



Identifying & Funding

School Maintenance

Sometimes, even if I stand in the middle of the room, no one acknowledges me.



Regulation

- ◊ Water quality
- ◊ Air quality
- ◊ Radon
- ◊ Asbestos
- ◊ ADA Compliance
- ◊ ??

[https://nces.ed.gov/pubs2003/
maintenance/pdf/a_D.pdf](https://nces.ed.gov/pubs2003/maintenance/pdf/a_D.pdf)

Identifying Problems

EXTERIOR Envelop

o Walls

- o Exterior Walls
- o Curtainwall
- o Finishes–Ceilings
- o Masonry

o Roof

o Skylights

o Doors

- o Doors/Hardware-
Exterior

o Windows

INTERIOR ENVELOPE

o Classrooms

- o Finishes–Ceilings**
- o Finishes–Floors**
- o Finishes–Walls**
- o Chalkboards & Markerbds**
- o Bulletin Boards**

o Offices

- o Finishes–Ceilings**

o Finishes–Floors

o Finishes–Walls

o Music Room

o Auditorium

- o Auditorium Seating**
- o Stage Curtain**
- o Handicapped Access**

○ **Media Center**

○ **Art Room**

○ **Science Room**

○ **Life Skill/Home Ec**

○ **Teachers Room**

○ **Technology Ed**

○ **Small Group**

○ **Gymnasium**

○ Bleachers

○ Finishes–Ceilings

○ Finishes–Floors

○ Finishes–Walls

○ Gym Partitions

o Cafeteria/MP Room

o Kitchen

o Nurse

o Toilet

Room/Restrooms

o Toilet Partitions

o Handicapped Access

o Plumbing

o Mechanical Room

o Janitor Closet

o Storage

o Stairs

o Railings

o Guard Rails

o Stair Treads

o Corridors

- o Lockers**

o Handicapped Access

- o Ramps–Interior**

- o Railings**

- o Doors**

- o Doors/Hardware-
Exterior**

- o Doors/Hardware-
Interior**

- o Elevators/Lifts**

- o Elevator**

o Structural Issues

o Misc.

- o Sump Pump**

- o Swimming Pool**

o Power & Distribution System

- o Electrical–Service**

- o Electrical–Distribution**

- o Electrical–Wiring**

- o Electrical–Receptacles**

- o Electrical–Transformer**

◊ **Communication Systems**

- ◊ Cable TV System
- ◊ Clocks & Program
- ◊ Local Area Network
- ◊ Public Address System
- ◊ Security System

◊ **Lighting Systems**

- ◊ Lighting–Exterior
- ◊ Lighting–Interior
- ◊ Lighting–Theatrical

◊ **Emergency and Exit Systems**

- ◊ Egress Lighting
- ◊ Emergency Generator
- ◊ Exit Signs

◊ **Fire Alarm Systems**

- ◊ Fire Alarm–Main Panel
- ◊ Fire Alarm–Remote
- ◊ Fire Alarm–Detection System

Each Table Is A Group

- Share some of the ways you have funded maintenance, renovation, and new construction (10 minutes)

Discussion

- Each table shares discussing boards

Suggestions

- o Rent to own – Private Organizations, business build facility
- o Performance based
 - o Doors
 - o Windows
 - o Lighting

http://www.21csf.org/best-home/docuploads/pub/237_FixAmericasSchoolsFinal.pdf

U.S. Scenario

- Average U.S. public school building is 40 years old, and many are much older
- Cost of maintaining these schools and facilities in good repair is enormous.
- GAO and the American Society of Civil Engineers, school districts have chronic deferred maintenance and
 - energy inefficiencies
 - unsafe drinking water
 - water damage
 - moldy environments
 - poor air quality
 - inadequate fire alarms and fire safety
 - compromised building security, and structural dangers

Scenario, Cont.

- o Project to address this backlog could create hundreds of thousands of jobs
 - o construction workers
 - o building technicians
 - o HVAC repairmen
 - o electrical workers
 - o roofers
 - o plumbers
 - o painters,
 - o plasterers
 - o Other jobs and laborers
 - o building maintenance workers
- o Construction and building repair generally create 9,000–10,000 jobs per billion dollars spent.
- o Eliminating even half of the entire backlog and improvements could create more than two million jobs
- o Addressing even one-tenth of the needed improvements immediately create half a million jobs.
- o 1.5 million construction workers are unemployed

Scenario, Cont.


- Improve teacher and student morale
- Boost student achievement
- Improve the health and safety of school communities.
- Quality teachers are attracted to better facilities, attendance for students
- Students are healthier and achieve more

Funding Appropriated

- Competitive grants according to eligibility rules based on:
 - percentage of poor children
 - need for school repair and renovation
 - limited LEA fiscal capacity
 - estimate of new jobs or extra hours created by the project
 - estimate of energy savings

http://www.21csf.org/best-home/docuploads/pub/210_ResearchontheImpactofSchoolFacilitiesSince2000-Reformatted2016.pdf





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