



INDICATIVE SITE PLAN



RED HOOK HOUSES BROOKLYN, NEW YORK *PROJECT IS AT THE CONCEPTUAL STAGE

ARUP OLIN

AERIAL RENDERING FROM EAST



							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RED HOOK EAST	\$ 197,483,000		16	1,408	2,969	19.65	7	51	25	38
Est. Construction Start*	Q3-16	# of Damaged Bldgs. funded by FEMA**	14	1,288	2,699					
FEMA 428 Scope										
	 Restoration of play group 	nd surface areas and play st	ructures damaged	by Sandy						
	• Site Restoration (sidewalks, fencing and ground fill to positive drain, etc.) of Sandy damaged areas as well as any areas that may be affected by construction									
	Abate & restore building crawl spaces at damaged buildings									
	New electrical annexes to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	Full roof replacement at damaged buildings									
	• Repair and restore architectural features (walls, floors) of common areas damaged by flooding. Replace doors, frame & hardware damaged by flooding									
	Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	New building to house boiler equipment above the DFE									
	Remove underground fuel oil storage tank(s) as required.									
	Replacement of underground conduits & site lighting (in Sandy flooded areas)									
	CCTV and Layered Access Systems at damaged buildings									
	 Installation of stand-by generators to provide full back-up power for damaged buildings 									
	Installation of stairwell lighting in damaged buildings									
	 Dry flood proofing above DFE to protect damaged building envelope in flood prone areas 									
	 Restoration of Senior Ce 	enter								
	 Contents damaged as a 	result of Sandy (i.e. equipme	ent and supplies)							

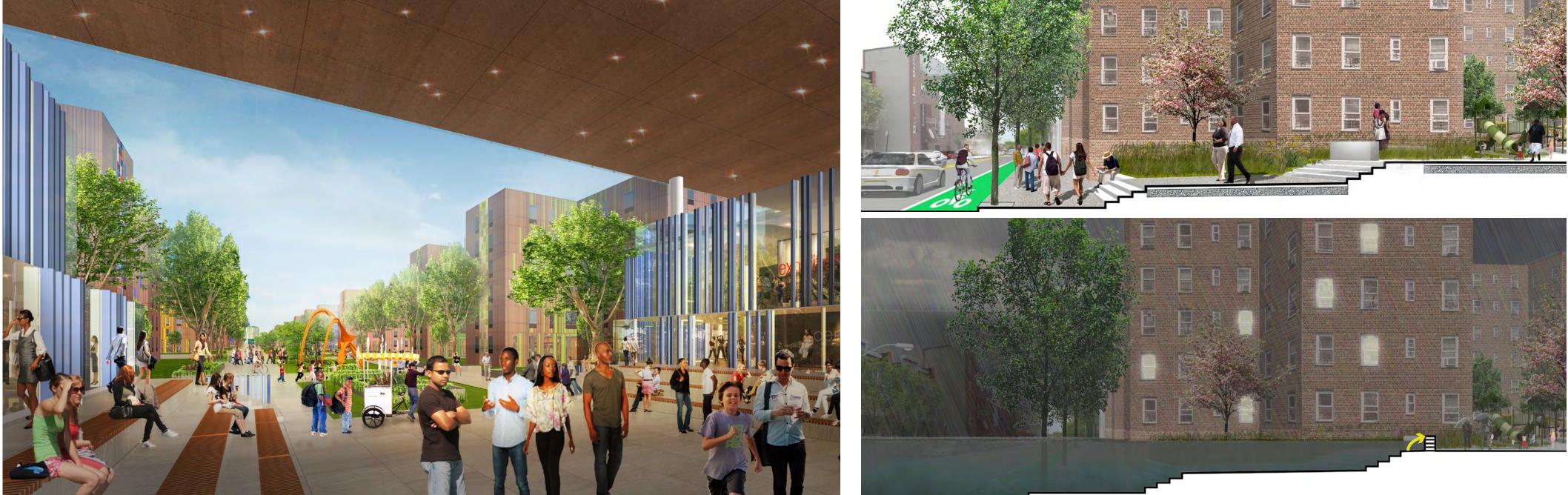
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



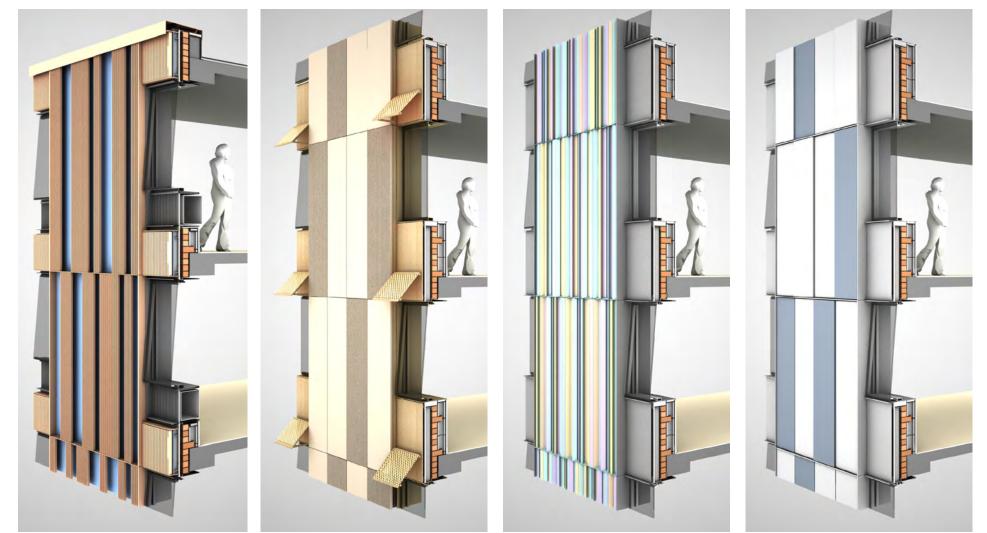
SUSTAINABLE BUILDING FACADE AND ELEVATORS



INDICATIVE PROGRAMMING ON THE CENTRE MALL



RED HOOK HOUSES BROOKLYN, NEW YORK *PROJECT IS AT THE CONCEPTUAL STAGE



OVERCLAD ALTERNATIVES (LEFT TO RIGHT): TERRACOTTA, FIBER CEMENT BOARD, EXTRUDED ALUMINUM, METAL PANEL



"LILY PAD" FLOOD PROTECTION TERRACING



							Districts				
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council	
RED HOOK WEST	\$ 240,730,000	Total #	14	1,470	3,248	19.32	7	51	25	38	
Est. Construction Start*	02.16	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings								
FEMA 428 Scope											
	 Restoration of play ground surface areas and play structures damaged by Sandy 										
	• Site Restoration (sidewalks, fencing and ground fill to positive drain, etc.) of Sandy damaged areas as well as any areas that may be affected by construction										
	Site Restoration - (Asphalt resurfacing) of Sandy damaged areas as well as any areas that may be affected by construction										
	Abate & restore building crawl spaces										
	New electrical annexes to be located above the Design Flood Elevation (DFE) to house new C/T cabinets										
	Full roof replacement										
	Repair and restore architectural features (walls, floors) of common areas damaged by flooding. Replace doors, frame & hardware damaged by flooding										
	Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems										
	New building to house boiler equipment above the DFE										
	 Remove underground fuel oil storage tank(s) as required. 										
	Replacement of underground conduits & site lighting (in Sandy flooded areas)										
	CCTV and Layered Access Systems										
	Installation of stand-by generators to provide full back-up power										
	Installation of stairwell lighting										
	Dry flood proofing above DFE to protect building envelope in flood prone areas										
	Contents damaged as a result of Sandy (i.e. equipment and supplies)										

DFE - Design Flood Elevation

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