DIVISION 2

SITE PROTECTION

NO	ITEM	UNITS
1	**SIDEWALK SHED – X' WIDE, MIN 8' HIGH WITH WIRE MESH BARRIER** (use for 6' through 10' wide, 8' high SWS) Provide **X**' wide x Min. 8' high sidewalk shed. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: erection, lights, full height wire mesh, barrier debris netting, 3 months rental, maintenance and cleaning and pest control of fenced-off areas.	LF
2	**SIDEWALK SHED-12'-14' WIDE, MIN 16' HIGH WITH WIREMESH BARRIER** Provide 12'-14' wide x Min. 16' high sidewalk shed. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: erection, lights, full height wire mesh, barrier debris netting, 3 months rental, maintenance and cleaning and pest control of fenced-off areas. The Contractor shall coordinate with the Development and NYCHA Representative for final placement.	LF
3	**CCTV CAMERA PROTECTION AND REMOVAL AFTER COMPLETION OF CONTRACT** This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Construct 2'-6 x 2'-0" steel frame by welding together 2" x 2" x3/8" steel angles. Weld 2" x 3/16" bar bracing at each end of the frame. Weld 22 GA. x 1 ½" ribbed metal deck over the steel frame. 2. Hot dip galvanize the whole frame assembly. 3. Provide this assembly over the existing CCTV camera with adhesive anchors as per the Detail x/G-00X. 4. Remove assembly after completion of the contract work. 5. Restore anchor holes in masonry joints to the original condition.	EA

4	**PROVIDE 8' HIGH TEMPORARY CHAINLINK FENCE AND REMOVE AFTER COMPLETION OF CONTRACT WORK** This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Provide 8 ft. high temporary chain link fence, with debris netting, at the ground level, to protect the public, as directed by the Authority. 2. Provide gates as required and as directed by Authority's Representative. 3. At the completion of the contract work the temporary chain link fence shall be removed and the damaged areas (grass, concrete, pavement, etc.) are repaired and patched to the original condition.	LF
5	**ADDITIONAL MONTHLY RENTAL & MAINTENANCE OF SIDEWALK SHED INCLUDING CLEANING OF ALL SHED TYPES.** Provide additional monthly rental, maintenance and cleaning of all shed types.	LF/MO
6	**DISMANTLING & REMOVAL OF ALL SIDEWALK SHED.** Dismantle and remove all types of sidewalk shed from the work site.	LF

DIVISION 3

CONCRETE

NO	ITEM	UNITS
3A	**Concrete Slab Crack on roof slab (crack greater than ¾")** This item consists of the repair of cracked concrete on the concrete roof slab. Repairs shall be carried out per the construction details on the contract drawings and as per contract specifications, but not limited to the following: 1. Saw cut edge ½" depth and enlarge cavity without exposing/ damaging rebar. 2. Remove all loose material, down to sound substrate. 3. Remove all foreign materials and clean area with water. 4. Apply modified repair mortar in the routed area. 5. Inject epoxy adhesive/ grout once the mortar has cured	LF

	6. Touch up and complete surface with modified repair mortar 7. Apply curing agent and finish coating as per manufacturer's recommendations. Color to match existing. Tool and finish to match existing profile. Removal and installation of roofing is not included in this line item. Scaffolding to reach areas of work is included in this line item	
	Concrete Crack repair on Slab (For crack width 1/8"<to<3/4") This item consists of the repair of cracked concrete, width more than 1/8" on the surface of roof slab. Crack less than 1/8" in width is included in roofing cost. Repairs shall be carried out per the construction details on the contract drawings and as per contract specifications, but not limited to the following: 1. Saw an undercut groove along the existing crack, do not cut existing rebar. Clean all the loose materials. 2. Fill in any crack with epoxy compound and epoxy crack filler as per manufacturer's recommendation to flush with the adjacent slab surface 3. Install concrete repair materials as per manufacturer's recommendations. 4. Apply acrylic modified cementitious coating over repair area as per manufacturer's recommendations. Removal and installation of roofing is not included in this line item. Scaffolding to reach areas of work is included in this line item	LF
	Concrete Crack repair (For crack width <1/8") This item consists of repairing cracked concrete surfaces. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Clean surface at crack 2. Rout out crack min. 3/8"x3/8" 3. Pressure wash clean and remove debris from routed crack 4. Inject Epoxy crack filler in accordance with manufacturer's specifications. 5. Fill up the groove with epoxy compound to flush with the adjacent slab surfaces as per manufacturer's recommendation	LF

	6. Apply two coats of acrylic modified cementitious coating over concrete surfaces, as per manufacturer's recommendation. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification section 03 01 00. Refer to drawings for locations.	
	Concrete Slab - Repair Spall in top of concrete slab (with/without exposed rebar) This item consists of the repair of spalled concrete on the surface of a roof slab, slab Repairs shall be carried out per the construction details on the contract drawings and as per contract specifications, but not limited to the following: 1. Sound surfaces at locations approximately 2"-3" O.C., in all directions, to identify extent of deteriorated/delaminated concrete. 2. Remove deteriorated concrete until non-deteriorated (solid) substrate is reached. 3. Mark out a rectilinear repair perimeter margin. 4. Saw-cut repair perimeter, min depth 3/4" 5. Remove concrete to achieve a 3/4" clearance beyond reinforcing bars. For quantification purposes, assume an average depth of 3". 6. Prepare and coat reinforcing bars, comply with manufacturer's recommendations. If corrosion reduced any reinforcing bar diameter by more than 20%, splice per reinforcing bar splice sub detail. 7. Provide stainless steel pins or threaded rods, drilled and epoxy grouted into existing concrete slab if required 8. Install concrete patch repair material in lifts or form and pour, based on depth of repair. 9. Apply curing agent and finish coating as per manufacturer's recommendations. Color to match existing. Tool and finish to match existing profile. Removal of ACM materials are not included in this line item. Scaffolding to reach areas of work is included in this line item.	SF
	Concrete Spall Repair: Vertical / Overhead (with/without exposed rebar)	SF

	This item consists of removing and replacing cracked, spalled or otherwise deteriorated concrete. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Sound surfaces at locations approximately 2"-3" O.C., in all directions, to identify extent of deteriorated/delaminated concrete. 2. Remove deteriorated concrete until non-deteriorated (solid) substrate is reached. 3. Mark out a rectilinear repair perimeter margin. 4. Saw-cut repair perimeter, min depth 3/4" 5. Remove concrete to achieve a 3/4" clearance beyond reinforcing bars. For quantification purposes, assume an average depth of 3". 6. Prepare and coat reinforcing bars, comply with manufacturer's recommendations. If corrosion reduced any reinforcing bar diameter by more than 20%, splice per reinforcing bar splice sub detail. 7. Provide stainless steel pins or threaded rods, drilled and epoxy grouted into existing concrete slab if required 8. Apply bonding agent, repair mortar, and curing agent, per manufacturer's recommendations for preparation and application. 9. Apply repair mortar in lifts, maximum thickness of each lift per manufacturer's recommendations. Score surface of each lift to receive the next lift. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations.	
	Concrete Slab Repair: Full Slab Thickness This item consists of repairing severely deteriorated concrete slab which may appear after the roofing removal at locations as identified and directed by NYCHA's Representative. In case of severely corroded rebars it needs to be assisted and in case of thru slab repair re-bars shall be assisted and the form work under the slab shall be provided. The Contractor shall submit the shoring shop drawing for approval. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Sound surface area with 3 Lb. blow hammer to identify extent of loosened/deteriorated concrete. 2. Remove loosened and deteriorated concrete by hammer and hand-held pointed tools until 4" into sound substrate.	SF

	3. If removal of deteriorated concrete creates thru hole in the slab, install shoring as required. The screw jack shall be 1'-6" from the edge of repair area and 3'-0" O.C. 4. Coordinate access to space below slab with the Authority in advance and comply with all Authorities' restrictions for working in occupied apartments. 5. Prepare and coat reinforcing bars, comply with manufacturer's recommendations. If corrosion reduced any reinforcing bar diameter by more than 20%, add epoxy coated deformed reinforcing bars as per assisting bar schedule. 6. Cut out re-bars within 1/2" or less of clear cover and replace with new bars in kind with minimum clear cover of 3/4". Weld new bars to existing bars. 7. Paint all cleaned steel bars with protective coating immediately after cleaning. 8. Install forms at underside of the slab. 9. Remove loose material and apply bonding agent to exposed concrete. 10. Pour concrete through the opening from the top. Use vibrator to make sure no voids are left in the pour slab. 11. Apply curing agent, per manufacturer's recommendations for preparation and application. 12. Apply two coats of acrylic modified cementitious coating over concrete surfaces as per manufacturer's recommendation. 13. Paint ceiling of apartment, color and texture to match with existing. 14. Provide necessary props and bracing to support adjacent sections of slab during repair process. The cost of any hazardous material removal is paid under ACM abatement – Division 2. Scaffolding to reach areas of work is included in this line item. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations.	

DIVISION 4

MASONRY

NO	ITEM	UNITS
	Compactor Stack Height Reduction This item consists of reduction of the height of the compactor stack by removing two (2) wythe brick masonry along with concrete coping and spark arrestor and rebuilding the stack to a height of 6' from finished new main roof slab or up to the adjoining bulkhead roof slab level, depending on the location relative to bulkhead.	EA

	This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Provide temporary shoring. 2. Remove existing spark arrester and dispose as standard protocols. 3. Remove existing concrete coping. 4. Remove, salvage and reinstall after restoration any antenna, lightning protection equipment etc. from existing chimney if exists. 5. Remove existing masonry down to bulkhead structural slab, or 2'-6" or as required from the bulkhead roof level when adjoining bulkhead wall. 6. Provide new brick masonry with horizontal joint reinforcement at every 4th course and type N mortar on top the existing stack (to remain). New brick masonry to match existing in shape, size color and in bond pattern. 7. Provide #5 epoxy coated rebars at each corner on new stack. If the stack dimension exceeds 3 ft, install additional dowels at 18" O.C. Set the dowels in epoxy adhesive set with embedment of min 8" into masonry or 4" into concrete. 8. Provide Louvers as required. Provide wire mesh and install frame behind louver as spark arrestor. 9. Provide stainless steel eye bolts with stainless steel dowels set in epoxy adhesive in the corners. 10. Provide pre-formed sheet metal flashing and counter flashing. 11. Provide modified bitumen membrane flashing set in full bed of flashing cement. Seal all penetrations with utility mastic. 12. Provide pre-cast concrete or cast in place concrete cap on top of the masonry with spring-loaded stainless-steel dowels for final coping stone installation. 13. Provide sealant with backer rod at locations shown on detail and wherever necessary. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations. Scaffolding to reach areas of work is included in this line item.	
	Brick Masonry Replacement This item consists of removing and replacing cracked, bulged or otherwise deteriorated brick masonry. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Provide temporary shoring. 2. Remove existing brick as required to repair cracked, spalled or damaged brick, creating keyed pattern as illustrated in detail.	SF

	3. *Opening at sill* - Remove minimum three courses of masonry and protect existing flashing or provide new as shown in construction drawings. 4. *Opening at lintel* – Remove brick as required, prepare, clean and coat all exposed steel at underside and toe of lintel. 5. Inspect condition of back-up wall. Replace any loose/ missing mortar joints & patch holes, if any, with Type N mortar. 6. Parge backup wall with Type N mortar. 7. Keep cavity clear from all debris and mortar droppings. 8. Provide brick masonry with mortar Type N, complete with veneer anchor, pencil rod, horizontal truss reinforcement, sealant, and backer rod. 9. At expansion Joint – Terminate pencil rod at each side of expansion joint. Provide expansion joint stabilizing anchor installed 1 course below veneer anchors. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations. Scaffolding to reach areas of work is included in this line item.	
	Masonry Re-Pointing: ¾" Deep This item consists of removal and replacement of deteriorated mortar joints. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Remove existing deteriorated mortar joints min. 3/4" to sound substrate by grinder with HEPA vacuum attachment and portions of joint, not accessible with grinder, using a chipping hammer with HEPA vacuum attachment. 2. Clean out debris of raked out mortar joints with electric air blower. 3. Saturate masonry units and allow several hours drying time until surface dry. 4. Provide new mortar joint using 1/4" lifts and allow each lift to be thumbprint hard before applying additional lifts. 5. Provide brick masonry with mortar Type N. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations. Scaffolding to reach areas of work is included in this line item.	SF
	Main Roof Parapet Reconstruction (4' high from finished roof) This item consists of the removal and replacement of the main roof perimeter masonry parapet and all associated components down to lintel level. This work shall be carried	LF

	out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Provide OSHA complying temporary protection before removal of parapet. 2. Provide temporary waterproofing/ watertight protection all the time. 3. Remove existing parapet & lintel (Refer to drawings for extent). 4. Patch existing slab & spandrel beam as required. 5. Inspect condition of back-up wall. Replace any loose/ missing mortar joints & patch holes, if any, with Type N mortar. 6. Parge backup wall with Type N mortar. 7. Provide brick masonry with mortar Type N, complete with veneer anchor, pencil rod, horizontal truss reinforcement, sealant, and backer rod. 8. Keep cavity clear from all debris and mortar droppings. 9. Provide new precast stone lintel that sits above windows. 10. Provide composite flexible flashing. 11. Provide vertical reinforcement. 12. Reconstruct the masonry parapet wall with weeps, flashing, anchor, ties etc. 13. Provide flashing on top of the masonry parapet. 14. Provide Terra Cotta coping units to match existing. 15. Provide sealant joints per contract documents. 16. Provide expansion joints per contract documents. Terminate pencil rod at each side of expansion joint. Provide expansion joint stabilizing anchor installed one (1) course below veneer anchors. 17. Coordinate for the scope for work overlap. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations. Telecommunications Equipment Coordination – Contractor to coordinate with NYCHA for any area of their work impacted by existing telecommunications equipment. Refer to General Conditions and notes on drawing plans	
	Bulkhead Parapet Reconstruction This item consists of the removal and replacement of bulkhead roof perimeter parapet and all associated components down to lintel level. This work shall be carried out per construction detail shown on the contract drawings & as indicated on specifications, but not limited to the following: 1. Provide OSHA complying temporary protection before removal of parapet.	LF

	2. Provide temporary waterproofing/ watertight protection all the time. 3. Remove existing parapet & lintel (Refer to drawings for extent). 4. Patch existing slab & spandrel beam as required. 5. Inspect condition of back-up wall. Replace any loose/ missing mortar joints & patch holes, if any, with Type N mortar. 6. Parge backup wall with Type N mortar. 7. Provide brick masonry with mortar Type N, complete with veneer anchor, pencil rod, horizontal truss reinforcement, sealant, and backer rod. 8. Keep cavity clear from all debris and mortar droppings. 9. Provide new steel lintel that sits above windows. Galvanize and coat the steel lintel as per the specifications. 10. Provide composite flexible flashing. 11. Provide vertical reinforcement. 12. Reconstruct the masonry parapet wall with weeps, flashing, anchor, ties etc. 13. Provide flashing on top of the masonry parapet. 14. Provide Terra Cotta coping units to match existing. 15. Provide sealant joints per contract documents. 16. Coordinate for scope for work overlap. The cost of any hazardous material removal is paid under ACM abatement – Division 2. This work shall be performed as per specification sections specified in the detail. Refer to drawings for locations. Telecommunications Equipment Coordination – Contractor to coordinate with NYCHA for any area of their work impacted by existing telecommunications equipment. Refer to General Conditions and notes on drawing plans.	

DIVISION 5 TO BE CONTINUED

TOP MOUNTED

SIDE MOUNTED

STRUCTURAL STEEL

ETC