Health Life Safety Survey and Master Facilities Plan
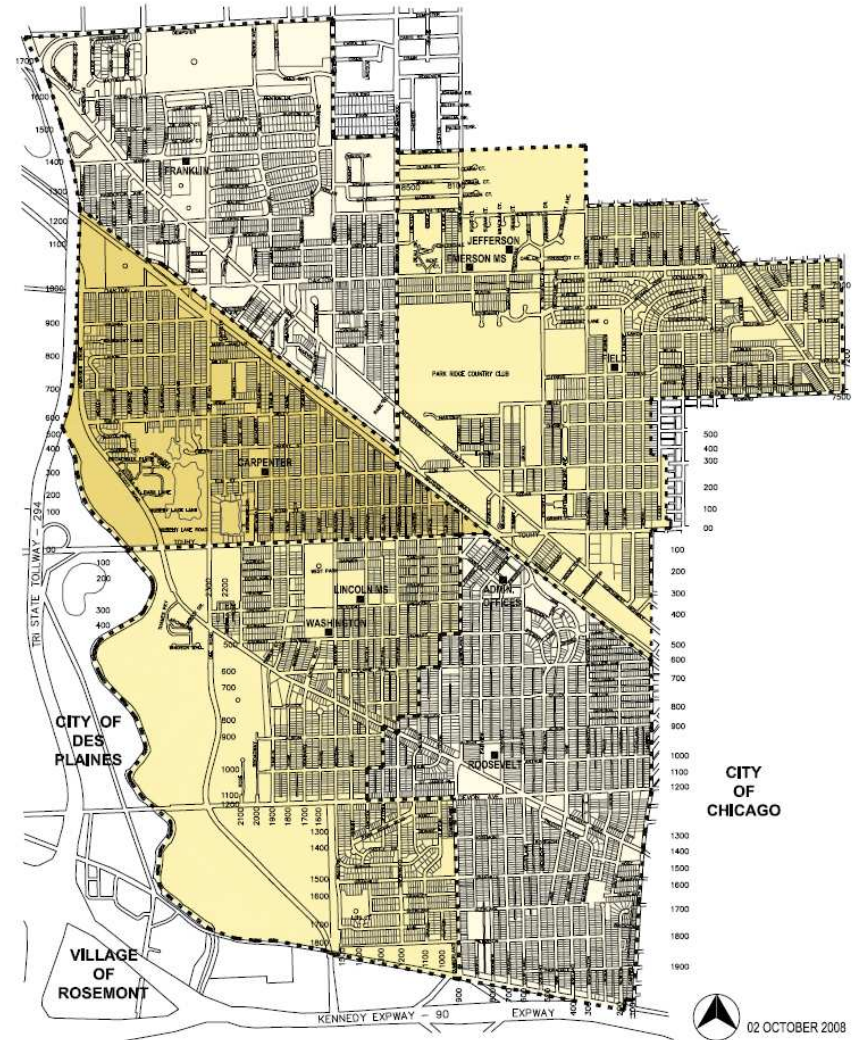
Community Presentation

Board Meeting

April 27, 2015

FGM ARCHITECTS

Agenda

- Introduction
- Enrollment
- Capacity and Utilization
- Educational Planning
- Program Areas

INTRODUCTION

Master Facilities Plan

– Plan Components

- Health Life Safety Survey
- Building Assessment
- **Educational Planning**

– Cost Areas

- Operation Costs
- Maintenance and Repair Costs
- **Capital Improvements**

Capital Improvement Costs

Building Improvements that:

— Extend the useful life of a building or building systems

— **Accommodate changes in building or program capacity**

— **Make modifications to enhance or expand programs**

Building Improvement Drivers

– Enrollment changes

- Growth

- Decline

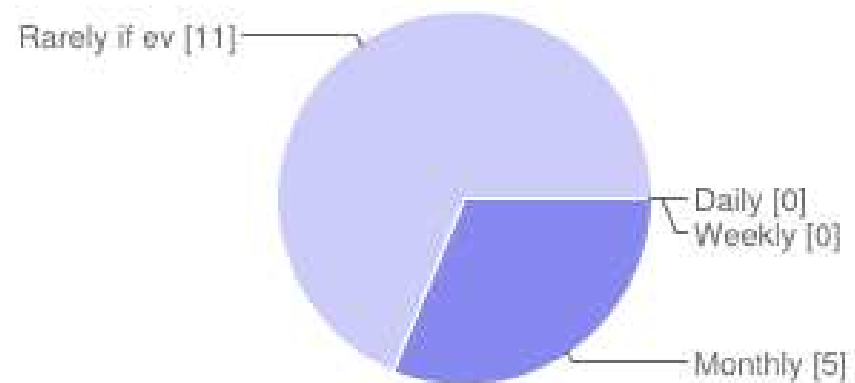- Sub-Population Changes

Building Improvement Drivers

– Program Changes

- Addition / elimination of programs
- Technology changes
- Enhancement of existing programs
- Flexibility

How often do you use the computer lab?

Rarely if ev [11]

Daily [0]
Weekly [0]

Monthly [5]

Facility Analysis

– Capacity (Building and Programs)

– Utilization

– Educational Planning

– Before and After School Use

Facility Analysis Process

– Design Team and Administrative Team discussions

– Building staff meetings

– Review of drawings, reports and other studies

– Architects and Engineers building review

– Architects and Engineers site review
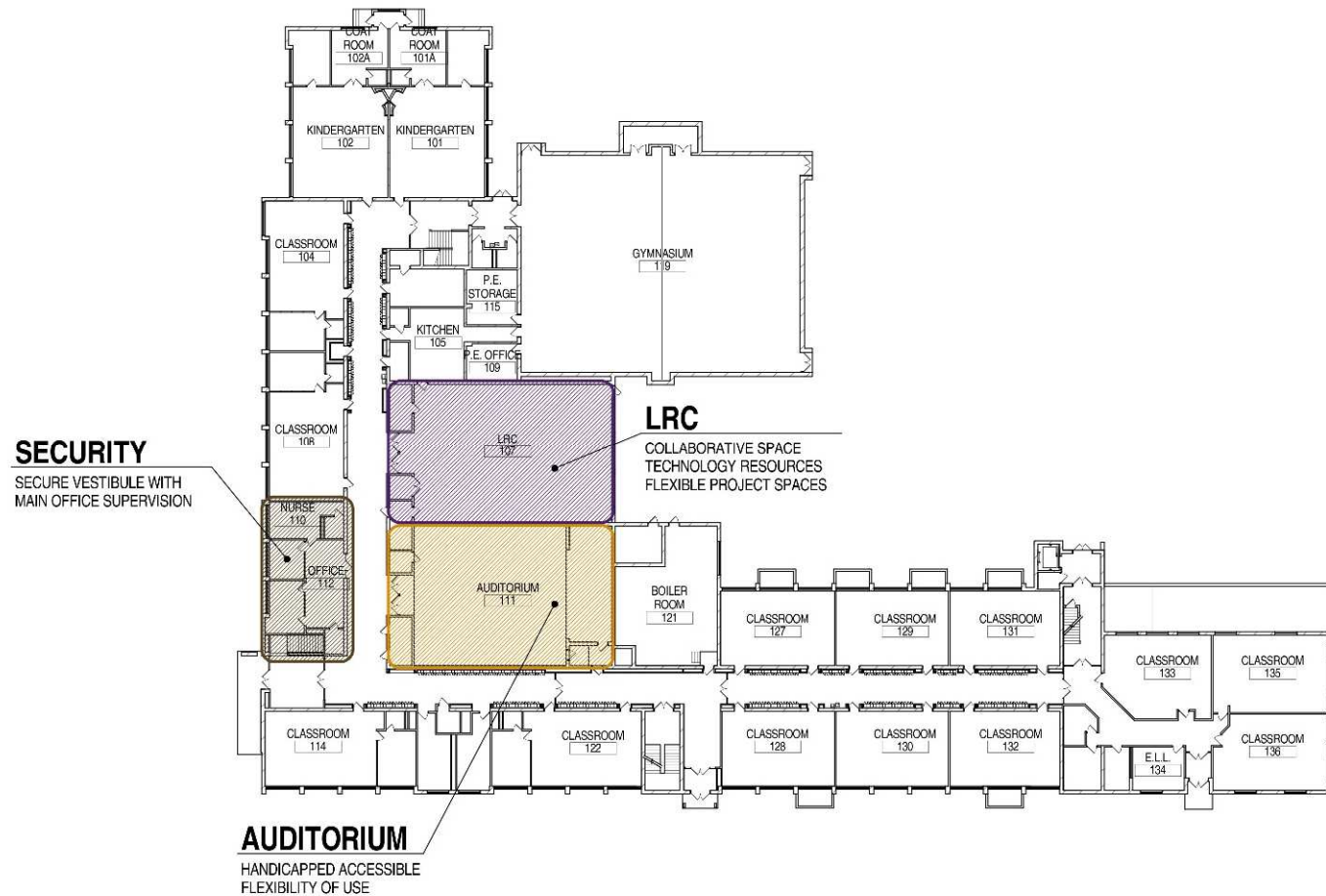
Master Facilities Plan Projects

– Concept Development Level
  • Identify goals and objectives
  • Document area of need
  • Define square foot area to be address
  • Written description of a solution
– Expected results
– Anticipated budget or budget range
– Does not include design solutions

Project Definition

Concept $\longrightarrow$

Concept gives meaning and purpose learned from the client's goals and objectives.

SECURITY
SECURE VESTIBULE WITH
MAIN OFFICE SUPERVISION

LRC
COLLABORATIVE SPACE
TECHNOLOGY RESOURCES
FLEXIBLE PROJECT SPACES

AUDITORIUM
HANDICAPPED ACCESSIBLE
FLEXIBILITY OF USE

Design Process

Concept

Concept gives meaning and purpose learned from the clients goals and objectives.
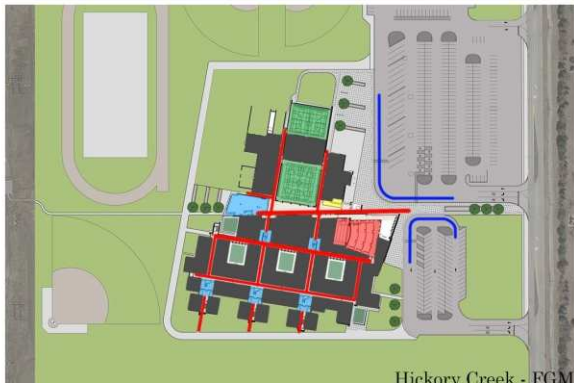
Context

Context gives specificity to the project. The context may be historical, geographical, cultural, political or economic.

Hickory Creek - FGM

Oak Prairie - FGM

Prairie Oak - FGM
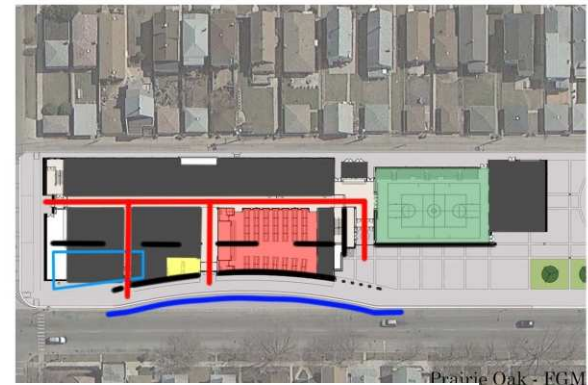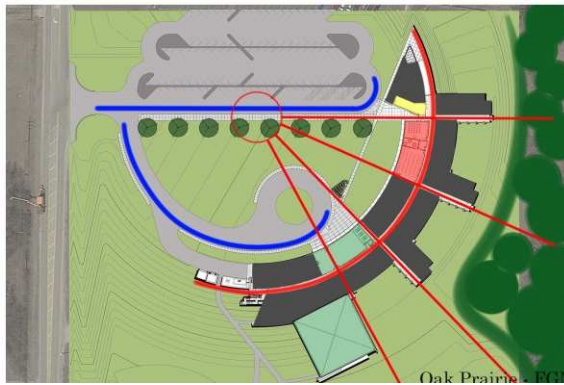
Diagram

Diagram is a sketch, outline, or plan demonstrating the form of something.
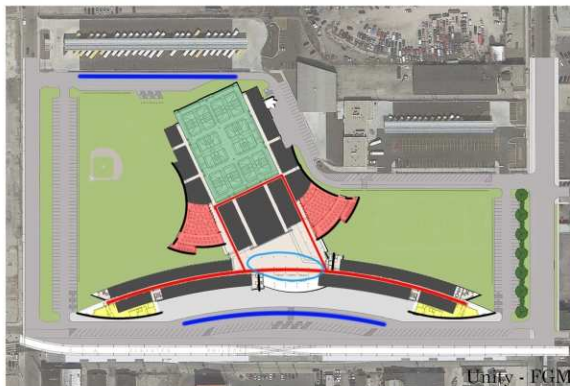
Parti

Parti is the basic options of an architectural design.
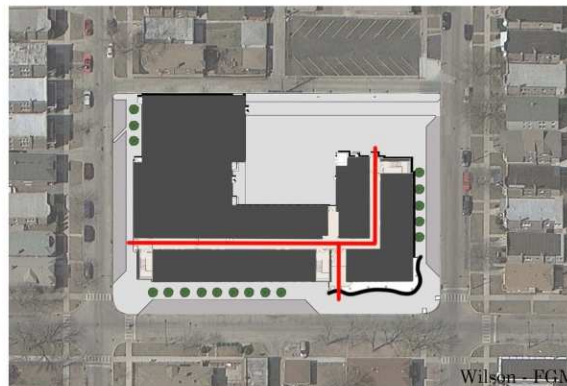
Unity - FGM

Wilson - FGM

Winfield - FGM

ENROLLMENT

Demographic Information

– Demographic material reviewed

- Kasarda Report from September 2013
- New residential development within the District
- Monthly enrollment information from District

– Based on a review of the information provided and discussions with the administration, Kasarda B Projection for overall District enrollment will be used for planning purposes

Kasarda B Projection

Enrollment Projection Assuming Future Fertility Rates Remain Constant (through 2018) and Both Turnover of Existing Housing Units and Teardowns *Occur as Currently Anticipated* through 2023–24

Community Consolidated School District 64

Series B projection										
Grade	2013–14	2014–15	2015–16	2016–17	2017–18	2018–19	2019–20	2020–21	2021–22	2022–23	2023–24
K	396	405	411	409	409	410	404	401	402	400	405
1	487	439	448	454	452	452	451	445	442	443	441
2	448	506	458	467	473	471	471	470	464	461	462
3	487	459	517	469	478	484	482	482	481	475	472
4	473	496	468	526	478	487	493	491	491	490	484
5	474	479	502	474	532	484	493	499	497	497	496
6	535	488	493	516	488	546	498	507	513	511	511
7	539	540	493	498	521	493	552	504	513	519	517
8	487	547	548	501	506	529	498	557	509	518	524
K–8	4,326	4,359	4,338	4,314	4,337	4,356	4,342	4,356	4,312	4,314	4,312
Sp. Ed.	65	68	68	67	67	68	68	68	67	67	67
Total	4,391	4,427	4,406	4,381	4,404	4,424	4,410	4,424	4,379	4,381	4,379

**PARK RIDGE NILES
SCHOOL DISTRICT 64**

Program Needs - April 27, 2015

FGM ARCHITECTS

CAPACITY AND UTILIZATION

Capacity Model

- Factors affecting capacity
  - Grade levels served
  - Programs
  - Scheduling
  - Policies
- Capacity is best expressed as a range using different sets of assumptions
- Other building components can affect capacity
  - Cafeteria
  - Lockers
  - Other building wide resources

Elementary School Capacity

– Use all classroom size spaces

– Eliminate rooms used for other dedicated uses

- Self-contained special education
- Art
- Music
- Other special programs

– Multiply number of rooms by grade level class size

Middle School Capacity

– Middle School scheduling impacts capacity

- High School model

- Elementary model

– Emerson and Lincoln Middle Schools have a hybrid model

- Rooms are used for a higher percentage of the day to accommodate extensive exploratory program

- Schools attempt to create consistent rooms for teams

Utilization

- How are rooms used throughout the day

- Are rooms appropriately sized
  - Planned number of students
  - Activities

Utilization

LEGEND

CORE EDUCATIONAL
- PRE-K, EARLY CHILDHOOD & KINDERGARTEN
- PRE-K, EC & KINDERGARTEN SUPPORT
- CLASSROOMS
- CLASSROOM SUPPORT
- SPECIALTY ROOMS

SPECIALIZED EDUCATION
- SCIENCE
- SCIENCE SUPPORT
- PRACTICAL ARTS
- PRACTICAL ARTS SUPPORT
- FINE ARTS
- FINE ARTS SUPPORT

OTHER
- AUDITORIUM
- CAFETERIA / MPR
- CAFETERIA SUPPORT
- GYMNASIUM
- GYMNASIUM SUPPORT
- TECHNOLOGY
- LIBRARY
- LIBRARY SUPPORT

- EDUCATIONAL SUPPORT
- FACILITY SUPPORT

**PARK RIDGE NILES
SCHOOL DISTRICT 64**

Program Needs - April 27, 2015

FGM ARCHITECTS

Space Classification

— Core Education

— Specialized Education

— Educational Support

— Large Group Spaces

— Facility Support

EDUCATIONAL PLANNING

Educational Planning

– Arrangement of Spaces

– Size and Variety of Spaces

– Zoning of Spaces and Community Use

– Future Expandability

– Structural Flexibility

– Site Adjacencies

Educational Planning

- Flow of students and staff within the building
- Variations between spaces serving similar functions
  - Within a building
  - Across the District
- Suitability of spaces
  - Natural light
  - Acoustical issues
  - Comfort
- Flexibility of spaces for future changes – Known and Unknown

Educational Areas

- Core Classrooms

- Kindergarten Classrooms

- Early Childhood Program

- Large Group Spaces
  - LRC
  - Auditorium
  - Gymnasium
  - Multi-Purpose

- Educational Support

- Elementary Art and Music

- Other Spaces

Core Classrooms

- Furniture
  - Loose furniture
  - Built in casework
- Finishes
  - Paint
  - Flooring
- Fit
  - Display
  - Wall mounted writing surfaces

- Technology
  - Wiring
  - Digital display
  - Printers
  - Other
- Qualitative
  - Lighting
  - Acoustics
  - Physical comfort

Kindergarten Classrooms

– Evaluation of current rooms similar to classroom evaluation

– Full day Kindergarten would require additional classrooms

– Facility options include adding on to each building or providing classrooms in a centralized location

As part of the MFP, we will provide the <u>facility costs</u> associated with a full day Kindergarten program. This information may be useful to the administration and board if changes are considered in the future as a result of the strategic planning process.

Early Childhood Program

– Jefferson School physical condition

– Suitable environment for early childhood learning

– Traffic drop-off and pick-up considerations

Large Group Spaces

– Learning Resource Center, Gymnasium / Cafeteria and Auditorium

- 25% of the usable building area

– These spaces are used for daily activities and also are available to support classroom activities

- Flexible space
- Larger groups

– Explore how these spaces best support learning

Educational Support

– Impact of push-in or pull-out special education programs

– Small group spaces

- Location of spaces near students served
- Small group spaces inside some classrooms

– Support spaces for staff

Elementary Art and Music

School	Art	Music	Notes
Elementary Schools			
Carpenter	1,161 SF	833 SF 306 SF	General music is taught on the ground floor Instrumental music is taught in the lower level
Field	1,030 SF	Stage / Cart Kitchen	Two teachers use stage and go to classrooms with a cart Instrumental music is taught in the south Kitchen
Franklin	735 SF	838 SF	
Roosevelt	877 SF	Stage 671 SF	
Washington	1,014 SF	Stage 1,069 SF	Primary grade music is taught on the stage Grades 3-5 music is in a dedicated classroom
Jefferson	852 SF		Art and Music share a classroom

Other Spaces

- Science
  - Inquiry based (NGSS)
  - Safety

- Foreign Language

- Middle School Exploratory Programs
  - Specialized space and equipment requirements
  - Other offerings are held in core classrooms

- District Office

Next Steps

- Review analysis with District Design Team

- Define scope for possible projects

- Work with Nicholas & Associates to prepare budgets

- Evaluate possible work in the context of the facility needs

Project Prioritization

- **Priority One**
Violation of the code or a health / safety concern or significant additional costs if item is not addressed

- **Priority Two**
Necessary to comply with a recommended standard or increase operating efficiency or extend the useful life of the building or a system

- **Priority Three**
Improve the quality of materials or systems or reduce the risk of future failures or the enhance performance of a system

Continual Improvement

BUILDING EFECTIVENESS FOR LEARNING

- Each student has best facilities
- Better fiscal management of resources
- Adapt school to changing pedagogy
- Offset normal deterioration by catching facility problems early

$$$$

$$

20 Year Renovation

Original Construction Cost

10 Years

20 Years

40 Years

TIME

PARK RIDGE NILES SCHOOL DISTRICT 64

Program Needs - April 27, 2015

FGM ARCHITECTS