SBA Project Submission Form DESIGN DEVELOPMENT PHASE SBA FORM 176c

The Design Development Documents shall illustrate and describe the development of the approved Schematic Design Documents and it shall consist of documents including plans, sections, elevations, typical construction details, and diagrammatic layouts of building systems to fix and describe the size and character of the project as to the architectural, structural, mechanical and electrical systems, and such other information as may be appropriate. The Design Development Documents shall also include outline specifications that identify major materials and systems and establish in general their quality levels.

SBA	County/Architect							
		Please check this box if all previous review comments have been addressed.						
		Revised Educational Specification if changes are required from the Schematic Phase submission.						
		Written assurance from the design professional that the building square footage depicted on the drawings is consistent with that shown in the program of spaces. If there is a discrepancy between these documents, an explanation of the discrepancy shall be provided.						
		A narrative of the school's proposed technology plan that describes how the technology is to be integrated into the daily lesson plan by the instructors. How the technology will be utilized and where major technology components will be located. Please refer to the SBA Quality and Performance Standards Section for further assistance.						
		Provide verification that the available utility services are adequate to support the proposed building requirements.						
		Outline specification that identifies the major materials and systems and establishes in general their quality levels. This document should include but is not limited to a detailed overview of all major building components and systems per division of work specific to the project. Please refer to the current SBA Quality and Performance Standards in order to establish minimum requirements. Include request for deviations from the SBA Standards with the submission information.						
		Provide the project construction analyst or construction manager, an electronic copy of the Design Development document. 1 OF 6 (Design Phase)						

SBA	Count	//Architect			
		The designers shall submit a written narrative confirming the design intent from the schematic phase, which will provide the logic and background for the mechanical system chosen. The design intent shall take into consideration the county maintenance personnel's ability to operate and maintain specific HVAC systems including the building automation system (BAS). If this system has changed from the list of systems described in the schematic design phase, please provide reasoning for this change.			
		Provide life cycle cost analysis (if required by of the SBA Quality and Performance Manual)			
		Final List of Green School components (where applicable). A separate LEED for Schools Matrix may be attached.			
	Design llowin	Development drawings shall include but are not limited to g:			
		Cover Sheet: ☐ ☐ List of all drawings included with the submission ☐ ☐ List of abbreviations and project specific typical notes ☐ ☐ Map of general project location with north arrow ☐ ☐ Breakdown of building square footage by floor			
		Site Design drawings shall include: Key Plan Property lines Buildings (existing and proposed) Parking and paving including exterior steps and handicapped ramps, indicate locations of asphalt and concrete pavements, including curbs and sidewalks Fencing Storm Water Management Spot Grades at all entrances and new building corners Grades at drives and parking Locations of power, water, communications, sewer and/or other necessary utilities			

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Ш	Struct	ural Di	rawings with key plan shall include:
			Key plan
			Overall dimensions around the building
			Diagrammatic layout of floor and roof framing plans showing major structural components including sizes/weights
			Descriptions of all floor deck and concrete systems
			Proposed locations of retaining walls or non-standard foundation or framing systems (if any)
			Location of columns and bearing walls with dimensions needed to locate them
			Bearing height of structural elements
			Finish floor elevations
			Designers shall include a narrative describing structural systems for all footings, foundations, floors and roof areas including proposed bottom of footing elevations.
	Archit	tectural	Drawings shall include:
			Key plan
			Show all columns, exterior walls, interior partitions doors, door swing, windows, stairs, handrail, guard rails, elevators, interior frames and openings, casework counter tops and built in items in plan.
			Seating capacities of gymnasiums and auditoriums.
			Room names and numbers.
			Door numbers
			Overall building dimensions around the building
			Column line dimensions tied to exterior wall dimensions.
			A minimum of two continuous string of dimensions (longitudinally and laterally) through the building that equals the overall dimensions shown including the exterior wall thickness.
			Dimensions at stairs and ramps
			Building section marks
			Building elevation marks
			Location of roof drains, gutters and downspouts.

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SBA	Count	y/Arch	itect		
				Parapets, ridge lines, valleys, and hips with arrows to indicate the direction of slope.	
				Roof plan (showing preliminary roof/overflow drain locations)	
				Roof access, hatches, doors etc.	
				Include a preliminary finish schedule of all floor, wall and ceiling finishes.	
		Building Elevation Drawings:			
				Show outline of building walls and roofs	
				Finish grade line	
				Windows and doors	
				Vertical dimensions with finish floor & roof bearing heights.	
				Roof pitch	
				Note materials and indicate extents.	
				Show building section marks.	
		Buildi	ing and	Wall Section Drawings:	
				Show the outline of building items that the section plane cuts through, including roofs, exterior walls, foundations, footings, floors, beams, joist, windows and door openings ceilings, bulkheads, insulation and finish grade lines.	
				Vertical dimensions with finish floor heights and roof bearing heights.	
				Note direction and percentage and/or pitch of roof slopes.	
				Note all materials	
		Reflec	ted Cei	ling Plan:	
				Key plan	
				Show grid, bulkheads, changes in elevations, materials, and ceiling mounted signage, HVAC equipment and lighting locations.	

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	Plumbing Drawings:		
			Key plan with legend
			Provide preliminary plumbing fixture schedule and equipment schedules for all plumbing equipment (Makes and model, if available)
			Show Plumbing fixture and equipment locations
			Locate main water line, include sizing
			Locate main sewer and vent lines, include sizing
			Locate roof drain lines, include sizing
			Identify where water, sewer and storm enter and exit the facility.
	Fire P	rotectio	on Drawings (when applicable):
			Key Plan with legend
			Locate main water line, include sizing. Locate main equipment and risers.
	HVAC Drawings (Provide life cycle cost analysis, where applicable):		ings (Provide life cycle cost analysis, where applicable):
			Key plan with legend
			Provide preliminary equipment schedules with sizes and quantities from design basis shown. (Manufacturer make and model, if known)
			Locate all major HVAC equipment
			Single line diagram of ducts and pipes sufficient to show zone locations, including preliminary sizing for all ductwork mains and piping system main lines on plan view.
			Location of roof top equipment, fans, HVAC, etc. Ensure all roof top equipment locations allow for proper clearances in relation to parapet walls, exhaust vents & intake louvers.
	Electri	ical Dra	awings:
			Key plan
			Power plan with legend showing locations of main and distribution panel boards and outlets, as well as service entrance and transformer locations.
			Emergency power system (generators, ATS and misc.
			systems) 5 OF 6 (Design Phase)

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				Lighting plan with legend showing the location of lighting, include fixture type, controls, dimming systems, exit lighting and emergency egress lighting. Preliminary fixture schedule showing all fixture types from the design basis. (Manufacturer make and model, if known)		
				Communications plan with legend showing location of fire alarm pull stations, hardwired computer outlets, phone outlets, CCTV locations and TV monitors. (where applicable)		
			pical cl	ng and communication layouts in classroom areas can be shown lassroom layout. All other remaining areas should be shown as		
				Site Utility service connections and details		
				Technology documents showing cable tray, outlet locations, main technology closets and outlet details.		
				Technology documents showing video, clock, sound, paging, security, cctv and wireless outlets and outlet details. (where applicable)		
		Const	ruction	Cost Estimate by Division of Work:		
				Architect's cost estimate. Include all proposed offsite utility extension access roads, soft costs and contingency.		
				If a deficit exists in the detailed cost estimate, a letter from the grant recipient committing additional local funding needed to solidify the deficit, if the additional funds were not previously committed at the Schematic Design Phase.		
			□↑	AIA Forms – Provide original AIA forms with the project name and architect filled in. The use of paper or electronic forms may be used, but if the project is to be distributed electronically, an electronic version must be provided and architect/engineer must obtain the special license from AIA to distribute them electronically.		
NOTE	Ξ:			uilding Authority reserves the right to request an electronic copy of evelopment drawings.		
Submi	itted By			Date		
SBA A	Approva	ıl By		 Date		
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