintained.	
50	HVAC	M1-2-1B	Coordinate location of F-10 and RTU-2. Clearance box overlap.		DT	Clearance boxes can overlap. The minimum required clearance is being maintained.	
51	HVAC	M1-2-1D	Outdoor air section of RTU-3 is close to the condensing units. Ensure oa intake is required distance away from discharge of other units.		DT	There is no required separation between the discharge of a condensing unit and OA intake.	
52	HVAC	M4-0-1	FLA for RTU-3 seems like a typo.		DT	Will be corrected in a future submission.	
53	HVAC	M4-0-1	Include schedules for electric unit heaters and VAV boxes		DT	Will be included in a future submission.	
54	P	P1-0-0A	Kitchen - Will need additional interior grease interceptor for tilting kettle, tilting skillet		RM	Local grease trap for triple sink shall be sized to accommodate tilting skillet.	

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55	P	P1-1-0C	For Metal Fab/welding, where is oxygen and acetylene stored? Are they central piped systems?		RM	Oxygen/acetylene storage location TBD. Piping from storage tanks to welding booths shall be owned by plumbing.	
56	P	P1-1-0C	Boiler room - need floor drain for compressor/receiver/driver		RM	Floor drain shall be added.	
57	P	P1-1-0C	Metal Fab Garage door - If this is a drive-through door, either need bollards in front or FD inside to Gas/Oil separator		RM	Will confirm intent with Architect, and provide gas/oil separator if necessary.	
58	P	P1-1-0C	Vent for radon mitigation system is seen but below slab system missing		RM	Underslab drainage system is shown on GT drawings.	
59	P	P1-1-0D	Auto Technology - Is a second emergency shower/eyewash unit required, for coverage?		RM	Locations for emergency fixtures will be coordinated for a future submission.	
60	P	P1-1-1A	Carpentry and Plumbing - Additional emergency shower/eyewash units required		RM	Locations for emergency fixtures will be coordinated for a future submission.	
61	P	P1-1-1A	General comment - piping missing throughout		RM	Additional piping will be added as project progresses.	
62	P	P1-1-1A	Where /what is pH adjustment system?		RM	pH Neutralization system located on mezzanine level above toilet rooms.	
63	P	P1-1-1B	HVAC and Elec Tech - additional emergency shower/eyewash units required		RM	Locations for emergency fixtures will be coordinated for a future submission.	
64	P	P1-1-1B	General - Consider central hot water system and feeding emergency equipment from domestic hot/cold water with local mixing valves in locked cabinets fed from those systems in lieu of central Tepid water system. Eliminates a system, less maintenance, lower first cost.		RM	Either method is acceptable from a design standpoint. Estimating team to advise if one method has significant cost savings versus the other.	
65	P	P1-1-2A	Is there gas in Science rooms?		RM	No natural gas for science rooms.	
66	P	P1-1-2A	How is green roof irrigated?		RM	Wall hydrant located in courtyard.	
67	FP	FP1-1-0C	Metal Fabrication - How/where are oxygen/acetylene or other combustible gases stored? Special FP considerations possible		RM	The architect will determine the locations of the oxygen/acetylene. We will protect the area where oxygen/acetylene is stored/used in accordance with NFPA 13 as an extra hazard group 1 occupancy.	
68	FP	FP1-1-0C	Auto Collision - Are dry chemical suppression systems planned for paint spray booths?		RM	We are planning to use wet sprinkler protection because it is permitted to be provided for the paint spray booths. We will provide two (2) zone control valves, one for each paint spray booth, and we will be protecting the space as an extra hazard group 1 occupancy (EH1) in accordance with NFPA 13 and NFPA 33.	
69	FP	FP1-1-0C	Recommend dry system in Auto collision area - in case overhead doors left open in Winter		RM	It is BALA's understanding that this area will be heated thus, a dry sprinkler system will not be required.	
70	FP	FP1-1-0C	If floor control assemblies are within a room, suggest FD approval, and door should not be lockable		RM	All floor control valves will be coordinated with the Fire Department.	

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71	FP	FP1-1-0D	Auto Tech - Consider dry sprinkler system in case overhead door left open in Winter		RM	It is BALA's understanding that this area will be heated thus, a dry sprinkler system will not be required.	
72	FP	FP1-1-1B	Fire pump room - jockey pump piping not correct/incomplete		RM	The jockey pump piping will be provided at the discretion of the stamping engineer and will be coordinated with fire department.	
73	FP	FP1-1-1B	Wall indicator required?		RM	An alarm bell will be provided on the fire alarm drawings.	
74	FP	FP1-1-1C	Auditorium stage - FDV's missing at proscenium opening		RM	Hose connections and below the stage sprinkler coverage will be provided in accordance with 780 CMR:905	
75	FP	FP1-1-3D	Corridor 425 - protection on both sides of glass?		RM	Window sprinklers will be provided on both sides of the glass partition.	
76	Architectural	A1-1-0C	ADD EXTERIOR PLAN CALLOUTS (TYP FOR FLOORPLANS)		KS	To be developed during CD Phase	
77	Architectural	A1-1-CB1	(A1-1-CB1) IS THE INTENT FOR THE TOILET AND CONCESSION BUILDING TO HAVE THE SAME EFFECTIVE U-VALUE FOR EXTERIOR WALLS (U-0.050) AND R- VALUE FOR THE ROOF (R-30), AS INDICATED IN THE BOD?		KS	The Concessions Building by square footage falls under the 100,000 square foot threshold set by the Massachusetts Stretch Code for commercial building and thus does not need to comply. A COMcheck analysis of the building will be performed during CD's to confirm R-Values for the building.	
78	Architectural	A1-1-CB2	2/A1-1-CB2 HOW IS END OF FLASHING SECURED AT MASONRY?		KS	Flashing remains sealed to cmu but is not attached.	
79	Architectural	A1-1-CB2	A1-1-CB2 ADD EXTERIOR SECTION CALLOUTS (TYP FOR BUILDING)		KS	To be developed during CD Phase	
80	Architectural	A1-1-CB2	2/A1-1-CB2: HOW IS CAVITY FILLED BELOW GRADE?		KS	Grouted solid during veneer installation.	
81	Architectural	A1-1-CB2	2/A1-1-CB2: CONSIDER LOCATING INSULATION ON EXTERIOR SIDE OF FOUNDATION WALL TO REDUCE THERMAL BRIDGING THROUGH FOUNDATION (TYP)		KS	Comment under consideration.	
82	Architectural	A1-1-CB2	(A1-1-CB1) IS THE INTENT FOR THE TOILET AND CONCESSION BUILDING TO HAVE THE SAME EFFECTIVE U-VALUE FOR EXTERIOR WALLS (U-0.050) AND R- VALUE FOR THE ROOF (R-30), AS INDICATED IN THE BOD?		KS	See item #77	
83	Architectural	A1-1-CB2	2/A1-1-CB2: CONSIDER LOCATING FLASHING MIN 8" ABOVE FINISH GRADE (TYP)		KS	Exterior paving (sidewalk) shown at this location, will verify if sidewalk is required, section to be corrected as needed. Flashing line should remain level if grade is consistent.	
84	Architectural	A1-1-CB3	9/A1-1-CB3 - CONSIDER COMPOSITE Z-GIRT SYSTEM, TYPICAL FOR ATTACHMENT OF RAINSCREENS.		KS	Comment under consideration.	
85	Architectural	A1-1-CB3	4/A1-1-CB3: SILL PAN WITH END DAMS NOT SHOWN		KS	Notation for "end dams" to be added.	

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86	Architectural	A1-1-CB3	5/A1-1-CB3: BLOCKING DOES NOT APPEAR TO BE SUPPORTED		KS	Additional blocking to be added at outside face of bond beam.	
87	Architectural	A1-1-CB3	5/A1-1-CB3: RECOMMEND PROVIDING SECTIONS OF TYPICAL WALL ASSEMBLIES WHICH DOCUMENT INDIVIDUAL COMPONENTS AND MINIMUM REQUIRED R-VALUES (TYP)		KS	This is under consideration for all project wall assemblies.	
88	Architectural	A1-1-LB	(A1-1-LB) IS THE INTENT FOR THE LOCKER BUILDING TO HAVE THE SAME EFFECTIVE U-VALUE FOR EXTERIOR WALLS (U-0.050) AND R-VALUE FOR THE ROOF (R-30), AS INDICATED IN THE BOD?		KS	Yes, The Locker Building is intended to have the same effective U-Value for walls and Roof as the Main Building	
89	Architectural	A1-1-LB	(A1-1-LB) ADD ENLARGED EXTERIOR WALL PLAN DETAILS FOR LOCKER BUILDING DRAWINGS		KS	To be developed during CD Phase	
90	Architectural	A1-1-MB	7/A1-1-MB: CONSIDER LOCATING INSULATION ON EXTERIOR SIDE OF FOUNDATION WALL TO REDUCE THERMAL BRIDGING THROUGH FOUNDATION (TYP)		KS	Comment under consideration.	
91	Architectural	A1-1-MB	8/A1-1-MB: CONSIDER LOCATING INSULATION ON EXTERIOR SIDE OF FOUNDATION WALL TO REDUCE THERMAL BRIDGING THROUGH FOUNDATION (TYP)		KS	Comment under consideration.	
92	Architectural	A1-1-MB	7/A1-1-MB: GROUT APPEARS TO STOP BELOW SLOPED FLASHING. CONSIDER FILLING CAVITY SOLID UP TO SLOPED FLASHING. MOISTURE/CONDENSATION IS TRAPPED AND CANNOT WEEP OUT OF AIR SPACE BELOW FLASHING.		KS	Comment noted, will comply	
93	Architectural	A1-1-MB	8/A1-1-MB: IS INTENT FOR WALL ASSEMBLY IN THIS AREA TO COMPLY WITH INSULATION REQUIREMENTS FOR METAL BUILDINGS? RECOMMEND PROVIDING TYPICAL EXTERIOR WALL AND ROOF ASSEMBLIES INDICATING INDIVIDUAL COMPONENTS AND REQUIRED R-VALUES		KS	The Storage Building by square footage falls under the 40,000 square foot threshold set by the Massachusetts Stretch Code for commercial building. A COMcheck analysis of the building will be performed during CD's to confirm R-Values for the building.	
94	Architectural	A1-1-MB	8/A1-1-MB: THE BOD LISTS 2" INSULATION AT FLOORSLABS (TYP). 1" MAY GET MORE EASILY DAMAGED DURING CONSTRUCTION		KS	Comment under consideration.	
95	Architectural	A1-1-MB	7/A1-1-MB: THE BOD LISTS 2" INSULATION AT FLOORSLABS (TYP). 1" MAY GET MORE EASILY DAMAGED DURING CONSTRUCTION		KS	Comment under consideration.	
96	Architectural	A1-2-1A	A1-2-1A: SHOW CRICKETS AT CURB MOUNTED EQUIPMENT ON ROOF TO PROMOTE POSITIVE DRAINAGE AROUND EQUIPMENT (TYP)		KS	Comment noted, will comply	

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97	Architectural	A1-2-1A	A1-2-1A: WILL WALKWAY PADS BE PROVIDED ON ROOF TO ACCESS EQUIPMENT (TYP)		KS	Yes, will add to roof plans	
98	Architectural	A1-2-1A	A1-2-1A: RECOMMEND PROVIDING SECTIONS OF TYPICAL ROOF ASSEMBLIES WHICH DOCUMENT INDIVIDUAL COMPONENTS AND MINIMUM REQUIRED R-VALUES		KS	To be developed during CD Phase	
99	Architectural	A1-2-1A	(A1-2-1A) HOW ARE LOW ROOF AREAS DRAINED? SLOPE APPEARS TO BE INDICATED BUT NO DRAINS SHOWN.		KS	Considering the use of scupper drains at low roofs, all drain locations will include notation (R.D.) at next submission.	
100	Architectural	A1-2-1B	(A1-2-1B) HOW ARE LOW ROOF AREAS DRAINED? SLOPE APPEARS TO BE INDICATED BUT NO DRAINS SHOWN.		KS	Considering the use of scupper drains at low roofs, all drain locations will include notation (R.D.) at next submission.	
101	Architectural	A2-1-5	(A2-1-5) CONSIDER COORDINATING DOOR HEIGHTS AND FRAME DEPTHS WITH MASONRY COURSING (TYP)		KS	Window/Door heights will be coordinated with masonry coursing.	
102	Architectural	A2-1-5	(A2-1-5) CONSIDER COORDINATING WINDOW HEIGHTS WITH MASONRY COURSING (TYP)		KS	Window/Door heights will be coordinated with masonry coursing.	
103	Architectural	A2-1-6	(A2-1-6) CONSIDER COORDINATING DOOR HEIGHTS AND FRAME DEPTHS WITH MASONRY COURSING (TYP)		KS	Window/Door heights will be coordinated with masonry coursing.	
104	Architectural	A2-2-2	A1-1-CB2 ADD EXTERIOR SECTION CALLOUTS (TYP)		KS	To be developed during CD Phase	
105	Architectural	A3-2-1	(1/A3-2-1) DOES FLASHING TERMINATION NEED TO BE THIS HIGH ABOVE DRIP EDGE?		KS	If this question is regarding roof/wall flashing at the 3rd floor roof, yes, the bottom of the 2-piece flashing should be 8" above roof surface.	
106	Architectural	A3-2-1	(1/A3-2-1) CONSIDER ROOFING UNDERLAYMENT BOARD OVER MTL DECK AS SUBSTRATE FOR FULLY ADHERED ROOF VB.		KS	Comment noted, will consider.	
107	Architectural	A3-2-1	(1/A3-2-1) HOW ARE LOW ROOF AREAS DRAINED? TYP.		KS	Scuppers in some locations, all drains will be noted in next submission.	
108	Architectural	A3-2-1	(2/A3-2-1) COORDINATE DOUBLE BENT PLATE LOCATION TO ALLOW FOR CONTINUOUS INSULATION AT ROOF/WALL TRANSITION, TYP.		KS	Comment noted, final detailing to be developed during CD Phase.	
109	Architectural	A3-2-1	(3/A3-2-1) PROVIDE SOFFIT DETAILS		KS	To be developed during CD Phase	
110	Architectural	A3-2-1	(A3-2-1, TYP.) PROVIDE STOREFRONT DETAILS		KS	To be developed during CD Phase	
111	Architectural	A3-2-1	(A3-2-1) PROVIDE SLAB EDGE DETAILS		KS	To be developed during CD Phase	
112	Architectural	A3-2-1	(A3-2-1) PROVIDE SILL DETAILS AT GRANITE BASE		KS	To be developed during CD Phase	
113	Architectural	A3-2-1	(A3-2-1) PROVIDE OH DOOR DETAILS		KS	To be developed during CD Phase	
114	Architectural	A3-2-1	(A3-2-1) ADD EXTERIOR SECTION CALLOUTS (TYP)		KS	To be developed during CD Phase	
115	Architectural	A3-2-2	(A3-2-2) PROVIDE CW SILL DETAILS		KS	To be developed during CD Phase	

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116	Architectural	A3-2-2	(A3-2-2) PROVIDE CW HEAD DETAILS		KS	To be developed during CD Phase	
117	Architectural	A3-2-2	(A3-2-2) PROVIDE SOFFIT DETAILS		KS	To be developed during CD Phase	
118	Architectural	A3-2-3	(A3-2-3) PROVIDE ACM SOFFIT DETAILS		KS	To be developed during CD Phase	
119	Architectural	A3-2-4	(2/A3-2-4) HOW ARE LOW ROOF AREAS DRAINED?		KS	Scuppers in some locations, all drains will be noted in next submission.	
120	Architectural	A3-2-4	1/A3-2-4 CLARIFY VERTICAL TERMINATION OF ROOF MEMBRANE AT FLAT LOCK PANELS		KS	To be developed during CD Phase	
121	Architectural	A3-2-4	(2/A3-2-4) PLEASE PROVIDE ROOF ASSEMBLY DESCRIPTION FOR ROOFTOP PAVERS		KS	Additional details for adjustable pavers to be developed during CD Phase, see specifications for description/mfgs.	
122	Architectural	A3-2-4	(2/A3-2-4) HAS THE EFFECTIVE R-VALUE OF CLOSED CELL SPF BETWEEN 6" CFMF BEEN CALCULATED?		KS	Yes, Additional wall assembly detailing to be developed during CD Phase.	
123	Architectural	A3-2-4	(A3-2-4) PROVIDE PARAPET DETAILS		KS	To be developed during CD Phase	
124	Architectural	A3-2-4	(A3-2-4) VERIFY CW VERTICAL SPANS WITH CW MANUF. TO DETERMINE IF MIDSPAN ATTACHMENT IS REQUIRED.		KS	This has been verified, vertical span shown is within limits of system depth without additional support.	
125	Architectural	A3-2-4	(WALL ASSEMBLIES, TYP) THE BOD INDICATES THAT ALL EXTERIOR WALL TYPES ARE TO HAVE AN EFFECTIVE U-VALUE OF U-0.050. SOME OF THE WALL TYPE DESCRIPTIONS DO NOT APPEAR TO MEET THE PRESCRIBED U-VALUE. PLEASE PROVIDE TYPICAL EXTERIOR WALL ASSEMBLIES INDICATING EACH INDIVIDUAL COMPONENT AND IT'S EFFECTIVE R-VALUE.		KS	Additional wall assembly detailing to be developed during CD Phase, will include R/U values.	
126	Architectural	A3-2-5	(A3-2-5) PROVIDE INSULATED METAL PANEL DETAILS		KS	To be developed during CD Phase	
127	Architectural	A3-2-5	(A3-2-5) PROVIDE CANOPY DETAILS		KS	To be developed during CD Phase	
128	Architectural	A3-2-6	(A3-2-6) PROVIDE INSULATED SHADOW BOX DETAILS		KS	To be developed during CD Phase	
129	Architectural	A3-2-6	(A3-2-6) PROVIDE MORE DETAILS ON CW BAY WINDOWS		KS	To be developed during CD Phase	
130	Architectural	A3-2-6	(A3-2-6) PROVIDE ATTACHMENT DETAILS FOR THIS LINEAR METAL SOFFIT		KS	To be developed during CD Phase	
131	Architectural	A3-2-6	(A3-2-6) PROVIDE ATTACHMENT DETAILS FOR THIS LINEAR METAL SOFFIT		KS	To be developed during CD Phase	
132	Architectural	A3-2-6	2/A3-2-6 PROVIDE FOUNDATION WALL DETAILS (TYP)		KS	To be developed during CD Phase	
133	Architectural	A3-2-6	2/A3-2-6 CONSIDER LOCATING INSULATION ON EXTERIOR SIDE OF INSULATION TO REDUCE THERMAL BRIDGE THROUGH FOUNDATION WALL (TYP)		KS	Comment under consideration.	
134	Architectural	A3-2-7	(A3-2-7) COORDINATE LOCATIONS WHERE INSULATION PLANE CHANGES WITHIN CALL CAVITY TO MAINTAIN CONTINUOUS INSULATION LAYER. PROVIDE DETAILS.		KS	Line of inside face of insulation shall be maintained wherever possible, at this location we are transitioning from rainscreen to insulated metal panel.	
135	Architectural	A3-2-7	(A3-2-7) PROVIDE SF DETAILS		KS	To be developed during CD Phase	

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136	Architectural	A3-2-7	(A3-2-7) PROVIDE FENCEPOST DETAILS		KS	To be developed during CD Phase	
137	Architectural	A3-2-8	(A3-2-8) PROVIDE EXTERIOR MATERIAL TRANSITION DETAILS		KS	To be developed during CD Phase	
138	Architectural	A3-2-8	(A3-2-8) PROVIDE EJ DETAILS		KS	To be developed during CD Phase	
139	Architectural	A3-2-8	(A3-2-8) PROVIDE EJ DETAILS		KS	To be developed during CD Phase	
140	Architectural	A3-2-10	1/A3-2-10 DETAIL INSULATION AND WATERPROOFING AT FOUNDATION WALL ADJACENT OCCUPIED SPACES		KS	Details to be developed during CD Phase	
141	Architectural	A3-2-10	2/A3-2-10 DETAIL INSULATION AND WATERPROOFING AT FOUNDATION WALL ADJACENT OCCUPIED SPACES		KS	Details to be developed during CD Phase	
142	Architectural	A3-2-10	2/A3-2-10 DETAIL WATERPROOFING BETWEEN SIDEWALK CONCRETE SLAB AND FOUNDATION CONCRETE WALL		KS	Details to be developed during CD Phase	
143	Architectural	A3-2-11	1/A3-2-11 DETAIL INSULATION AND WATERPROOFING AT FOUNDATION WALL ADJACENT OCCUPIED SPACES		KS	Details to be developed during CD Phase	
144	Architectural	A3-2-12	(A3-2-12) PROVIDE MAIN ENTRY CANOPY DETAILS		KS	Details to be developed during CD Phase	
145	Architectural	A3-2-12	A3-2-12 THERMAL BRIDGE ABOVE ENTRANCE CURTAINWALL IF SOFFIT OF CANOPY IS NOT INSULATED		KS	Insulated vertical wall to be added above exterior vestibule curtain wall.	
146	Architectural	A3-2-12	A3-2-12 PROVIDE FOUNDATION DETAILS (TYP)		KS	Details to be developed during CD Phase	
147	Architectural	A3-2-13	7/A1-1-MB: THE BOD LISTS 2" INSULATION AT FLOORS LABS (TYP)		KS	The Satellite Locker Building will be updated/detailed similar to the BOD during the CD Phase	
148	Architectural	A3-2-13	1/A3-2-13 ADD EXTERIOR FOUNDATION SECTION CALLOUTS (TYP FOR BUILDING)		KS	Details to be developed during CD Phase	
149	Architectural	A3-2-13	1/A3-2-13 DETAIL INSULATION AND WATERPROOFING AT FOUNDATION WALL ADJACENT OCCUPIED SPACES		KS	Details to be developed during CD Phase	
150	Architectural	A3-2-13	1/A3-2-13 ADD ROOF EDGE SECTION CALLOUTS (TYP FOR BUILDING)		KS	To be developed during CD Phase	
151	Architectural	A3-2-13	1/A3-2-13 FILL DECK WITH INSULATION AT "THERMAL PLANE OF WALL"		KS	Flutes to be filled with spray foam @ wall insulation intersection	
152	Architectural	A3-2-13	1/A3-2-13 RECOMMEND PROVIDING SECTIONS OF TYPICAL WALL ASSEMBLIES WHICH DOCUMENT INDIVIDUAL COMPONENTS AND MINIMUM REQUIRED R-VALUES (TYP)		KS	To be developed during CD Phase	
153	Architectural	A3-2-13	3/A3-2-13 ADD EXTERIOR SECTION CALLOUTS (TYP FOR BUILDING)		KS	To be developed during CD Phase	
154	Architectural	A3-2-13	2/A3-2-13: HOW IS CAVITY FILLED BELOW GRADE?		KS	Grouted solid during veneer installation, see section 3 this sheet.	
155	Architectural	A3-2-13	2/A3-2-13: CONSIDER LOCATING INSULATION ON EXTERIOR SIDE OF FOUNDATION WALL TO REDUCE THERMAL BRIDGING THROUGH FOUNDATION (TYP)		KS	Comment under consideration.	

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156	Architectural	A3-2-13	2/A3-2-13: CONSIDER LOCATING FLASHING MIN 8" ABOVE FINISH GRADE (TYP)		KS	Grade will be adjusted down for this section, typical condition is grade is set 6" below floor line.	
157	Architectural	A3-2-14	(A3-2-14) PROVIDE TRANSLUCENT PANEL SYSTEM DETAILS		KS	Details to be developed during CD Phase	
158	Architectural	A5-3-1	S/A5-3-1: CONSIDER MOUNTING CURB ON TOP OF WOOD BLOCKING AT TOP OF ROOF ASSEMBLY TO LIMIT THERMAL BRIDGING OF METAL CURB THROUGH ROOF ASSEMBLY SIMILAR TO DETAIL M AND N		KS	Comment under consideration.	
159	Architectural	A5-3-1	1/A5-3-1: CONSIDER MOUNTING CURB ON TOP OF WOOD BLOCKING AT TOP OF ROOF ASSEMBLY TO LIMIT THERMAL BRIDGING OF METAL CURB THROUGH ROOF ASSEMBLY SIMILR TO DETAIL M AND N		KS	Comment under consideration.	
160	Architectural	A5-3-1	R/A5-3-1: CONSIDER TRANSITIONING ROOF SYSTEMS WITH SLOPED INSULATION INSTEAD OF BLOCKING TO REMOVE TIGHT 90 DEGREE BENDS IN ROOF MEMBRANE FLASHING		KS	Comment under consideration. Details shall comply with the Roofing Manufacturer's standards	
161	Architectural	A5-3-1	G/A5-3-1: CONSIDER FILLING TUBE WITH LOW EXPANSION FOAM INSULATION SIMILAR TO DETAIL H		KS	Comment under consideration.	
162	Architectural	A5-3-1	G/A5-3-1: CONSIDER APPLYING THERMAL INSULATING COATING SUCH AS TNE MEC AREOLON AT TUBE		KS	Comment under consideration. Not recommended per discussion with the CM (Gilbane)	
163	Architectural	A5-3-1	E/A5-3-1: CONSIDER FILLING TUBE WITH LOW EXPANSION FOAM INSULATION SIMILAR TO DETAIL H		KS	Comment under consideration.	