Oak Park Elementary School District 97

970 Madison ▪ Oak Park ▪ Illinois ▪ 60302 ▪ ph: 708.524.3000 ▪ fax: 708.524.3019 ▪ www.op97.org

TO: Dr. Albert G. Roberts, Superintendent of Schools

FROM: Therese M. O'Neill, Asst. Supt. for Finance & Operations

SUBJECT: 10-Year Life/Safety Survey (Brooks & Julian Middle Schools)

DATE: May 8, 2012

The prescribed process for completing the 10-Year Life/Safety Survey is as follows:

1. The Architect surveys District school buildings identifying any Life/Safety or code related violations.
2. The list of violations is submitted to the District for review and approval prior to submission to ISBE (Illinois State Board of Education).
3. Once approved by the District, the Architect will submit to ISBE.
4. Once the Architect submits to ISBE, the District will receive notification and will need to approve once again.
5. Once the District approves, it will be forwarded to West 40 for approval and then it is forwarded to ISBE.

Brooks and Julian Middle Schools were available for occupancy in December, 2000 which required the first 10-year survey by December, 2010. We were informed in January, 2011 that nothing was on file and we were required to comply. Over the summer of 2011, the survey was completed by DLA Architects; and, it was submitted and reviewed by FAC; and, finally, its contents have been included in the 10-Year Capital Projects Plan still in the process of fine-tuning.

It is now being presented to the Board for review and approval and, following same, will be returned to the architect for submission to ISBE.

tmo

attachments (3)

WEST 40

INTERMEDIATE SERVICE CENTER NO. 2

Albert G. Roberts
Superintendent of Schools

Oak Park District 97

970 W. Madison Street

Oak Park, IL 60302

Dear Superintendent Roberts;

RE: Oversight of 10 Year Safety Survey Process

The Illinois State Board of Education, via the Regional Office of Education / ISC, is charged with the oversight of the 10 Year Safety Survey process pursuant to Section 2-3.12 of the School Code <105 ILCS 5/2-3.12/>. We are currently reviewing 10-year surveys submitted by school districts and have determined that the following school districts are past due in submitting reports for one or more of their buildings.

The latest approved report for a facility above is dated prior to December 9, 2000. We are following up with the school district(s) to ensure that a 10-year Safety Survey is conducted and submitted for approval to The Regional Office /ISC (WEST 40) and the State Board via the Health Life Safety System through IWAS. Please contact your District Architect and arrange for them to contact our office for the purpose of setting up a 10Yr Safety Survey Compliance Meeting within the next 30 days.

We share with you the desire to maintain all school buildings in a safe condition and to provide an environment that is conducive to learning. Your assistance is appreciated.

Please contact Richard D. Erdman or me at 708-544-4890 if you have any questions.

Sincerely,

Kay Poyner Brown, Executive Director

Facility /Buildings Past Due in 10Yr Safety Survey Reporting:

RCDT	Bldg#	Facility Name	Survey Received (ISBE)
06016097002	2264	PERCY JULIAN MIDDLE SCHOOL	01/02/96

2nd Floor West • 2701 West Washington Boulevard • Bellwood, Illinois 60104 • Phone (708) 544-4890 • FAX (708) 544-4891

February 22, 2012

10 Year Life Safety Survey Report

For

Oak Park Elementary School District 97

Gwendolyn Brooks Middle School

325 S. Kenilworth Ave,
Oak Park, IL 60302

Project No. R.11.013

Brooks Middle School
Oak Park, Illinois

I. GENERAL

ENROLLMENT:	845 students
CONSTRUCTION:	Plan Classification: B (BOCA 96) Type II – Protected noncombustible construction
LOCAL FIRE ALARM:	The fire alarm system has a radio alarm transmitter that is monitored by Alarm Detection Services. There is an auto-dialer that contacts designated district personnel.
NEAREST FIRE STATION:	0.5 miles
CITY WATER:	The domestic water service enters the building at the Mechanical Room. An 8" combined service splits to an 8" tee for fire sprinkler service and 4" domestic water service. The 4" incoming water service has a 4" water meter, reduced pressure backflow preventer and service shut-off valve.

II. CONSTRUCTION DETAILS

YEAR BUILT:	2000
HEIGHT:	Four stories
GROUND FLOOR AREA:	69,160 square feet
EXTERIOR WALL CONST.:	Masonry- brick facing on CMU backup; insulated metal wall panels on CMU backup; EIFS on CMU wall construction; EIFS on metal stud wall construction
FLOOR CONSTRUCTION:	First floor– Concrete slab on grade Other floors –Concrete on metal pan type construction
ROOF CONSTRUCTION:	Single-ply membrane over rigid insulation on steel construction
INTERIOR WALL CONST.:	Exposed masonry; metal framed gypsum board faced partitions
INTERIOR FINISH:	Walls - painted masonry and painted gypsum board.

	Ceiling - acoustical tile and painted gypsum board
TRANSOMS AND CEILING LEVEL GLASS:	Transoms at door openings

III. EGRESS FACILITIES

GRADE EXITS:	Adequate and well arranged. Panic hardware installed and maintained where required.
CORRIDORS:	Adequate in protection, height and width with the exceptions as noted in this report. Smoke doors provided are adequate with the exceptions as noted in this report.
STAIRWAYS:	Exit stairs comply with requirements as to design and construction. Enclosures are provided where required.
WINDOWS:	Are not required as a secondary means of escape.
FIRE ESCAPES:	Not required
EXIT SIGNS:	Exit signs are located throughout the school. The signs are battery unit type. The exit signs are LED and are in decent shape. Some areas of the school do not have adequately located exit signs and additional signs are needed. The existing exit signs are indicated on the plans.
EMERGENCY LIGHTING:	The emergency lighting system consists of battery operated emergency lights. The battery lights are indicated on the drawings. The battery lights appear to be in decent shape. However, we did not test each battery unit. These should be tested yearly by the district. There are night lights (24 hour operation) located throughout the school, but these are not connected to an emergency backup source and therefore are not considered emergency lights.

IV. SPECIAL OCCUPANCIES

AUDITORIUM:	2000 Original Building – actual room occupancy is posted at 489

GYMNASIUM:	2000 Original Building – actual room occupancy is posted at 550 for assembly events and 400 for sporting events
AUXILIARY GYMNASIUM:	2000 Original Building – actual room occupancy is posted at 429
CAFETERIA / COMMONS:	2000 Original Building – actual room occupancy is posted at 601
MEDIA CENTER:	2000 Original Building – actual room occupancy is posted at 125
MECHANICAL EQUIPMENT & STORAGE ROOMS:	2000 Original Building

V. UTILITIES

HEATING PLANT:	The school is heated using a hot water heating system and with rooftop units with gas fired heat. The two central plant boilers are Cleaver Brooks, Flexible Watertube Boilers, Model FLX, Size 350, power burner, natural gas fired each with a capacity of 3,500 MBH Input, 2800 MBH I=B=R gross output. Each boiler has a circulating pump; Bell & Gossett Series 60 in-line pump with a drawing scheduled capacity of 50 gpm at 25 foot head, each with a 1 hp, 480 V, 3-phase, 60 Hz motor. A second pair of pumps distributes heating hot water to the school. Pumps are Bell & Gossett Model 1510-3E centrifugal base mount for 455 gpm at 90 foot head, each with a 20 hp, 480 V, 3-phase, 60 Hz motor. One pump is standby.
HEAT DISTRIBUTION:	Heating hot water is distributed to ceiling radiant panels, finned tube, convectors, unit heaters, cabinet unit heaters, and fan powered VAV boxes.
VENTILATION:	Classrooms are heated, air conditioned and mechanically

ventilated using packaged, variable air volume, electric cooling and gas heat rooftop units (RTU-1 and RTU-2). Each classroom has a fan powered, VAV box with hot water heat.

Auditorium is heated, air conditioned and mechanically ventilated using a packaged, constant volume, electric cooling and gas heat rooftop unit (RTU-3).

Fine Arts Classrooms are heated, air conditioned and mechanically ventilated using a packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-4). Each classroom has a fan powered, VAV box with hot water heat.

Stage is heated, air conditioned and mechanically ventilated using a packaged, constant volume, electric cooling and gas heat rooftop unit (RTU-5).

Cafeteria/Commons and Media Center each are heated, air conditioned and mechanically ventilated using a packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-6). Each space has one or more fan powered, VAV boxes with hot water heat.

School Offices (first and second floor) and second floor fitness room are heated, air conditioned and mechanically ventilated using packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-7). Each space has one or more VAV boxes or fan powered VAV boxes with hot water heat.

Auxiliary Gym is heated and mechanically ventilated using single zone, constant volume, rooftop unit with gas heat (MAU-1).

Main Gym is heated and mechanically ventilated using single zone, constant volume, rooftop unit with gas heat (MAU-2).

All rooftop air handlers are manufactured by Trane.

AIR CONDITIONING: Packaged rooftop units, as noted above, air condition the

majority of the building. The main gym and auxiliary gym are NOT air conditioned.

The Auditorium Dimmer Room and the MDF Closet are cooled via ductless split systems air conditioners with roof mounted, air cooled condensing units.

WATER HEATER: The domestic hot water source for the school is a pair of A.O. Smith, Model BTP140-540, natural gas fired, natural draft, storage tank type heaters each having a recovery capacity of 524 gph at a 100°F rise, storage capacity of 140 gallons, a natural gas input of 540 mbh, a pressure rating of 160 PSI, 120V, 1-phase controls.

Domestic hot water at the source is 130°F supplies a Lawler, Model 805 thermostatic mixing valve set to 110°F for distribution to the school.

INCINERATOR: None

GAS SERVICE: The incoming natural gas service enters the school at the first floor Mechanical Room as a 6" NPS.

DUST COLLECTOR: None

ELECTRICAL SYSTEM: There are three meters off of one electrical service. The electrical service is underground and is 277/480 volt, 3-phase, 4 wire. The maximum demand for the school in the past 24 months was 770.83 kilowatts (925 amps). Based on the demand, the main electrical service is sized adequately.

Meter #1: The main switchboard is rated for 4000 amps and has one main switch rated 4000 amps. The main switch has a ground fault protection system.

Meter #2: Fire pump controller for a 100 HP fire pump.

Meter #3: "Emergency Service" includes night lights and smoke exhaust system. This service is not an emergency service because there is no backup emergency power such as a generator or inverter system.

General lighting uses T8 lamps and energy efficient ballasts. Illumination levels appear adequate.

PLUMBING:

The plumbing systems include domestic cold, hot, and hot water recirculation, sanitary waste and vent, storm water.

The domestic water service enters the building at the Mechanical Room. An 8" combined service splits to an 8" tee for fire sprinkler service and 4" domestic water service. The 4" incoming water service has a 4" water meter, reduced pressure backflow preventer and service shut-off valve.

The Booster Pump system has a drawing scheduled capacity 210 gpm. The system is manufactured by Metropolitan Pump, Model VES-CS-88D-PH-66. It is a duplex system with two Burk pumps with 7.5 Hp motors at 480 Volts, 3-phase, 3500 rpm motor.

The school has a grease trap for the kitchen grease waste located in the kitchen slab.

VI. PRIVATE PROTECTION

FIRE ALARM SYSTEM:

The fire alarm system is an addressable system. The manufacturer of the main control panel is Notifier and is most likely model number AM-1010. Based on documentation, it appears the system was installed when the school was built (around 2000). The system should be maintainable for several more years with proper yearly testing and maintenance. The main fire alarm control panel is located in Electrical Service C103. There are three fire alarm annunciator panels: one in Vestibule D101, one in Vestibule A101 and one in the maintenance office. Smoke detectors, pull stations, audible devices and visual devices are located as indicated on the plans. Parts are no longer available for the control panel but retrofit CPU's and compatible cards are available using either a 640 or 3030. According to the school district, the system is difficult to maintain.

AUTOMATIC SPRINKLERS:

The building is completely sprinklered with a wet pipe

system via an 8" service with backflow prevention. There is no storage under main auditorium stage. Sprinkler system is supplied by the fire pump.

AUTOMATIC HEAT DETECTION: There are automatic heat detectors for the elevator shunt trip. There are heat detectors located in the kiln room. There are no other heat detectors because the building is fully sprinklered.

ATRIUM SMOKE EXHAUST SYSTEM: Four roof mounted exhaust fans, each at 32,000 cfm, exhaust the four story atrium. Fans are controlled by the fire alarm system. For make-up air, the exterior doors have door operators that open the exterior doors when the system is activated.

FIRE PUMP: A fire pump supplies the standpipes and fire sprinkler system. The pump is an Aurora Pump with a capacity of 1250 gpm at 100 psi with 125 hp, 480 V, 3-phase motor. An Aurora jockey pump maintains system pressure with 1-1/2 hp, 480 V, 3-phase motor.

. STAND PIPE HOSE LINES: The school is provided with standpipes with 2-1/2" fire department hose valves. Standpipes are supplied by the fire pump.

FIRE EXTINGUISHERS: Portable fire extinguishers are located where indicated on the drawings and their locations meet the requirements of NFPA.

VII. SECURITY SYSTEM The interior door from Vestibule A101 to Main Office / Reception A102 has an electric door strike that is opened with a push button at the reception desk using line of sight for visual verification. Cameras and motion detectors and other security devices are located throughout the facility. There are security door contacts at all exterior doors.

VIII. ENERGY CONSERVATION The building automation system provides night setback control. There are no automatic lighting shutoff controls for interior lighting. The exterior light fixtures are controlled by a timeclock.

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: **Brooks Middle School**

ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
A1	A116, A121, B100, C109, C118, D111, D112, E101, A201, A212, B209, C202, C209, B300, C315, C302, C309, D307, B400, B409, C414	BOCA 717.5	Fire doors do not latch completely to the frame.	Adjust doors and closer or install new closers to allow for proper operation	b.	Adjust doors and closer or install new closers	EA	35	Contractor	$21,000	5-years	
A2	D203A, D308	BOCA 302.1.1	Doors in smoke partitions are to be self closing or automatic closing. The doors in these openings do not close completely	Adjust doors and closer or install new closers to allow for proper operation	b.	Adjust doors and closer or install new closers	EA	2	Contractor	$1,200	5-years	
A3	A116, D108, D111, D112A, D115, D116, E101	BOCA 717.5	Fire door is maintained open with an object where door is required to be self closing or automatic self closing	Remove hold open object to maintain door closed	a.	Remove hold open devices	EA	8	Owner	$0	1-year	
A4	D100	BOCA 717.5	Fire doors rub against floor surface or against each other preventing the door from self closing or self latching	Adjust doors and closer or install new closers to allow for proper operation. Undercut door as required for proper door operation	b.	Adjust doors and closer or install new closers	EA	2	Contractor	$2,400	5-years	
A5	B102, C102, B202, C202, B302, C302, D304, B402, C402	BOCA 1005.3	Bottom edge of wall mounted TV protrudes into the path of egress.	Remove TV or relocate higher so that the bottom edge of the TV is a minimum of 80" above the finished floor	b.	Remove TV or relocate higher	EA	9	Owner	$0	5-years	
A6	C300	BOCA 717.5	Door closer on fire door is not securely attached compromising the self-latching mechanism	Repair or replace door closer	b.	Repair or replace door closer	EA	2	Contractor	$1,200	5-years	
A7	A102, A109, A116, B109, B100, C100, E104, A203, B200, B209, B300, B302, B309, C320, C300, C302, D300, C402	BOCA 711.4	Unsealed penetrations through fire partition compromises the required fire resistance rating	Fire seal penetration to maintain fire resistance rating	b.	Fire seal penetration	EA	18	Contractor	$54,000	5-years	
A8	A125, A129, A202, D202, D203A, D203B	BOCA 302.1.1	Unsealed penetrations through smoke partition compromises the required separation	Seal penetration to maintain required separation	b.	Fire seal penetration	EA	6	Contractor	$18,000	5-years	
A9	C115, A200a, A201, C200, A302, A303	BOCA 709.4	Unsealed penetrations through fire separation assembly	Fire seal penetration to maintain fire resistance rating	b.	Fire seal penetration	EA	7	Contractor	$21,000	5-years	
A10	D107A, D107B	BOCA 302.1.1	Top of wall does not have the required firesafing and compromises the required separation	Fire seal top of wall	b.	Fire seal top of wall	EA	8	Contractor	$6,000	5-years	
A11	A210, A212A, B202, C219	BOCA 711.4	Fire partition does not extend to underside of deck above	Extend walls to underside of deck above to maintain fire resistance rating	b.	Extend walls to underside of deck above	EA	4	Contractor	$12,000	5-years	
A12	B100, C400	BOCA 717.4.1	Glass in fire door is not labeled. Fire protection rated glass must be labeled	Replace with fire-rated glazing	b.	Install fire-rated glazing	EA	2	Contractor	$2,400	5-years	

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A13	D107A, D107B, D106, D109, E104, A202, E306, E307	BOCA 302.1.1	Doors in smoke partitions are to be self closing or automatic closing	Install door closer	b.	Install door closer	EA	11	Contractor	$6,600	5-years	
A14	B202, C214, C219,	BOCA 717.5	Rated doors do not have the required closer and therefore are not self closing	Install door closer	b.	Install door closer	EA	3	Contractor	$1,800	5-years	
A15	D112	BOCA 412.3.1, BOCA 1012.0	A stage extension was added to the original stage. That stage extension is constructed with combustible materials not allowed for the type of construction of the building. The stage extension impedes into the aisle accessway that leads to Stair D113. In addition, the stage skirt used to cover the framing of the stage does not have a label indicating that the drape material is fire-treated. The skirt also extends into the aisle creating a tripping hazard and restricting the aisle accessway. A set of stairs without handrails lead directly from the aisle to the stage and block the aisle accessway width as well. The floor of the stage extension is not flush with the original floor stage and cables are projecting through the stage floor creating a tripping hazard.	Remove stage extension or re-build stage extension using material allowed for the type of construction of the building and maintaining required aisle accessway width	a.	Remove stage extension	EA	1	Contractor	$4,800	5-years	
A16	A102, A120, D100, A201, D300, D304,	BOCA 1006.2	Storage or other objects are impeding the path of egress.	Remove storage or objects from path of egress travel.	a.	Remove storage	EA	7	Owner	$0	1-year	
A17	B315	BOCA 1022.0 & BOCA 1606.4	Handrail at stairs are not secure to wall	Secure handrail to the wall	b.	Secure handrail	EA	1	Contractor	$600	5-years	
A18	C400	BOCA 717.5	Vertical rod on door is broken preventing the door to latch properly. Door is to be self-latching.	Repair or replace door hardware	b.	Repair or replace door hardware	EA	1	Contractor	$600	5-years	
M1	Main Mechanical Room C115	1996 IMC 607.5	Every fire damper shall have a tight fitting access door. The fire damper access door is open.	Re-install access door in duct opening.	a.	Owner to re-install access door in frame in duct.	EA	1	Owner	$0	1-year	-------
M2	Main Mechanical Room C115	1996 IMC 707.1	Opening in outside air duct routed to combustion air unit.	Close opening in outside air duct so all combustion air is drawn from outside (not drawn from the same room).	a.	Secure piece of sheet metal over opening and seal air tight.	EA	1	Contractor	$600	1-year	-------

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

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ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
M3	Main Gym A123	1996 IMC 603.20	Return air grilles are not properly installed.	Install new return air grills with proper support for normal activity level of space.	a.	Provide new grilles with supplemental support around masonry opening.	EA	2	Contractor	$3,600	1-year	-------
M4	Locker Room A121	1996 IMC 603.20	Transfer air grill is missing.	Install new transfer air grill with proper support for normal activity level of space.	a.	Provide new grill with supplemental support around masonry opening.	EA	1	Contractor	$1,200	1-year	-------
M5	Staff Shower A208	1996 IMC 1301	Abandoned gas line with open pipe (with valve closed).	Secure system so valve could not be accidentally opened.	a.	Remove abandoned piping or close end of piping with pipe cap.	EA	1	Contractor	$1,200	1-year	-------
F1	Site	1996 BNFPC F-518.3	Immediate access to fire department connection is not available because of over grown bushes.	Trim and/or remove landscaping which is obstructing access to fire department connection.	a.	Owner to trim and/or remove over grown landscaping.	EA	1	Owner	$0	1-year	-------
F2	Closet in Principal A 104, Main Office/Reception A102, Storage B214, and Closet C2??	1996 NFPA 13	Space (closet) is not protected by wet pipe fire sprinkler system. To be a "fully sprinklered" building, closets must be protected.	Provide new fire sprinkler head in closet.	a.	Provide fire sprinkler head in closet piped to existing wet pipe fire sprinkler system.	EA	3	Contractor	$3,600	1-year	-------
F3	Classroom B309	1996 NFPA 13	Proper water flow from sprinkler head not possible because sprinkler head and escutcheon hanging below ceiling.	Raise sprinkler head and escutcheon to align with ceiling	a.	Adjust height of sprinkler and verify proper pipe support above.	EA	1	Contractor	$1,200	1-year	-------
F4	Closet C3??	1996 NFPA 13	Space (closet) is not properly protected by wet pipe fire sprinkler system. Pendant type sprinkler head provided in space without ceiling.	Remove existing sprinkler head and provide upright sprinkler head.	a.	Remove existing pendant sprinkler head and turn pipe up and install upright sprinkle head at proper elevation in room.	EA	1	Contractor	$1,200	1-year	-------
E1	Corridor C100, Stage D112, Cafeteria/Commons E101, Main Office Reception A102, Building Receiving A116, Stage Craft Drama D106, Locker Room A120, Locker Room A121, Corridor C200, Classroom in Applied Arts D202, Corridor C300, Boys Toilet C412, Staff Lounge A212, Fitness Room A201	180/PM:702.5, 1996 BOCA-1024.0; BOCA-F: 610.1	Emergency lighting is inadequate. Emergency lighting is required for means of egress illumination in rooms or spaces where more than one exit or exit access is required, and must be connected to a battery or electrical back-up system.	Install additional emergency battery light.	b.	Emergency battery light - wall mount - halogen lamps	EA	17	Contractor	$22,500	5-years	
E2	Corridor C200, Corridor C300, Corridor C400	180/PM:705.6, 180/IAC 400.310s, 1996 BOCA-1023.1	There is no illuminated exit sign in path of egress. Illuminated exit signs and directional exit signs shall be installed along the path of egress, and must be connected to a battery or electrical back-up system.	Install a new illuminated exit sign.	b.	Polycarbonate LED exit sign	EA	3	Contractor	$3,600	5-years	

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E3	Vestibule D101, Main Office Reception A102.	180.60, BOCA96-918.0, NFPA 72	There is no manual fire alarm station at the exit door. A manual fire alarm station shall be located within 5'-0" of the exit passageway in accordance with NFPA 72.	Install a new manual fire alarm pull station.	b.	Fire alarm manual pull station	EA	2	Contractor	$2,000	5-years	
E4	Classroom C104, Classroom C105, Classroom C107, Classroom C108, Classroom C109, Group Area C101, Staff Office C106, Stage/Craft Drama D106, Music 1 D104, Classroom B104, Classroom B105, Classroom B107, Classroom B108, Classroom B109, Staff Office B106, Group Area B101, Cafeteria/Commons E101, Serving/Kitchen E103, Main Office/Reception A102, Nurse A109, Locker Room A120, Locker Room A121, Family and Consumer Science D210, Classroom C204, Classroom C205, Classroom C207, Classroom C208, Classroom C209, Group Area C201, Staff Office C206, Associated Classroom C214, Associated Classroom C219, Science Lab B202, Classroom B204, Classroom B205, Classroom B207, Classroom B208, Classroom B209, Staff Office B206, Group Area B201, Fitness Room A201, OT/PT A203, Staff Lounge A212, Conference Room A210, Classroom C304, Classroom C305, Classroom C307, Classroom C308, Classroom C309, Group Area C301, Staff Office C306, Science Lab C302, Art Room, Science Lab B302, Reading/Tech Area/Stacks E300, Work Room/Periodical E304, Classroom B304, Classroom B305, Classroom B307, Classroom B308, Classroom B309, Staff Office B306, Group Area B301, Classroom C404, Classroom C405, Classroom C407, Classroom C408, Classroom C409, Group Area C401, Staff Office C406, Science Lab C402, Classroom B404, Classroom B405, Classroom B407, Classroom B408, Classroom B409, Staff Office B406, Group Area B401	180.60, BOCA96-918.0, NFPA 72	The visual fire alarm signal device coverage is inadequate. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Increase strobe candela rating by adjusting selector switch within the existing device. Additional notification appliance circuits and battery supplies will be required.	b.	Adjust existing devices plus additional notification appliance circuit battery supply panels and additional fire alarm notification circuits.	EA	83	Contractor	$51,000	5-years	
E5	Corridor C100, Music 2 D104, Auditorium D111, Applied Arts D202, Family and Consumer Science D210, Art Room Corridor, Corridor C300, Reading/Tech Area/Stacks, Corridor A300	180.60, BOCA96-918.0, NFPA 72	There is inadequate visual fire alarm signal device coverage. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Install a new fire alarm visual notification device	b.	Fire alarm visual notification device	EA	11	Contractor	$11,200	5-years	
E6	Exterior	180.60, BOCA96-1024.0, NEC96-700-17	There is inadequate exterior exit discharge lighting. Emergency lighting is required for exit discharge illumination to the public way and must be connected to a battery or electrical back-up system. Per the NEC, there must be two separate sources of illumination for redundancy.	Install a light fixture with two lamps & two drivers at each exterior exit door. Connect fixtures to a battery backup source.	b.	LED wall mount fixture with two LED boards and two LED drivers that can be controlled independently. Install a 1000W central inverter with photocell control.	EA	17	Contractor	$92,300	5-years	

Ten-Year Safety Survey Report

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(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK			2. DISTRICT CODE/NAME: D-97		3. FACILITY CODE/NAME: Brooks Middle School							
ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
E7	Science Lab C102, Science Lab B102, Science Lab C202, Science Lab B202, Science Lab B402	180.60, BOCA96-918.0, NFPA 72	The visual fire alarm signal device coverage is inadequate. The existing device is hidden behind the TV monitor. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Move the device away from the TV so the strobe is not covered. Increase strobe candela rating by adjusting selector switch within the existing device. Additional notification appliance circuits and battery supplies will be required.	b.	Adjust / Relocate existing devices plus additional notification appliance circuit battery supply panels and additional fire alarm notification circuits.	EA	5	Contractor	$4,000	5-years	
E8	Exterior	180.60, NEC1996-410-57(b)	A weatherproof receptacle cover plate is not installed or broken. All outdoor wet-location receptacles must have weatherproof in-use cover plates.	Install weatherproof in-use cover plate.	b.	Die-cast aluminum in-use coverplate	EA	3	Contractor	$400	5-years	
E9	Science Prep B303	180.60, BOCA96-918.0, NFPA 72	The smoke detector is hanging from the ceiling. Although additional fire detection is not required in a fully sprinklered building, the fire alarm device should be repaired for a fully functioning system.	Replace the smoke detector with new.	c.	Smoke detector with addressable base	EA	1	Contractor	$600	5-years	
E10	Mechanical C115	175.610, 180.60, NEC1996-250-81	The grounding electrode system is incomplete. The water meter should have a bonding jumper installed across from pipe to pipe for an equipotential grounding electrode system.	Install bonding jumper across both water meter.	b.	Bonding jumper	EA	1	Contractor	$500	5-years	
E11	Atrium	180.60, BOCA96 922.5, NEC1996-700	The smoke control system is not served by an approved standby power source. All equipment required to provide smoke control for atriums shall be equipped with a standby power source in accordance with the NEC. A tap off the utility transformer for the "emergency" service is not a recognized source of standby power per the NEC.	Install a standby generator for the smoke control system. Also includes emergency distribution equipment. Atrium exhaust fans on roof and power door operators on first floor to be re-fed from emergency standby distribution.	b.	125kW natural gas standby generator, automatic transfer switch, transformer & panelboards	lump	1	Contractor	$153,000	5-years	

10 YEAR LIFE SAFETY REPORT FOR

GWENDOLYN BROOKS MIDDLE SCHOOL

OAK PARK SCHOOL DISTRICT 97

BY: DLA ARCHITECTS, LTD
TWO PIERCE PLACE, SUITE 1300
ITASCA, IL 60143

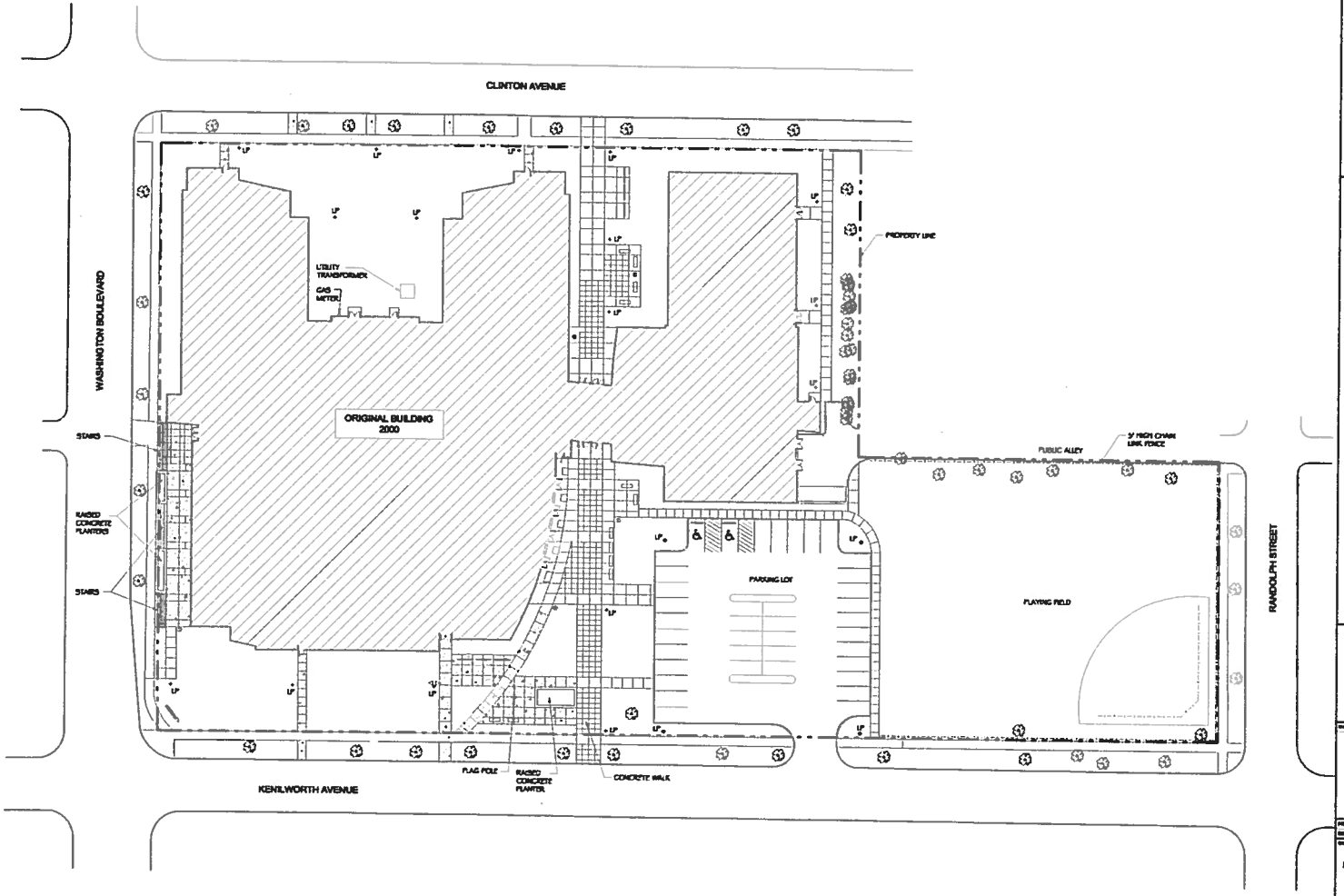
INDEX OF DRAWINGS

NORTH COOK INTERMEDIATE SERVICE CENTER

LICENSED ARCHITECT'S CERTIFICATION OF PLANS AND SPECIFICATIONS FOR NEW CONSTRUCTION

I hereby certify that these plans and specifications, dated FEBRUARY 27, 2012, for Construction of Safety Reference Plans for Gwendolyn Brooks Middle School, for Oak Park School District 97, were prepared under my supervision using the 23 ILLINOIS ADMINISTRATIVE CODE 180 and Title 66 and to the best of my knowledge, comply with the Health/ Life Safety Code as prepared by the State Board of Education.

Architect's Firm: DLA Architects, Ltd.
Architect's Name: Lora F. Nolo, Jr.
License Number: IL #001-017239
License Expires: November 30, 2012
Signature: _____



1 SITE PLAN - BROOKS MIDDLE SCHOOL

SITE PLAN LEGEND

- PROPERTY LINE
- FENCELINE
- LP + LIGHT POST
- FH FIRE HYDRANT
- ACCESSIBLE PARKING

NOTE:
ALL FENCELINES ARE CHAINLINK UNLESS NOTED OTHERWISE.

BROOKS MIDDLE SCHOOL
GROSS AREA = 175,700 SF

DLA ARCHITECTS
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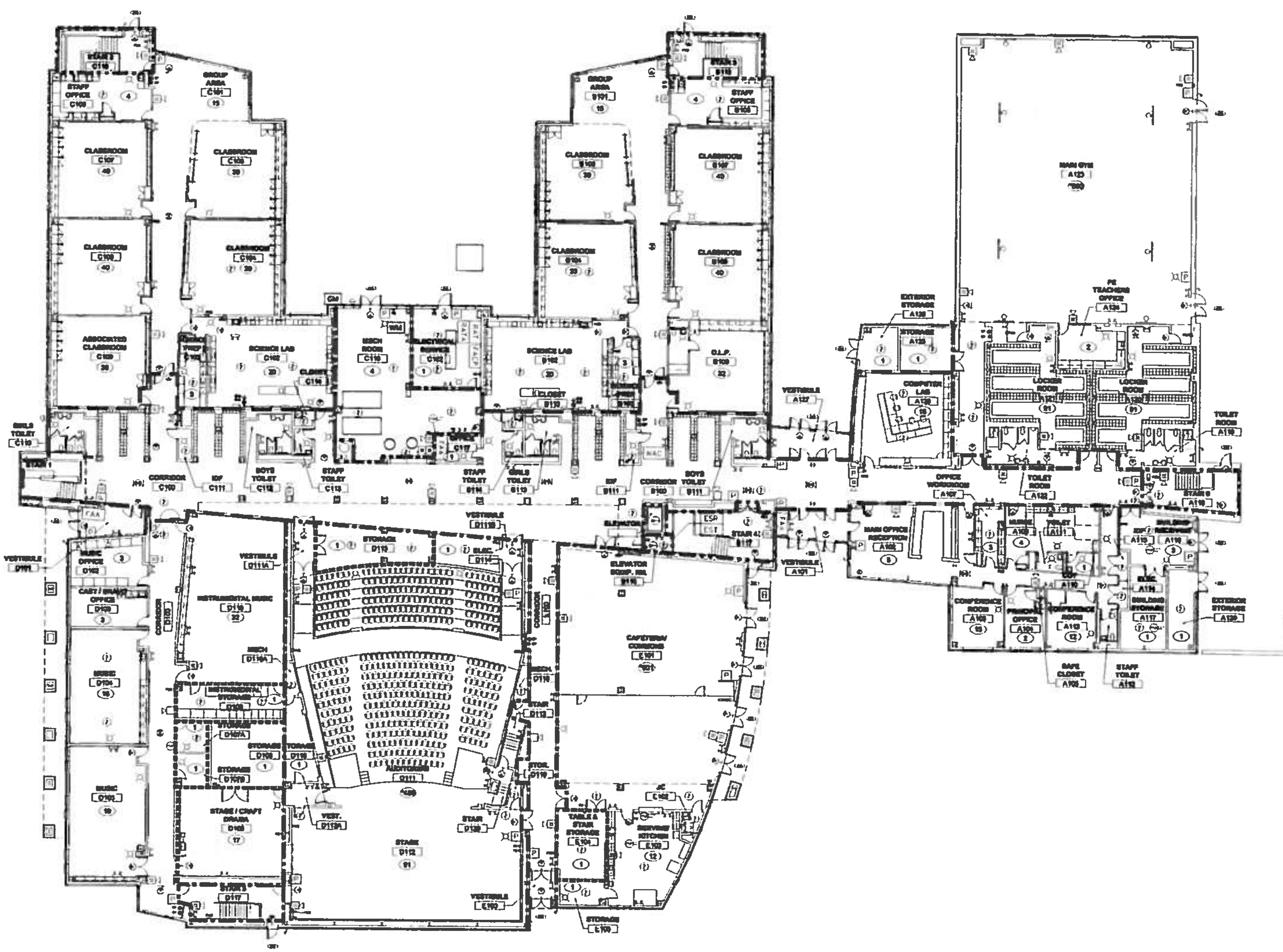
Two Pierce Place, Suite 1300 Itasca, Illinois 60143 847.742.4083

10 YEAR LIFE SAFETY REPORT FOR
GWENDOLYN BROOKS MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
325 S. KENILWORTH AVE., OAK PARK, IL 60302

FEBRUARY 28, 2012

BROOKS MIDDLE SCHOOL - SITE PLAN

AS1



1 FIRST FLOOR PLAN - BROOKS MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	845
RATED POPULATION CAPACITY:	4915

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WORK SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
- GAS METER & SHUT OFF VALVE
- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FEATURE-FIRE DEPARTMENT KEY BOX
- FACP - FIRE ALARM CONTROL PANEL
- FAA - FIRE ALARM ANNUNCIATOR PANEL
- NAC - FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FSCP - FIRE ALARM SYSTEM CONTROL PANEL
- ESR - ELEVATOR STATUS / RECALL
- EST - ELEVATOR SHUNT TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
- ADDRESSABLE INTERFACE DEVICE WITH INTEGRAL RELAY FOR HEATING, VENTILATION, AIR-CONDITIONING, EXHAUST STAIRWELL PRESSURIZATION, OR SIMILAR EQUIPMENT
- FIRE ALARM RADIO ALARM TRANSMITTER
- FIRE ALARM RADIO ALARM TRANSMITTER ANTENNA
- LIGHT FIXTURE WITH EMERGENCY BATTERY
- FE - FIRE EXTINGUISHER
- FEC - FIRE EXTINGUISHER CABINET
- AED - DEFIBRILLATOR
- DF - DRINKING FOUNTAIN
- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM [000] - ROOM TAG
- (00) - CALCULATED ROOM OCCUPANCY
- ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

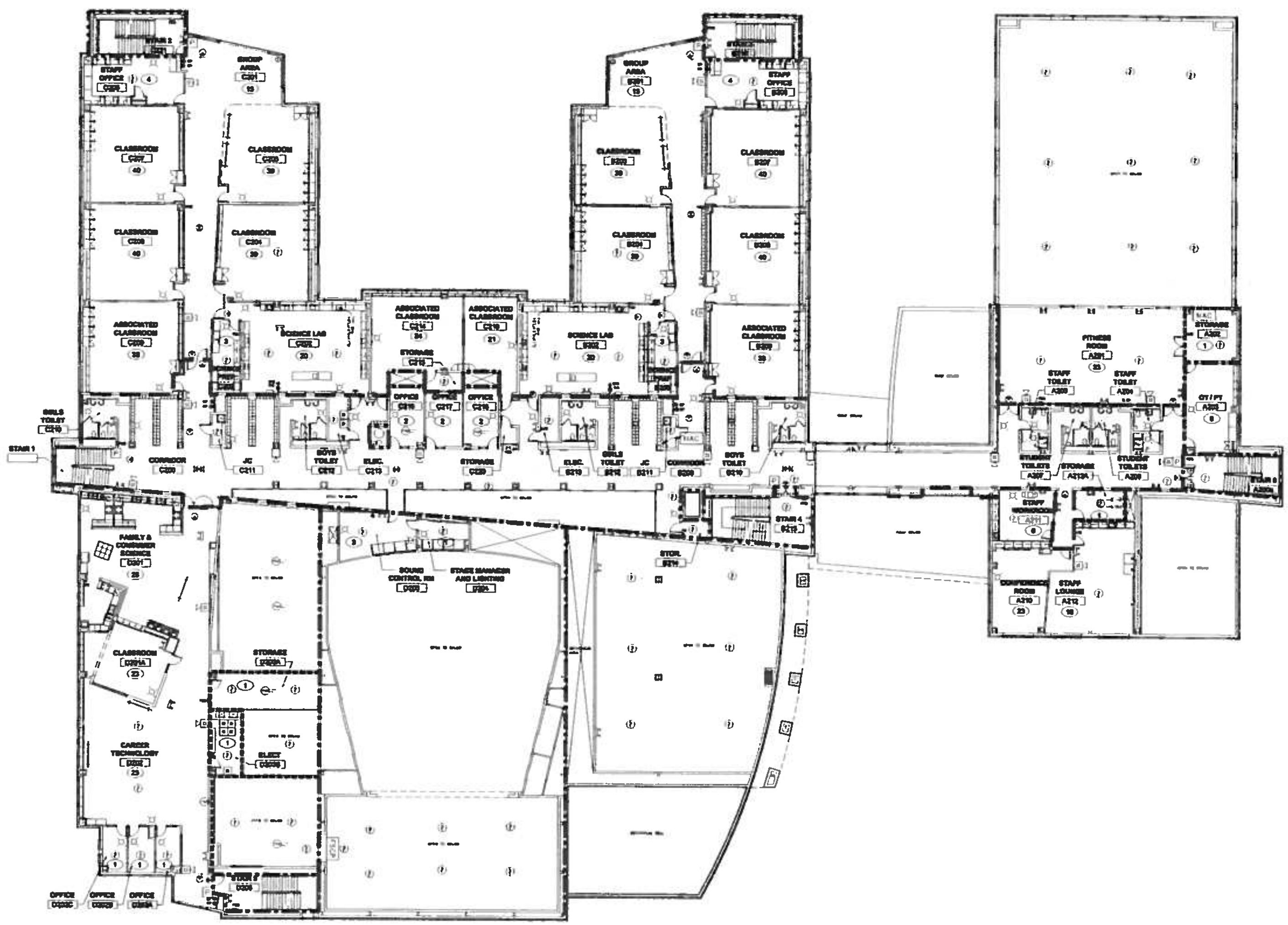
where form follows learning

DLA ARCHITECTS [illegible]

**10 YEAR LIFE SAFETY REPORT FOR
GWENDOLYN BROOKS MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
325 S. KENILWORTH AVE., OAK PARK, IL 60302**

BROOKS MIDDLE SCHOOL - FIRST FLOOR PLAN

A1



1 SECOND FLOOR PLAN - BROOKS MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL

CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	845
RATED POPULATION CAPACITY:	4915

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WORK SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
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- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
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- FIRE ALARM ANNUNCIATOR PANEL
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- AED - DEFIBRILLATOR
- DF - DRINKING FOUNTAIN
- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM 000 - ROOM TAG
- CALCULATED ROOM OCCUPANCY
- ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

where form follows learning

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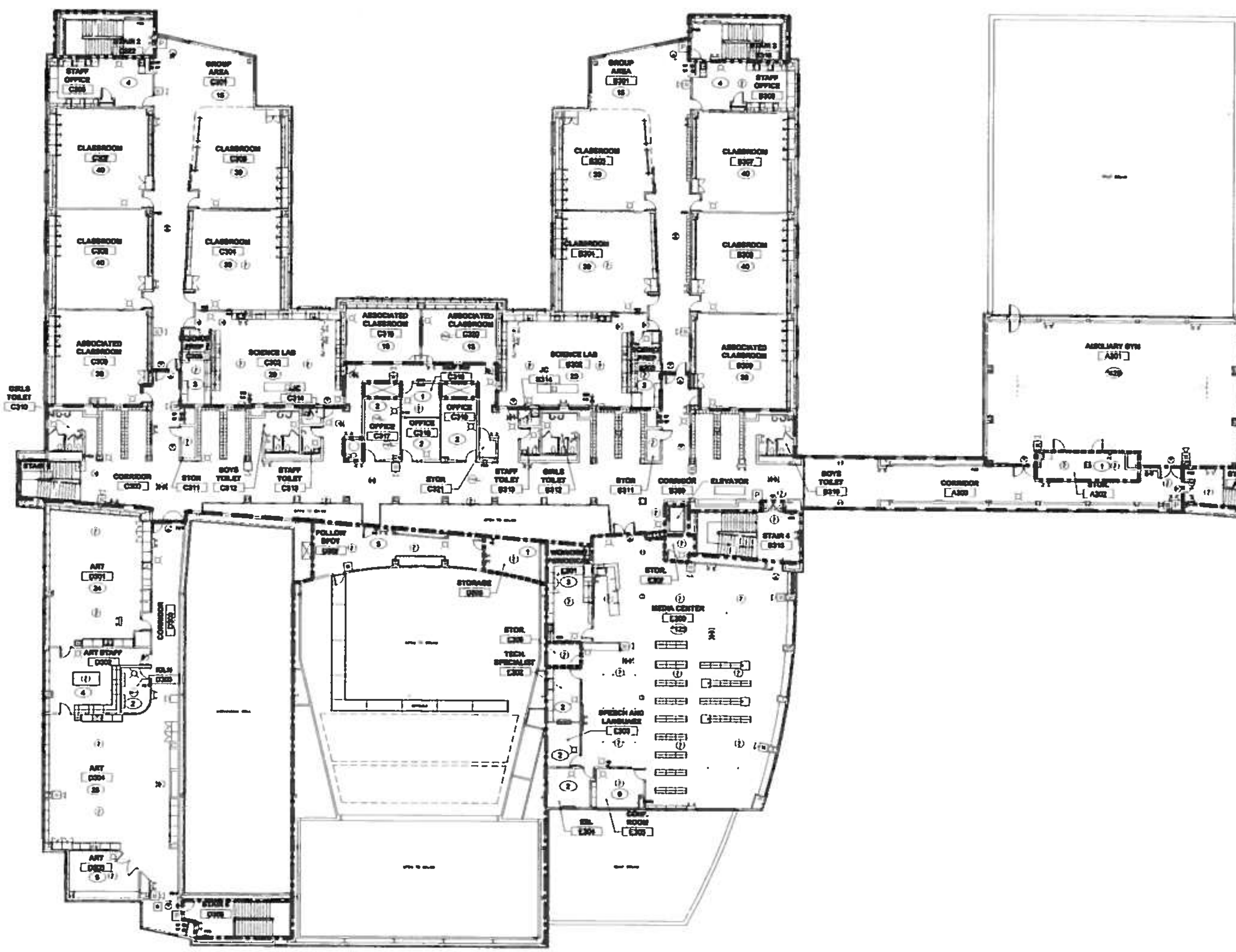
www.dla-ltd.com

10 YEAR LIFE SAFETY REPORT FOR
GWENDOLYN BROOKS MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
325 S. KENILWORTH AVE., OAK PARK, IL 60302

BROOKS MIDDLE SCHOOL - SECOND FLOOR PLAN

A2



(1) THIRD FLOOR PLAN - BROOKS MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	845
RATED POPULATION CAPACITY:	4913

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
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- SMOKE DETECTOR FOR DUCT WORK SAMPLING TUBE
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- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
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- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FEATURE-FIRE DEPARTMENT KEY BOX
- FIRE ALARM CONTROL PANEL
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- AED - DEFIBRILLATOR
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- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM 000 - ROOM TAG
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- (00) - ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
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- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

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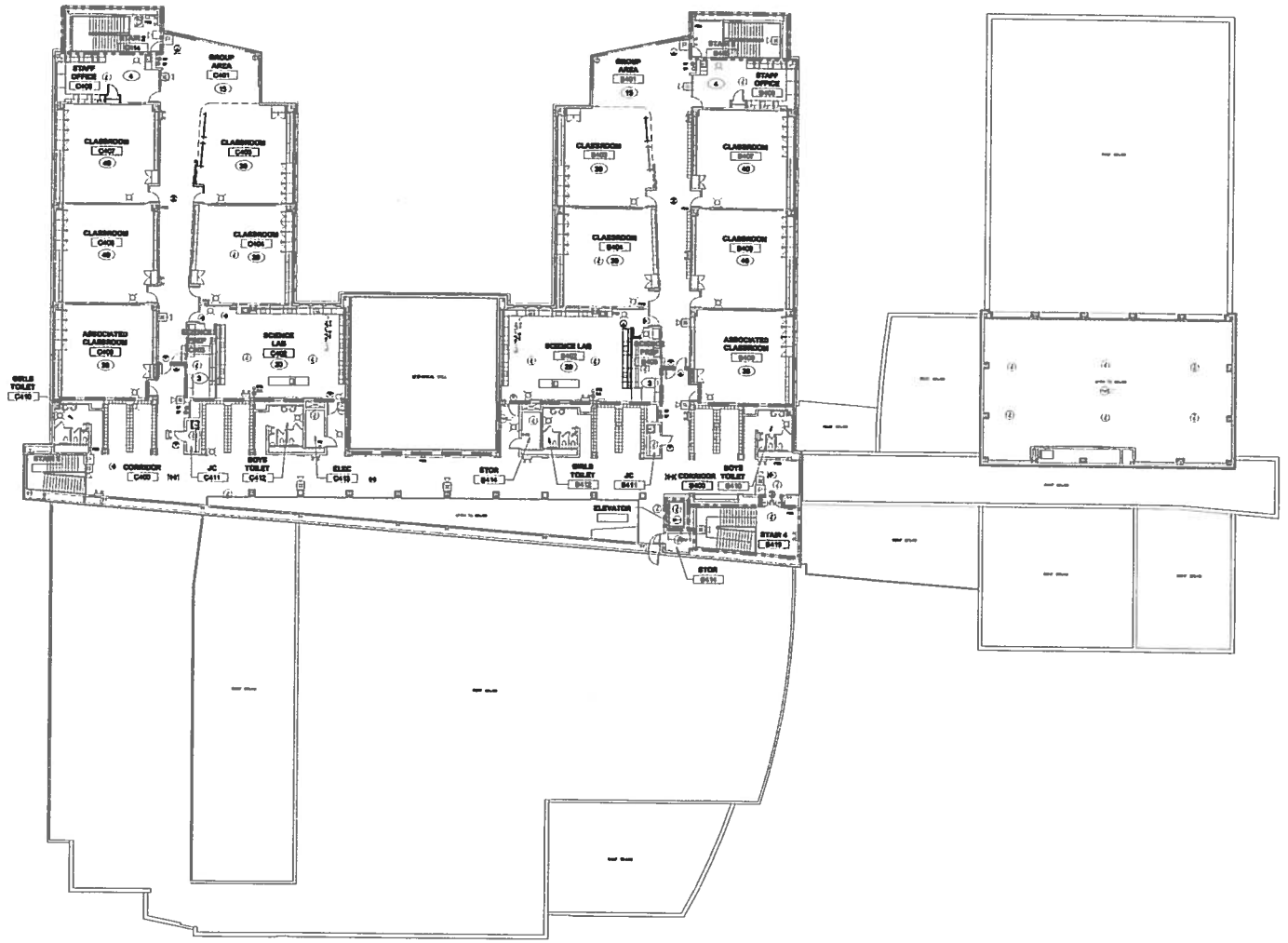
10 YEAR LIFE SAFETY REPORT FOR GWENDOLYN BROOKS MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
325 S. KENILWORTH AVE., OAK PARK, IL 60302

BROOKS MIDDLE SCHOOL - THIRD FLOOR PLAN

A3



1 FOURTH FLOOR PLAN - BROOKS MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	643
RATED POPULATION CAPACITY:	4913

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
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- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM SYSTEM CONTROL PANEL
- ELEVATOR STATUS / RECALL
- ELEVATOR SMART TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
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- FIRE EXTINGUISHER CABINET
- DEFIBRILLATOR
- DRINKING FOUNTAIN
- RECESSED DRINKING FOUNTAIN
- EMERGENCY EYE WASH & SHOWER
- ROOM TAG
- CALCULATED ROOM OCCUPANCY
- ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

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10 YEAR LIFE SAFETY REPORT FOR
GWENDOLYN BROOKS MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
325 S. KENILWORTH AVE., OAK PARK, IL 60302

PROJECT No. 0.11.003
DATE FEBRUARY 23, 2012

BROOKS MIDDLE SCHOOL - FOURTH FLOOR PLAN

A4

February 22, 2012

10 Year Life Safety Survey Report

For

Oak Park Elementary School District 97

Percy Julian Middle School

416 S. Ridgeland Ave,
Oak Park, IL 60302

Project No. R.11.013

Julian Middle School
Oak Park, Illinois

I. GENERAL

ENROLLMENT:	870 students
CONSTRUCTION:	Plan Classification: B (BOCA 96) Type II – Protected noncombustible construction
LOCAL FIRE ALARM:	The fire alarm system has a radio alarm transmitter that is monitored by Alarm Detection Services. There is an auto-dialer that contacts designated district personnel.
NEAREST FIRE STATION:	1.0 miles
CITY WATER:	The domestic water service enters the building at the Mechanical Room. An 8" combined service splits to an 8" tee for fire sprinkler service and 4" domestic water service. The 4" incoming water service has a 4" water meter, reduced pressure backflow preventer and service shut-off valve.

II. CONSTRUCTION DETAILS

YEAR BUILT:	2000
HEIGHT:	Four stories
GROUND FLOOR AREA:	69,160 square feet
EXTERIOR WALL CONST.:	Masonry- brick facing on CMU backup; insulated metal wall panels on CMU backup; EIFS on CMU wall construction; EIFS on metal stud wall construction
FLOOR CONSTRUCTION:	First floor– Concrete slab on grade Other floors –Concrete on metal pan type construction
ROOF CONSTRUCTION:	Single-ply membrane over rigid insulation on steel construction
INTERIOR WALL CONST.:	Exposed masonry; metal framed gypsum board faced partitions
INTERIOR FINISH:	Walls - painted masonry and painted gypsum board.

	Ceiling - acoustical tile and painted gypsum board
TRANSOMS AND CEILING LEVEL GLASS:	Transoms at door openings

III. EGRESS FACILITIES

GRADE EXITS:	Adequate and well arranged. Panic hardware installed and maintained where required.
CORRIDORS:	Adequate in protection, height and width with the exceptions as noted in this report. Smoke doors provided are adequate with the exceptions as noted in this report.
STAIRWAYS:	Exit stairs comply with requirements as to design and construction. Enclosures are provided where required.
WINDOWS:	Are not required as a secondary means of escape.
FIRE ESCAPES:	Not required
EXIT SIGNS:	Exit signs are located throughout the school. The signs are battery unit type. The exit signs are LED and are in decent shape. Some areas of the school do not have adequately located exit signs and additional signs are needed. The existing exit signs are indicated on the plans.
EMERGENCY LIGHTING:	The emergency lighting system consists of battery operated emergency lights. The battery lights are indicated on the drawings. The battery lights appear to be in decent shape. However, we did not test each battery unit. These should be tested yearly by the district. There are night lights (24 hour operation) located throughout the school, but these are not connected to an emergency backup source and therefore are not considered emergency lights.

IV. SPECIAL OCCUPANCIES

AUDITORIUM:	2000 Original Building – actual room occupancy is posted at 489

GYMNASIUM:	2000 Original Building – actual room occupancy is posted at 550 for assembly events and 400 for sporting events
AUXILIARY GYMNASIUM:	2000 Original Building – actual room occupancy is posted at 429
CAFETERIA / COMMONS:	2000 Original Building – actual room occupancy is posted at 601
MEDIA CENTER:	2000 Original Building – actual room occupancy is posted at 125
MECHANICAL EQUIPMENT & STORAGE ROOMS:	2000 Original Building

V. UTILITIES

HEATING PLANT: The school is heated using a hot water heating system and with rooftop units with gas fired heat.

The two central plant boilers are Cleaver Brooks, Flexible Watertube Boilers, Model FLX, Size 350, power burner, natural gas fired each with a capacity of 3,500 MBH Input, 2800 MBH I=B=R gross output.

Each boiler has a circulating pump; Bell & Gossett Series 60 in-line pump with a drawing scheduled capacity of 50 gpm at 25 foot head, each with a 1 hp, 480 V, 3-phase, 60 Hz motor.

A second pair of pumps distributes heating hot water to the school. Pumps are Bell & Gossett Model 1510-3E centrifugal base mount for 455 gpm at 90 foot head, each with a 20 hp, 480 V, 3-phase, 60 Hz motor. One pump is standby.

HEAT DISTRIBUTION: Heating hot water is distributed to ceiling radiant panels, finned tube, convectors, unit heaters, cabinet unit heaters, and fan powered VAV boxes.

VENTILATION: Classrooms are heated, air conditioned and mechanically

ventilated using packaged, variable air volume, electric cooling and gas heat rooftop units (RTU-1 and RTU-2). Each classroom has a fan powered, VAV box with hot water heat.

Auditorium is heated, air conditioned and mechanically ventilated using a packaged, constant volume, electric cooling and gas heat rooftop unit (RTU-3).

Fine Arts Classrooms are heated, air conditioned and mechanically ventilated using a packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-4). Each classroom has a fan powered, VAV box with hot water heat.

Stage is heated, air conditioned and mechanically ventilated using a packaged, constant volume, electric cooling and gas heat rooftop unit (RTU-5).

Cafeteria/Commons and Media Center each are heated, air conditioned and mechanically ventilated using a packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-6). Each space has one or more fan powered, VAV boxes with hot water heat.

School Offices (first and second floor) and second floor fitness room are heated, air conditioned and mechanically ventilated using packaged, variable air volume, electric cooling and gas heat rooftop unit (RTU-7). Each space has one or more VAV boxes or fan powered VAV boxes with hot water heat.

Auxiliary Gym is heated and mechanically ventilated using single zone, constant volume, rooftop unit with gas heat (MAU-1).

Main Gym is heated and mechanically ventilated using single zone, constant volume, rooftop unit with gas heat (MAU-2).

All rooftop air handlers are manufactured by Trane.

AIR CONDITIONING: Packaged rooftop units, as noted above, air condition the

majority of the building. The main gym and auxiliary gym are NOT air conditioned.

The Auditorium Dimmer Room and the MDF Closet are cooled via ductless split systems air conditioners with roof mounted, air cooled condensing units.

WATER HEATER: The domestic hot water source for the school is a pair of A.O. Smith, Model BTP140-540, natural gas fired, natural draft, storage tank type heaters each having a recovery capacity of 524 gph at a 100°F rise, storage capacity of 140 gallons, a natural gas input of 540 mbh, a pressure rating of 160 PSI, 120V, 1-phase controls.

Domestic hot water at the source is 140°F supplies a Lawler, Model 805 thermostatic mixing valve set to 110°F for distribution to the school.

INCINERATOR: None

GAS SERVICE: The incoming natural gas service enters the school at the first floor Mechanical Room as a 6" NPS.

DUST COLLECTOR: None

ELECTRICAL SYSTEM: There are three meters off of one electrical service. The electrical service is underground and is 277/480 volt, 3-phase, 4 wire. The maximum demand for the school in the past 24 months was 697.79 kilowatts (837 amps). Based on the demand, the main electrical service is sized adequately.

Meter #1: The main switchboard is rated for 4000 amps and has one main switch rated 4000 amps. The main switch has a ground fault protection system.

Meter #2: Fire pump controller for a 100 HP fire pump.

Meter #3: "Emergency Service" includes night lights and smoke exhaust system. This service is not an emergency service because there is no backup emergency power such as a generator or inverter system.

General lighting uses T8 lamps and energy efficient ballasts. Illumination levels appear adequate.

PLUMBING:

The plumbing systems include domestic cold, hot, and hot water recirculation, sanitary waste and vent, storm water.

The domestic water service enters the building at the Mechanical Room. An 8" combined service splits to an 8" tee for fire sprinkler service and 4" domestic water service. The 4" incoming water service has a 4" water meter, reduced pressure backflow preventer and service shut-off valve.

The Booster Pump system has a drawing scheduled capacity 210 gpm. The system is manufactured by Metropolitan Pump, Model VES-CS-88D-PH-66. It is a duplex system with two Burk pumps with 7.5 Hp motors at 480 Volts, 3-phase, 3500 rpm motor.

The school has a grease trap for the kitchen grease waste located in the kitchen slab.

VI. PRIVATE PROTECTION

FIRE ALARM SYSTEM:

The fire alarm system is an addressable system. The manufacturer of the main control panel is Notifier and is most likely model number AM-1010. Based on documentation, it appears the system was installed when the school was built (around 2000). The system should be maintainable for several more years with proper yearly testing and maintenance. The main fire alarm control panel is located in Electrical Service C103. There are three fire alarm annunciator panels: one in Vestibule D101, one in Vestibule A101 and one in the maintenance office. Smoke detectors, pull stations, audible devices and visual devices are located as indicated on the plans. Parts are no longer available for the control panel but retrofit CPU's and compatible cards are available using either a 640 or 3030. According to the school district, the system is difficult to maintain.

AUTOMATIC SPRINKLERS:

The building is completely sprinklered with a wet pipe

system via an 8" service with backflow prevention. There is no storage under main auditorium stage. Sprinkler system is supplied by the fire pump.

AUTOMATIC HEAT DETECTION: There are automatic heat detectors for the elevator shunt trip. There are heat detectors located in the kiln room. There are no other heat detectors because the building is fully sprinklered.

ATRIUM SMOKE EXHAUST SYSTEM: Four roof mounted exhaust fans, each at 32,000 cfm, exhaust the four story atrium. Fans are controlled by the fire alarm system. For make-up air, the exterior doors have door operators that open the exterior doors when the system is activated.

FIRE PUMP: A fire pump supplies the standpipes and fire sprinkler system. The pump is an Aurora Pump with a capacity of 1250 gpm at 100 psi with 125 hp, 480 V, 3-phase motor. An Aurora jockey pump maintains system pressure with 1-1/2 hp, 480 V, 3-phase motor.

STAND PIPE HOSE LINES: The school is provided with standpipes with 2-1/2" fire department hose valves. Standpipes are supplied by the fire pump.

FIRE EXTINGUISHERS: Portable fire extinguishers are located where indicated on the drawings and their locations meet the requirements of NFPA.

VII. SECURITY SYSTEM The interior door from Vestibule A101 to Main Office / Reception A102 has an electric door strike that is opened with a push button at the reception desk using line of sight for visual verification. Cameras and motion detectors and other security devices are located throughout the facility. There are security door contacts at all exterior doors.

VIII. ENERGY CONSERVATION The building automation system provides night setback control. There are no automatic lighting shutoff controls for interior lighting. The exterior light fixtures are controlled by a timeclock.

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: Julian Middle School

ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
A1	A109, A116, B100, B109, C116, D110, D111B, D117, E101, A201, A213, B200, B215, C209, C200, A301, B300, B309, C300, C309, C320, D300, B400, C402, C409	BOCA 717.5	Fire doors do not latch completely to the frame.	Adjust doors and closer or install new closers to allow for proper operation	b.	Adjust doors and closer or install new closers	EA	29	Contractor	$17,400	5-years	
A2	D108, D203B	BOCA 302.1.1	Doors in smoke partitions are to be self closing or automatic closing. The doors in these openings do not close completely.	Adjust doors and closer or install new closers to allow for proper operation	b.	Adjust doors and closer or install new closers	EA	2	Contractor	$1,200	5-years	
A3	C115, C116, D112A, D112, D308	BOCA 717.5	Fire door is maintained open with an object where door is required to be self closing or automatic self closing	Remove hold open objects to maintain door closed	a.	Remove hold open objects	EA	5	Owner	$0	1-year	
A4	D112	BOCA 709.4, BOCA 717.1	Ceiling fire shutter is blocked with storage below. The storage will not allow for the fire shutter to close completely therefore compromising the opening protective fire protection rating	Remove storage	a.	Remove storage	EA	1	Owner	$0	1-year	
A5	C100, D100, D200, B400	BOCA 717.5	Fire doors rub against floor surface or against each other preventing the door from self closing or self latching	Adjust doors and closer or install new closers to allow for proper operation. Undercut door as required for proper door operation	b.	Adjust doors and closer or install new closers	EA	4	Contractor	$4,800	5-years	
A6	A126, B102, C102, D110, E101, B202, C202, E300, B302, C302, B402, C402	BOCA 1005.3	Bottom edge of wall mounted TV protrudes into the path of egress.	Remove TV or relocate higher so that the bottom edge of the TV is a minimum of 80" above the finished floor	b.	Remove TV or relocate higher	EA	12	Owner	$0	5-years	
A7	D111A, E300	BOCA 717.0	Fire door is broken and does not function properly therefore compromising the opening protective fire protection rating	Replace door and hardware	b.	Replace door and hardware	EA	2	Contractor	$15,000	5-years	
A8	C200, C215	BOCA 711.4	Unsealed penetrations through fire partition compromises the required fire resistance rating	Fire seal penetration to maintain fire resistance rating	b.	Fire seal penetration	EA	2	Contractor	$6,000	5-years	
A9	D115	BOCA 302.1.1	Unsealed penetrations through smoke partition compromises the required separation	Seal penetration to maintain required separation	b.	Fire seal penetration	EA	1	Contractor	$3,000	5-years	
A10	A123, C214, A302	BOCA 709.4	Unsealed penetrations through fire separation assembly	Fire seal penetration to maintain fire resistance rating	b.	Fire seal penetration	EA	3	Contractor	$9,000	5-years	
A11	E101	BOCA 717.4.1	Glass in fire door is not labeled. Fire protection rated glass must be labeled	Replace with fire-rated glazing	b.	Install fire-rated glazing	EA	1	Contractor	$1,200	5-years	
A12	D106, D107A, D107B, E104, A202, A216, D202A, D202B, D202C, E305, E306, E307	BOCA 302.1.1	Doors in smoke partitions are to be self closing or automatic closing	Install door closer	b.	Install door closer	EA	15	Contractor	$9,000	5-years	

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: Julian Middle School

ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
A13	B118	BOCA 1014.11	Storage is not allowed in stairways	Remove storage	a.	Remove storage	EA	1	Owner	$0	1-year	
A14	A102, D200, A201, D300	BOCA 1006.2	Storage or other objects are impeding the path of egress.	Remove storage or objects from path of egress travel.	a.	Remove storage	EA	6	Owner	$0	1-year	
A15	D107A, D107B, D202A, D202B, D202C, E305	BOCA 302.1.1	Rooms are used as storage and therefore require smoke partitions that extend to the underside of the deck above. Penetrations in these walls are required to be sealed to maintain smoke separation.	Extend walls to the underside of the deck above and seal penetrations with firesafing. Provide UL rated sealant at all penetrations through extended wall.	b.	Extend walls to the underside of the deck above and seal penetrations	EA	6	Contractor	$18,000	5-years	
A16	D203B	BOCA 302.1.1	Top of wall does not have the required firesafing and compromises the required separation	Fireseal top of wall	b.	Fireseal top of wall	EA	1	Contractor	$3,000	5-years	
A17	D111	BOCA 412.3.1, BOCA 1012.0	A stage extension was added to the original stage. That stage extension is constructed with combustible materials not allowed for the type of construction of the building. The stage extension impedes into the aisle accessway that leads to Stair D113. In addition, the stage skirt used to cover the framing of the stage does not have a label indicating that the drape material is fire-treated. The skirt also extends into the aisle creating a tripping hazard and restricting the aisle accessway. A set of stairs without handrails lead directly from the aisle to the stage and block the aisle accessway width as well.	Remove stage extension or re-build stage using material allowed for the type of construction of the building and maintaining required aisle accessway width	a.	Remove stage extension	EA	1	Contractor	$4,800	5-years	
A18	D120	BOCA 1014.6.1	Rubber nosing on stair tread is loose and does not securely keep in place the carpet finish on the tread and riser and therefore not maintaining the required profile and creating a tripping hazard	Install nosing to secure carpet tread and riser finish	a.	Secure nosing and carpet on tread and riser	EA	1	Contractor	$600	1-year	
M1	Roof	1996 IMC 403	Outside air may be contaminated because screen is missing on rooftop unit RTU-5 (Stage).	Re-install outside air inlet screen on rooftop air handling unit (RTU-5).	a.	Owner to re-install inlet screen on rooftop unit.	EA	1	Owner	$0	1-year	-------

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: Julian Middle School

ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
F1	Site	1996 NFPA 13	Fire department connection is missing cover which allows for damage.	Install cover on fire department connection.	a.	Install cover on fire department connection.	EA	1	Contractor	$1,200	1-year	--------
F2	IDF A115, Elec A114 and Closet A106	1996 NFPA 13	Space (closet) is not protected by wet pipe fire sprinkler system. To be a "fully sprinklered" building, closets must be protected.	Provide new fire sprinkler head in closet.	a.	Provide fire sprinkler head in closet piped to existing wet pipe fire sprinkler system.	EA	3	Contractor	$3,600	1-year	--------
F3	Associated Classrooms C314 and C319	1996 NFPA 13	Spaces are not properly protected by wet pipe fire sprinkler system.	Two of the sprinkler heads in C314 are too close (within 6") to the wall and C319 does not have enough sprinkler heads	a.	Relocate two sprinkler heads in Classroom C314. Provide two additional sprinkler heads in Classroom C319.	EA	1	Contractor	$3,600	1-year	--------
E1	Corridor C200, Conference Room A210, Corridor A200, Staff Workroom A211, Fitness Room A201, Classroom D201A, Building Receiving A116, Locker Room A120, Locker Room A121, Corridor A100, Cafeteria/Commons E101, Corridor C100	180/PM:702.5, 1996 BOCA-1024.0; BOCA-F: 610.1	Emergency lighting is inadequate. Emergency lighting is required for means of egress illumination in rooms or spaces where more than one exit or exit access is required, and must be connected to a battery or electrical back-up system.	Install additional emergency battery light.	b.	Emergency battery light wall mount - halogen lamps	EA	16	Contractor	$27,000	5-years	
E2	Corridor C400, Corridor C200, Building Receiving A116	180/PM:705.6, 180/IAC 400.310s, 1996 BOCA-1023.1	There is no illuminated exit sign in path of egress. Illuminated exit signs and directional exit signs shall be installed along the path of egress, and must be connected to a battery or electrical back-up system.	Install a new illuminated exit sign.	b.	Polycarbonate LED exit sign	EA	4	Contractor	$4,800	5-years	
E3	Main Gym A123, Corridor B100	180/PM:702.5, 1996 BOCA-1024.0	The illuminated exit sign has directional arrows indicating an incorrect egress direction. Emergency lighting is required for means of egress illumination in rooms or spaces where more than one exit or exit access is required, and must be connected to a battery or electrical back-up system.	Replace exit sign with new illuminated exit sign with directional arrows showing the path of egress.	b.	Polycarbonate LED exit sign	EA	2	Contractor	$900	5-years	
E4	Corridor B300, Corridor C300	180.60, BOCA96-918.0, NFPA 72	Smoke detectors are missing. A smoke detector within 5'-0" of doors is required where door hold open devices are installed.	Install smoke detector.	b.	Smoke detector with addressable base	EA	2	Contractor	$2,400	5-years	
E5	Corridor A100, Vestibule D101	180.60, BOCA96-918.0, NFPA 72	There is no manual fire alarm station at the exit door. A manual fire alarm station shall be located within 5'-0" of the exit passageway in accordance with NFPA 72.	Install a new manual fire alarm pull station.	b.	Fire alarm manual pull station	EA	2	Contractor	$1,900	5-years	

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: **Julian Middle School**

ITEM I.D.	LOCATION(S) (ROOM NO.)	RULE VIOLATED	DESCRIPTION OF THE VIOLATION	RECOMMENDATION TO CORRECT VIOLATION	PRIORITY CODE	SPECIFICATION(S)	UNITS OF MEASURE	QTY	LABOR CODE	ESTIMATED COST	ESTIMATED COMPLETION DATE	FUNDING TYPE
E6	Staff Office B406, Classroom B407, Classroom B408, Classroom B409, Classroom B404, Classroom B405, Group Area B401, Science Lab B402, Science Lab C402, Classroom C404, Classroom C405, Classroom C407, Classroom C408, Classroom C409, Group Area C401, Staff Office C406, Auxiliary Gym A301, Staff Office B306, Group Area B301, Associated Classroom B309, Classroom B308, Classroom B307, Classroom B305, Classroom B304, Reading Stacks E300, Work Room/Periodical E301, Science Lab B302, Art D304, Science LAb C302, lassroom C304, Classroom C305, Classroom C307, Classroom C308, Associated Classroom C309, Staff Office C306, Group Area C301, Staff Office B206, Classroom B207, Classroom B208, Associated Classroom B209, Group Area B201, Classroom B205, Classroom B204, Science Lab B202, Associated Classroom C219, Associated Classroom C214, Science Lab C202, Family and Consumer Science D201, Group Area C201, Staff Office C206, Classroom C204, Classroom C205, Classroom C207, Classroom C208, Associated Classroom C209, Multicultural Center A213, OT/PT A203, Fitness Room A201, Locker Room A Locker Room A121, Corridor A100, Nurse A109, Group Area B101, Staff Office B106, Classroom B105,Classroom B104, Classroom B107, Classroom B108, D.L.P. B109, Science Lab B102, Auditorium D111, Stage/Craft/Drama D106, Music 1 D104, Group Area C101, Staff Office C106, Classroom C104, Classroom C105, Classroom C107, Classroom C108, Associated Classroom C109	180.60, BOCA96-918.0, NFPA 72	The visual fire alarm signal device coverage is inadequate. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Increase strobe candela rating by adjusting selector switch within the existing device. Additional notification appliance circuits and battery supplies will be required.	b.	Adjust existing devices plus additional notification appliance circuit battery supply panels and additional fire alarm notification circuits.	EA	88	Contractor	$54,000	5-years	
E7	Reading Stacks E300, Art D301, Career Technology D202, Family and Consumer Science D201, Auditorium D111, Corridor C100, Music 2 D105	180.60, BOCA96-918.0, NFPA 72	There is inadequate visual fire alarm signal device coverage. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Install a new fire alarm visual notification device	b.	Fire alarm visual notification device	EA	8	Contractor	$8,100	5-years	
E8	Main Gym A123, Stairs A118, Exterior Storage A129, Exterior Storage A128, Cafeteria/Commons E101, Building Exterior	180.60, BOCA96-1024.0, NEC96-700-17	There is inadequate exterior exit discharge lighting. Emergency lighting is required for exit discharge illumination to the public way and must be connected to a battery or electrical back-up system. Per the NEC, there must be two separate sources of illumination for redundancy.	Install a light fixture with two lamps & two drivers at each exterior exit door. Connect fixtures to a battery backup source.	b.	LED wall mount fixture with two LED boards and two LED drivers that can be controlled independently. Install a 1000W central inverter with photocell control.	EA	17	Contractor	$92,300	5-years	
E9	Science Lab C102	180.60, BOCA96-918.0, NFPA 72	The visual fire alarm signal device coverage is inadequate. The existing device is hidden behind the TV monitor. Fire alarm visual notification devices shall be located in public and common areas of the building. Fire alarm visual notification devices shall be spaced in accordance with NFPA 72 based on the strobe candela rating.	Move the device away from the TV so the strobe is not covered. Increase strobe candela rating by adjusting selector switch within the existing device. Additional notification appliance circuits and battery supplies will be required.	b.	Adjust / relocate existing devices plus additional notification appliance circuit battery supply panels and additional fire alarm notification circuits.	EA	1	Contractor	$800	5-years	

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

(23 IL Adm. Code 180, 180.320)

1. COUNTY CODE: COOK | 2. DISTRICT CODE/NAME: D-97 | 3. FACILITY CODE/NAME: **Julian Middle School**

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E10	Corridor A100	180.60, NEC1996-410-57(b)	A weatherproof receptacle cover plate is not installed or broken. All outdoor wet-location receptacles must have weatherproof in-use cover plates.	Install weatherproof in-use cover plate.	b.	Die-cast aluminum in-use coverplate	EA	1	Contractor	$100	5-years	
E11	Main Mechanical Room C115	175.610, 180.60, NEC1996-250-81	The grounding electrode system is incomplete. The water meter should have a bonding jumper installed across from pipe to pipe for an equipotential grounding electrode system.	Install bonding jumper across both water meter.	b.	Bonding jumper	EA	1	Contractor	$500	5-years	
E12	Atrium	180.60, BOCA96 922.5; NEC1996-700	The smoke control system is not served by an approved standby power source. All equipment required to provide smoke control for atriums shall be equipped with a standby power source in accordance with the NEC. A tap off the utility transformer for the "emergency" service is not a recognized source of standby power per the NEC.	Install a standby generator for the smoke control system. Also includes emergency distribution equipment. Atrium exhaust fans on roof and power door operators on first floor to be re-fed from emergency standby distribution.	b.	125kW natural gas standby generator, automatic transfer switch, transformer & panelboards	lump	1	Contractor	$153,000	5-years	
E13	Janitors Closet B411, Science Office C406, Office Workroom A107	180.60, NEC1996-210-8	A receptacle within 6 feet of sink does not have GFCI protection. Although this location was not a code requirement in the 1996 NEC, it is a code requirement in the current NEC.	It is our recommendation that the district replace the receptacle with a GFCI type.	c.	GFCI 20A duplex receptacle	EA	3	Contractor	$350	5-years	
E14	Vestibule	180.60, NEC1996-110-12	There is exposed wiring at the electric door openers. All exposed wiring shall be covered to afford protection substantially equivalent to the wall of the equipment.	Install surface raceway to cover exposed wiring.	b.	Metallic surface raceway.	EA	1	Contractor	$300	5-years	
E15	Group Area C401	180/PM:705.6. 180/IAC 400.310s, 1996 BOCA-1023.1	The existing exit sign is broken / damaged. Illuminated exit signs and directional exit signs shall be installed along the path of egress, and must be connected to a battery or electrical back-up system.	Replace with a new illuminated exit sign.	b.	Polycarbonate LED exit sign	EA	1	Contractor	$450	5-years	

Ten-Year Safety Survey Report

VIOLATION AND RECOMMENDATION SCHEDULE

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E16	Storage B414	180.60, BOCA96-918.0, NFPA 72	The smoke detector is installed too close to the solid beam. Although a smoke detector is not required in this location because the building is fully sprinklered, the smoke detector should still be installed in accordance with NFPA 72. Due to the nature of smoke, the detector should be at least 4" from the solid beam in order to function properly.	Move existing smoke detector over so it is at least 4" from the beam or any side walls.	b.	Move existing detector	EA	1	Contractor	$300	5-years	

10 YEAR LIFE SAFETY REPORT FOR
PERCY JULIAN MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97

BY: DLA ARCHITECTS, LTD
TWO PIERCE PLACE, SUITE 1300
ITASCA, IL 60143

INDEX OF DRAWINGS

ARCHITECTURAL DLA ARCHITECTS, LTD.
PH 847.742.4083 FX 847.742.8738

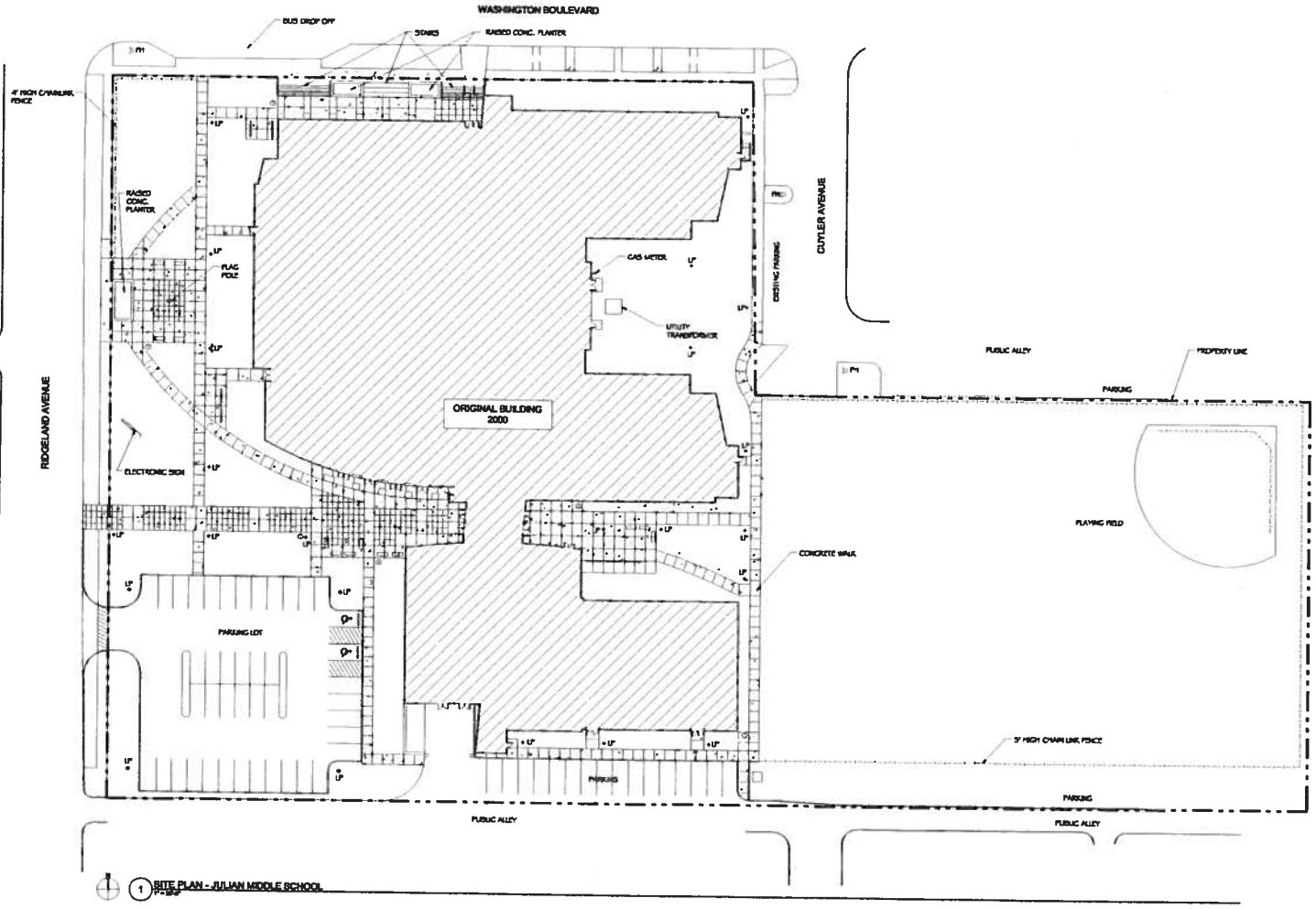
NORTH COOK INTERMEDIATE SERVICE CENTER

LICENSED ARCHITECT'S CERTIFICATION OF PLANS AND SPECIFICATIONS FOR NEW CONSTRUCTION

I hereby certify that these plans and specifications, dated FEBRUARY 22, 2012, for Construction of Safety Reference Plans for Percy Julian Middle School, for Oak Park School District 97, were prepared under my supervision using the 23 ILLINOIS ADMINISTRATIVE CODE 180 and Sec. 35 and to the best of my knowledge, comply with the Fatality Life Safety Code as prepared by the State Board of Education.

Architect's Firm	DLA Architects, Ltd.
Architect's Name	Louis F. Hoke, Jr.
License Number	IL 001-017239
License Expires	November 30, 2012
Signature	

JULIAN MIDDLE SCHOOL
GROSS AREA = 175,700 SF



1 SITE PLAN - JULIAN MIDDLE SCHOOL

SITE PLAN LEGEND

- PROPERTY LINE
- FENCELINE
- LP - LIGHT POST
- FH - FIRE HYDRANT
- ACCESSIBLE PARKING

NOTE:
ALL FENCELINES ARE CHAINLINK UNLESS NOTED OTHERWISE.

DLA ARCHITECTS
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Two Pierce Place, Suite 1300 Itasca, Illinois 60143 847.742.4083
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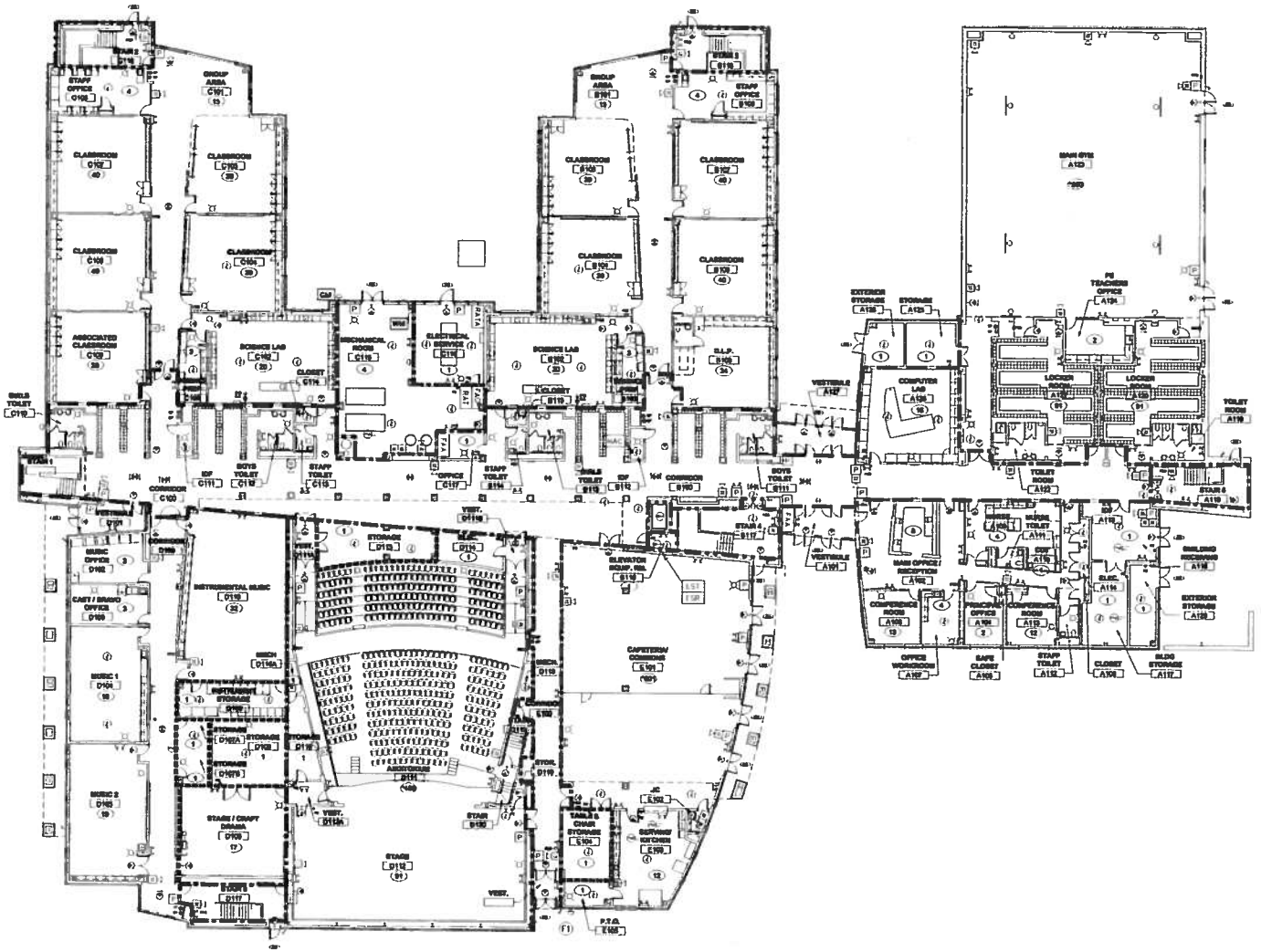
10 YEAR LIFE SAFETY REPORT FOR
PERCY JULIAN MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
416 S. RIDGELAND AVE., OAK PARK, IL 60302

FEBRUARY 22, 2012

JULIAN MIDDLE SCHOOL - SITE PLAN

AS1



1 FIRST FLOOR PLAN - JULIAN MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	SBCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	870
RATED POPULATION CAPACITY:	4922

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT LAMP SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WAIR SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
- GAS METER & SHUT OFF VALVE
- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FEATURE-FIRE DEPARTMENT KEY BOX
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM SYSTEM CONTROL PANEL
- ELEVATOR STATUS / RECALL
- ELEVATOR SHUNT TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
- ADDRESSABLE INTERFACE DEVICE WITH INTEGRAL RELAY FOR HEATING, VENTILATION, AIR-CONDITIONING, EXHAUST STAIRWELL PRESSURIZATION, OR SIMILAR EQUIPMENT
- FIRE ALARM RADIO ALARM TRANSMITTER
- FIRE ALARM RADIO ALARM TRANSMITTER ANTENNA
- LIGHT FIXTURE WITH EMERGENCY BATTERY
- FE - FIRE EXTINGUISHER
- FEC - FIRE EXTINGUISHER CABINET
- AED - DEFIBRILLATOR
- DF - DRINKING FOUNTAIN
- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM TAG
- CALCULATED ROOM OCCUPANCY
- ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

DLA ARCHITECTS
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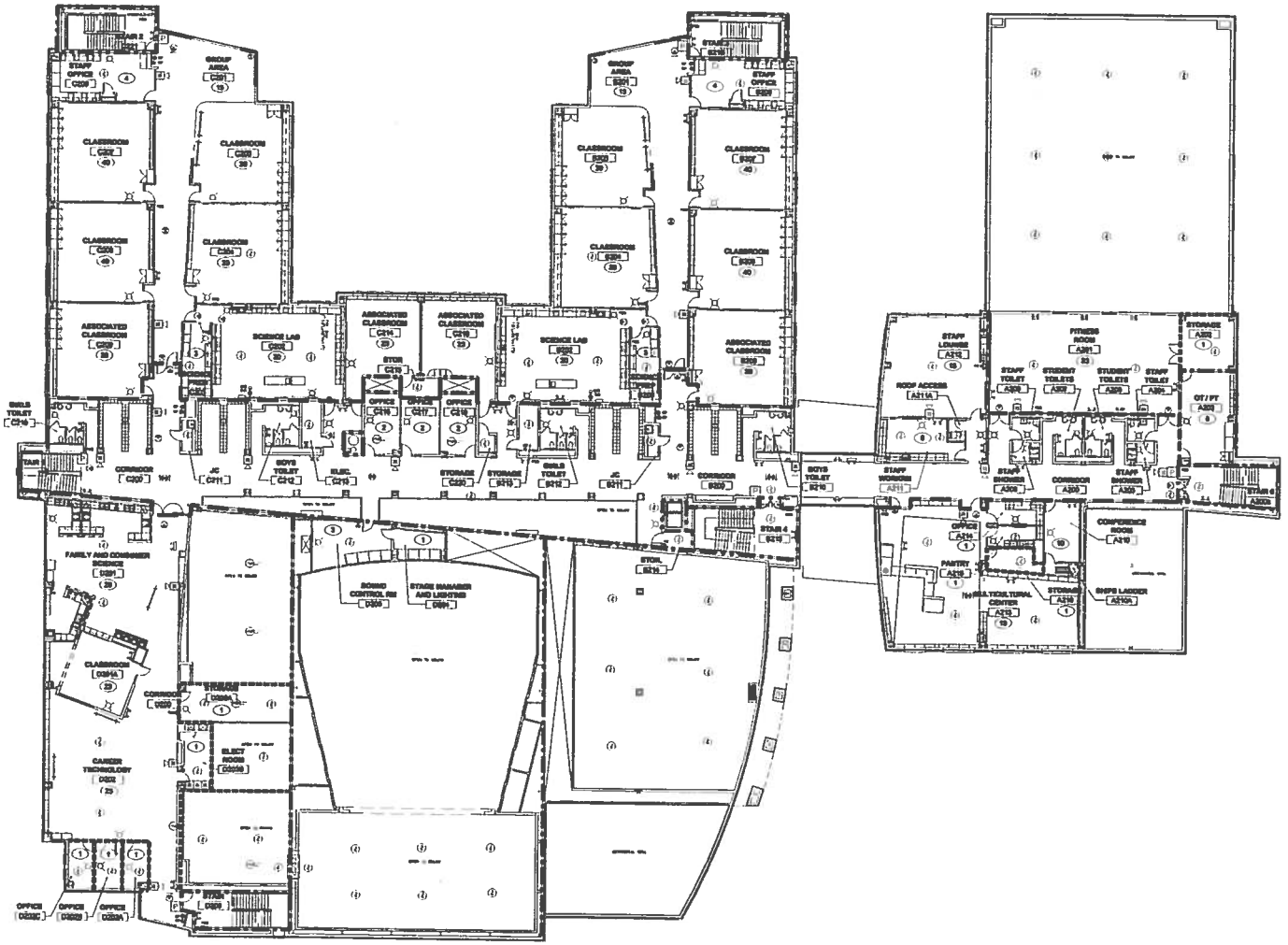
10 YEAR LIFE SAFETY REPORT FOR
PERCY JULIAN MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
416 S. RIDGELAND AVE., OAK PARK, IL 60302

PROJECT NO. 11.013
DATE FEBRUARY 22, 2013

JULIAN MIDDLE SCHOOL - FIRST FLOOR PLAN

SHEET NO.
A1



FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT PERCUPANT CAPACITY:	870
RATED POPULATION CAPACITY:	4922

SAFETY REFERENCE LEGEND

- P - MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP,SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WARE SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
- GAS METER & SHUT OFF VALVE
- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FOR FIRE DEPARTMENT KEY BOX
- FACP - FIRE ALARM CONTROL PANEL
- FAA - FIRE ALARM ANNUNCIATOR PANEL
- FNAC - FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FSCP - FIRE ALARM SYSTEM CONTROL PANEL
- ELS - ELEVATOR STATUS / RECALL
- ELST - ELEVATOR SHUNT TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
- HVAC - ADDRESSABLE INTERFACE DEVICE WITH INTEGRAL RELAY FOR HEATING, VENTILATION, AIR-CONDITIONING, DEHUMIDIFICATION, DEHUMIDIFICATION, OR SIMILAR EQUIPMENT
- RAT - FIRE ALARM RADIO ALARM TRANSMITTER
- RATA - FIRE ALARM RADIO ALARM TRANSMITTER ANTENNA
- LIGHT FIXTURE WITH EMERGENCY BATTERY
- FE - FIRE EXTINGUISHER
- FEC - FIRE EXTINGUISHER CABINET
- AED - DEFIBRILLATOR
- DF - DRINKING FOUNTAIN
- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM TAG
- (00) - CALCULATED ROOM OCCUPANCY
- (00) - ACTUAL ROOM OCCUPANCY
- (000) - EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

1 SECOND FLOOR PLAN - JULIAN MIDDLE SCHOOL
1/16" = 1'-0"

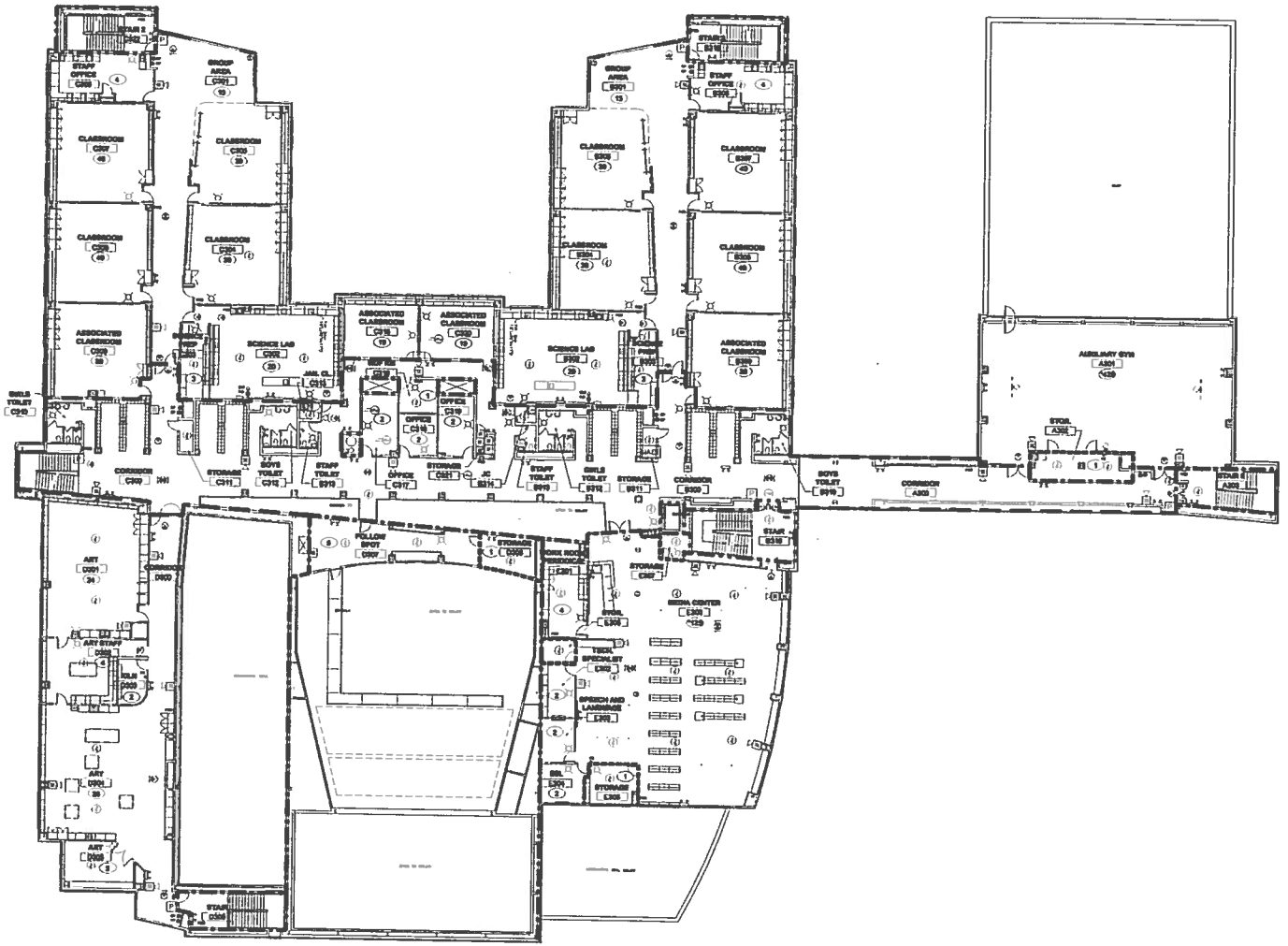
DLA Architects
where form follows learning
Two Pierce Place, Suite 1300 Itasca, Illinois 60143 847.742.4843
www.dla-ltd.com

10 YEAR LIFE SAFETY REPORT FOR
PERCY JULIAN MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
416 S. RIDGELAND AVE., OAK PARK, IL 60302

DATE: FEBRUARY 22, 2013

JULIAN MIDDLE SCHOOL - SECOND FLOOR PLAN

A2



1 THIRD FLOOR PLAN - JULIAN MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	870
RATED POPULATION CAPACITY:	4922

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN ELECTRIC HORN
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP_SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WITH SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
- GAS METER & SHUT OFF VALVE
- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FEATURE-FIRE DEPARTMENT KEY BOX
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM SYSTEM CONTROL PANEL
- ELEVATOR STARTER / RECALL
- ELEVATOR SHUNT TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
- ADDRESSABLE INTERFACE DEVICE WITH INTEGRAL RELAY FOR HEATING, VENTILATION, AIR-CONDITIONING, DUALIST STAIRWELL PRESSURIZATION, OR SIMILAR EQUIPMENT
- FIRE ALARM RADIO ALARM TRANSMITTER
- FIRE ALARM RADIO ALARM TRANSMITTER ANTENNA
- LIGHT FIXTURE WITH EMERGENCY BATTERY
- FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET
- DEFIBRILLATOR
- DRINKING FOUNTAIN
- RECESSED DRINKING FOUNTAIN
- EMERGENCY EYE WASH & SHOWER
- ROOM TAG
- CALCULATED ROOM OCCUPANCY
- ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

DLA ARCHITECTS
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10 YEAR LIFE SAFETY REPORT FOR
PERCY JULIAN MIDDLE SCHOOL
OAK PARK SCHOOL DISTRICT 97
416 S. RIDGELAND AVE., OAK PARK, IL 60302

DATE: FEBRUARY 22, 2013

JULIAN MIDDLE SCHOOL - THIRD FLOOR PLAN

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1 FOURTH FLOOR PLAN - JULIAN MIDDLE SCHOOL
1/16" = 1'-0"

FIRE AREA - 2000 ORIGINAL	
CODE:	BOCA 96
CONSTRUCTION:	TYPE 2B
HEIGHT:	4 STORY
PLAN CLASSIFICATION:	GROUP E
PROTECTION CLASSIFICATION:	SPRINKLED
ROOF CONSTRUCTION:	SINGLE PLY
STUDENT ENROLLMENT CAPACITY:	870
RATED POPULATION CAPACITY:	4922

SAFETY REFERENCE LEGEND

- MANUAL STATION - PULL STATION
- SPEAKER/HORN (ELECTRIC HORN)
- HORN WITH LIGHT AS SEPARATE ASSEMBLY
- HORN WITH LIGHT AS ONE ASSEMBLY
- LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
- HEAT DETECTOR (THERMAL DETECTOR)
- SMOKE DETECTOR
- SMOKE DETECTOR FOR DUCT WITH SAMPLING TUBE
- STAND ALONE BATTERY POWERED SMOKE DETECTOR WITH AUDIBLE ALARM
- EXIT LIGHTING
- EXIT LIGHT W/ EMERGENCY BATTERY LIGHT
- EMERGENCY BATTERY LIGHT
- REMOTE BATTERY LIGHT HEAD
- BELL - VIBRATING
- GAS METER & SHUT OFF VALVE
- WATER METER & SHUT OFF VALVE
- FIRE HYDRANT
- DOOR HOLD OPEN DEVICE
- FIRE ALARM REMOTE TEST SWITCH
- ACCESS FEATURE-FIRE DEPARTMENT KEY BOX
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- FIRE ALARM SYSTEM CONTROL PANEL
- ELEVATOR STATUS / RECALL
- ELEVATOR SHUNT TRIP CONTROL AND SUPERVISED ELEVATOR POWER CIRCUIT CONTROL MODULE
- ADDRESSABLE INTERFACE DEVICE WITH INTEGRAL RELAY FOR HEATING, VENTILATION, AIR-CONDITIONING, EXHAUST STAIRWELL PRESSURIZATION, OR SIMILAR EQUIPMENT
- FIRE ALARM RADIO ALARM TRANSMITTER
- FIRE ALARM RADIO ALARM TRANSMITTER ANTENNA
- LIGHT FIXTURE WITH EMERGENCY BATTERY
- FE - FIRE EXTINGUISHER
- FEC - FIRE EXTINGUISHER CABINET
- AED - DEFIBRILLATOR
- DF - DRINKING FOUNTAIN
- R. DF - RECESSED DRINKING FOUNTAIN
- E.W. / E.S. - EMERGENCY EYE WASH & SHOWER
- ROOM 000 - ROOM TAG
- 00 - CALCULATED ROOM OCCUPANCY
- *00 - ACTUAL ROOM OCCUPANCY
- EXTERIOR EXIT DOOR MAX. CAPACITY
- 2 HOUR RATED FIRE WALL
- 1 HOUR RATED PARTITION
- 1 HOUR RATED ATRIUM
- SMOKE PARTITION

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JULIAN MIDDLE SCHOOL - FOURTH FLOOR PLAN

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