

## Elementary / Intermediate School - EXCEL

BCS No.	ITEM	RECOMMENDATION
<b>General / Site Work</b>		
1	Site Storm Drainage	Raise existing (depressed) catch basin grate at south parking area and repair adjacent asphalt paving
2	Sidewalks	Playground of NE of school downslope. Provide accessible asphalt walk to playground
3	Interior Walls	Provide second means of egress of OT/PT exits
4	Floor Finishes	Replace flooring in Health Office
5	Floor Finishes	Replace floor tile in Cafeteria
6	Interior Doors	Add smoke doors to Art Room
7	Interior Doors	Exiting-Assembly
8	Structural Floor(s)	*At the upper floor level corridor link (corridor C202), slab appears to have settled. Currently this may be considered a tripping hazard. Recommend repair which may include slab jacking
9	Exterior Walls/Columns	Remove and reanchor slate panels - Repair / caulk exg. slate panels - will be difficult to match
10	Sidewalks	Provide accessible concrete ramp and landing at North exit door (at playground)
11	Exterior Doors	Replace exterior doors and frames in B-Wing, C1-Wing, D1-Wing, D-Wing.
12	Re-key building / Replace all hardware	Item is for all door hardware - Most hardware is 50 years old
13	Door Replacement	Replace 5 interior solid wood doors (including hardware). Include glazing in door.
14	Health Office ADA improvements	At Health Office 36A, renovations for ADA at the office and toilet room. This was alternate work not taken in 6431.
15	New Concrete Floor at old Rifle range	Provide a new concrete floor over the existing dirt floor in the old rifle range area across the hall from Bill Blosser's office. The area is 47'-0" long by 13'-6" wide. Assumes 4" slab. Would require approx. 1 - 2 yards of dirt material to be removed. Asbestos? Lead?
16	New Concrete Floor at area across hall from Business	Provide new concrete floor slab at area across the hall from the Business office to provide additional building storage...6,800 sf x \$5.00/sf
17	Paving Improvements	Paving replacement at the E/I Bus Loop
18	Create Vestibules at Exits	Provide vestibules at certain building exits. This would help improve heat loss. Looked at adding 3 on the lower level and 5 on the upper level at \$20,000 each.
19	New Shades at Cafeteria	Provide new shades for both café 1, café 2 and faculty dining exterior windows and interior glazing.

**Elementary / Intermediate School - EXCEL (continued)**

**HVAC Work**

20	Heat Generating Systems	Three York Shippley fire tube, steam boilers, one (1) HB Smith cast iron sectional boiler. Fire tube boilers are original, and beyond their useful life. Recommend replacement
21	Air Handling and Ventilation Systems	Original building, 1958, central air handling units with pre-heat steam coil, ductwork distribution system in crawlspace. Relief air is transferred into corridor through gaps in corridor glass. Per SED and IBC codes, corridors cannot be used as plenum spaces. Recommend upgrade exhaust air system utilizing powered roof exhausters and ductwork system.
22	Air Handling and Ventilation Systems	Gymnasium, Auditorium and Stage, Area "B". Existing air handling units no longer function. Recommend complete refurbishment including new fan motor, belts, sheives, upgraded controls and upgrade return and outdoor air dampers, and balancing
23	Air Handling and Ventilation Systems	Guidance Office (Second Floor): Office spaces currently have no mechanical ventilation. Recommend new package rooftop unit with cooling and heating coil. Unit shall be ducted supply and return with VAV (variable air volume) devices for individual room control. Provide Direct Digital Control System (DCC)
24	Heat Generating Systems	Boiler room ventilation upgrade. Provide new fixed louver and automatic air dampers. Louvers shall be sized to provide adequate combustion air quantities for boilers and provide ventilation to control temperature in adjacent Transformer Room. Provide new roof mounted ventilator with automatic air damper. Ventilator shall be ducted to Boiler Room to relieve excess heat which also contributes to overheating in Music Room above.
25	Replace Steam Heating system in 1950's original building	The original heating systems consist of steam for approximately 150,000 sf of the building, and hot water for the remainder, and they are original to the building. The systems are over 50 years old, and not efficient. We would suggest replacing the entire system (with possibly the exception of the hot water piping), to ensure another 75+ years of useful service and better energy efficiency. Cost: 205,000 sf x \$35/sf.

**Elementary / Intermediate School - EXCEL (continued)**

**Electrical / Tech Work**

26	Electrical	Provide additional auditorium house lights to improve over light levels
27	Interior Electrical Distribution	Existing 1200 and 1600 amp fused switches and distribution gear is nearing the end of it's useful life. Replacement parts are increasingly harder to locate. Recommend replacing with (1) new 2500 amp Main Disconnect to refeed existing MDP. Replacement will improve capacity and reliability. Provide (1) additional Distribution section for increase capacity
28	Interior Electrical Distribution	Existing circuit breaker type secondary distribution panels are full to capacity and nearing the end of their useful life. Replacement parts are increasingly harder to locate. Recommend replacing all existing power panel with new circuit breaker type power panel for increased capacity and reliability.
29	Interior Electrical Distribution	Provide additional convenience receptacles in most classrooms and offices to dis-courage the use adaptors and extension cords. Provide additional power panels for additional breaker space for additional conveniences receptacles. Cost assumes (4) panels.
30	Interior Electrical Distribution	Replace remaining cloth. (Type RHW insulated) wire in the original 1958 building with new THHN-THWN thermo-plastic insulated wire to improve building safety.
31	Fire Alarm Systems	(2) set of smoke control doors in C wing does not have required magnetic hold opens. Provide and connect hold opens to comply.
32	Site Electrical, Including Exterior Dist.	Utility owned overhead primary across site to service pole drop adjacent to the Elementary entry. (unsightly) To existing district owned pad mount transformer. Service is nearing the end of it's useful life. Recommend replacing service with new underground service from street to new pad mount transformer. Locate new transformer around back of building near loading dock. Cost assumes new underground primary feeder, new pad mount transformer, new underground secondary into building
33	Electric Motor Replacement	Replace the existing electric motors - using NYSERDA grant monies?
34	Replace Gym Lighting	All 3 gyms, will pay for itself on savings
35	Occupancy Sensors	At Classrooms - Energy Conservation
36	New Clocks	
37	New PA	
38	New Fire Alarm System	Provide new fire alarm system (bldg sf = 205,000). Bid cost for 6431 was \$240,000.

**Elementary / Intermediate School - EXCEL (continued)**

**Plumbing Work**

39	Water Distribution Systems	Provide a reduced pressure zone (RPZ) backflow prevention device on the boiler system fill line and on makeup water line to condensate receiver to guard against contamination of the potable (building) water system.
40	Hot Water Heaters	Provide a commercial, coil type, gas fired summer water heater to produce hot water directly during mild weather. This would allow the building heating system to be shut down. Water heater would be connected to the domestic hot water storage tank and would provide sufficient hot water for all normal building functions
41	Water Distribution Systems	Add/Replace gate valves with ball/butterfly valves to improve system serviceability and reliability
42	Water Distribution Systems	Replace galvanized water distribution piping throughout the building with copper piping to improve system serviceability and reliability.
43	Plumbing Fixtures	Remove plumbing fixtures in Locker Rooms and Shower Rooms currently used for other functions enhance the usability of these spaces.
44	Replace Hot water tank	Existing tank 30 years old
45	Misc. Toilet Room improvements	Items not selected as part of 6431.

**Asbestos Abatement Work**

46	Asbestos Abatement	Provide asbestos abatement work in association with interior infrastructure upgrades. Will require extensive study to determine exact scope of work required, \$ amount given is a placeholder.
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## High School - EXCEL

BCS No.	ITEM	RECOMMENDATION
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### General / Site Work

47	Exterior Doors	Includes exterior doors in the original 1972 building
48	Windows	Windows in original 1972 building are in poor condition and should be replaced within the next 5 years
49	Elevator upgrades	Not done in 2000 Project
50	Refinish Gym floor	Refinish exg. wood floor (approx. 14,092 sf x \$3.50/sf)
51	Cafeteria windows/ Skylight	Save Energy and near end of life cycle
52	Track Resurface	Should be done every 8-10 years
53	New Sidewalks	Provide new sidewalks at the back HS exits
54	Carpet at Main Office	Replace the carpeting at the Main Office and waiting area (1,025 sf x \$30/sy)
55	New Door at Guidance Office	Provide new door at the Guidance office (to match existing)
56	New Door at Art Room 123	Provide new door at Art 123 to match existing.
57	Replace Auditorium Seating	Provide new auditorium seating for approximately 600 seats
58	Site Storm Drainage	Pond maintenance including sediment removal should occur in 2006
59	Rebuild, Build & Motorize Bleachers	To rebuild would equal \$100,000; price shown is to replace with new bleachers.
60	New Portable Bleachers	Provide 2 sets of portable bleachers to replace seating lost with new aisles at mains
61	Replace Gym Folding Doors and Motors	Need Replacement - End of Useful Life. There are 3 partitions to be replaced, number includes demo and req'd soffit work.

### HVAC Work

62	Boilers	Replace Exg. Boilers ( two, 250 hp boilers)
63	HVAC Control Systems	DDC control is provided in majority of building. Recommend upgrade of additional areas currently under pneumatic control

## High School - EXCEL (continued)

### Electrical / Tech Work

64	Lighting Fixtures	Provide interior lighting occupancy sensors in classrooms and offices in the 1974 portion of the building where they don't currently exist for improved efficiency. Cost assumes 50 locations.
65	Communications System	Provide a split system HVAC unit in telecommunications rooms B101, C222, D211 and F222
66	Communications System	Provide telecommunications grounding system in all telecommunications rooms
67	Emergency/Standby Power Systems	Existing 500 kw gen set was used when installed in 1984. Actual age is unknown. Replacement parts are becoming increasingly harder to find. Unit is oversized for the building. Recommend replacing EM generator with new properly sized for required loads of the H.S. building. Cost assumes 200 kw pad mount Generator
68	New Gym lights	Energy savings
69	Assistive Listening at Auditorium	Provide new assistive listening devices at the auditorium; equipment costs are shown - if sound system cannot accept new devices, then new sound systems required, essentially tripling the cost.
70	Auditorium - Add motorized lighting bar	Provide motorized lighting bar(s) to eliminate the need for a catwalk system.
71	Fire Alarm System	Install new fire alarm system.
72	Electrical upgrades for Folding partitions at Gym	Replacement of 3 folding partitions at the HS Gym will include some upgrades for electric as well, such as reversing sensors, power connections and controls, etc.

### Plumbing Work

73	Hot Water Heater Inspection - See New Item below	Provide an internal inspection of the domestic hot water storage tank to assess condition of tank and lining and determine need for replacement, relining, etc. ( See below for cost of new tank if required )
74	Plumbing Fixtures	Renovate gang toilet rooms C127A, C127B for handicapped accessibility.
75	Plumbing Fixtures	Replace outdated electric water coolers throughout building and washfountain fixtures in Toilet Rooms C127A, C127B, D218, E100, E102, E200, E202, and Locker Room F216 to improve operation, appearance and serviceability and to provide access to the physically handicapped (total of 6 coolers and 8 washfountains).
76	Plumbing Fixtures	Replace cracked urinals in Toilet Room E200 improve operation, appearance and serviceability (total of 3). Replace toilet and urinal hardware (flush valves & toilet seats) on fixtures in Toilet Rooms C127A, C127B, D218, E100, E102, E200, E202, and Locker Rooms F216 and F233 to improve operation, appearance and serviceability (total of 29 toilets and 13 urinals).

## High School - EXCEL (continued)

### Plumbing Work (continued)

77	Plumbing Fixtures	Provide white, seamless and antimicrobial vinyl insulation systems on the traps and supplies of the current handicap accessible lavatories to bring fixtures into full compliance with current ADA Guidelines (total of 10)
78	Fire Suppression Systems	Provide a fire extinguisher and recessed cabinet in the corridor between Video/CAD Drawing C122 and Photography C123 to eliminate excessive travel distance to a corridor located extinguisher.
79	Fire Suppression Systems	Provide an automatic fire sprinkler system in the flyspace of the Auditorium Stage and at both levels of Storage Room C119 in the ROTC Suite.
80	Plumbing Drainage System	Reroute soil pipe that currently passes directly over electrical switchgear near Boiler Room to eliminate potentially hazardous condition.
81	New Hot Water Storage Tank	If inspection shows replacement is necessary, replace hot water storage tank with new

### Asbestos Abatement Work

82	Asbestos Abatement	Provide asbestos abatement work in association with interior infrastructure upgrades. Will require extensive study to determine exact scope of work required, \$ amount given is a placeholder.
83	PCB window caulk	We will need to test for PCB's in the window caulk. This new regulation will require testing, and if positive, then removal of the caulk as contaminated waste. Cost shows worst case scenario.

## Middle School - EXCEL

BCS No.	ITEM	RECOMMENDATION
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### General / Site Work

84	Roof and Skylights (none)	Replace roof and add insulation
85	Interior Walls (none)	Provide wall pads at all unprotected surfaces in Gymnasium. Include removable pads at doors and bleachers
86	Drainage / field repair at Pit	Rehabilitate "Pit" field to improve drainage

## Middle School - EXCEL (continued)

### Electrical / Tech Work

87	Interior Electrical Distribution	Provide ADA compliant Assistive Listening on Gymnasium and Auditorium Sound Systems; equipment costs are shown - if sound system cannot accept new devices, then we would reconfigure exg. system as required.
88	Upgrade PA system	\$'s are to replace the entire system... if wiring & exg. devices are reusable, save \$150k .
89	Upgrade to T5 lights in Gym	Provide T5 lighting in the Gymnasium

## Bus Garage - EXCEL

BCS No.	ITEM	RECOMMENDATION
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### General / Site Work

90	Site Storm Drainage	Excavate drainage swale at the bottom of slope to the rear of the site. Provide drain tile below trench (to daylight) Fine grade and seed
91	Pavement (Roadways and Parking Lots)	Remove and replace existing deteriorated asphalt paving in area around fuel pumps. Test exg. base below existing pavement and remove and replace if necessary.
92	Replace Roofs and Skylights	The roof over the shop and office areas has reached the end of it's useful life and is leaking near the main door. Replace with metal roofing system.
93	Parking Lot	Replace all Black Top- end of serviceable life
94	Replace the Main Bus Lift	Install new bus lift
95	Install 2nd Bus Lift	Install new bus lift
96	Expand Bus Wash, relocate "small" lift into the expanded area	Expand and / or replace exg. bus wash, install new wash system, waste water recycling system? Dollars shown include new structure.
97	Blacktop and Drainage	From facilities evaluation...replace exg. paving and fix drainage concerns.
98	Install new gutters/downspouts	Install new gutter perimeter roof drainage system at rear of bus garage
99	Grade and underground piping	Install new grade drain and 75'-0" of underground piping to drain water flow from roof / new gutter system.

## Bus Garage - EXCEL (continued)

### Electrical / Tech Work

100	Site Electrical, Including Exterior	Replace existing bus heater receptacles, circuitry and associated distribution.
101	Fire Alarm Systems	Provide new fully addressable Fire Alarm System for improve building and occupant protection. System to be connected to local municipal fire district.
102	Lighting fixtures	Provide additional HID lighting in work bays for improved lighting.
103	Lighting fixtures	Replace existing incandescent style pot lights surrounding exterior parking for improved and more efficient lighting. Cost includes new poles, circuitry and HID lighting fixtures
104	Replace exg. electrical system	Replace entire electrical system, wiring, etc.

### Asbestos Abatement Work

105	Asbestos Abatement	Provide asbestos abatement work in association with roof replacement and infrastructure work. Will require study to determine exact scope of work required, \$ amount given is a placeholder.
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### Plumbing Work

106	Fire Suppression Systems	Add automatic fire suppression system to unleaded gasoline fuel dispenser
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## District Wide Upgrades - EXCEL

BCS No.	ITEM	RECOMMENDATION
<b>Electrical / Tech Work</b>		
107	CCTV Surveillance System	Provide CCTV surveillance system across all facilities
108	Intrusion Detection System	Provide intrusion detection system across all facilities
109	Access Control System	Provide access control system across all facilities
110	Site Access Control Procedures	Provide site access control procedures across all facilities
111	School Bus Video System	Provide school bus video system across all facilities
112	Add / Upgrade Exterior Lighting	Provide additional site lighting at Route 6 Campus to improve visibility. All other lighting improvements discussed except for summer 2007 work.
113	Districtwide Radio Communication Upgrade	Provide new, upgrade districtwide communications, ie cell phones/walkie talkies with GPS? With require multiple base station repeaters...
114	New ceiling mounted projectors for all classrooms in the District	Provide new infrastructure to allow installation of new ceiling mounted projectors at the exg. MS, E/I and HS. Cost shown is for the infrastructure (cabling) required, the actual projector cost will be carried under the F & E incidental budget.