The following is a narrative intended to accompany the component flow chart and sequencing diagrams illustrating the current draft of the master facilities plan. This provides context and detailed explanations about how these diagrams are intended to be utilized and the information they are conveying.
General Information

The Facilities Master Plan for OPRF has been previously been presented as a series of five sequences. Within those sequences the various elements of the Master Plan are further broken down into Components. These Components include groups of spaces based on reasonable project areas, common functional space, and logical divisions from adjacent spaces. The Components were then grouped together into the five sequences based on priorities assigned by the Imagine Group, construction efficiency in the execution of similar construction scope, and logical construction sequencing. These Components can be executed as discreet projects or grouped together into larger construction projects, giving the Board of Education the flexibility to decide how much they wish to address at any one time with the knowledge of how that Component relates to all the other Components of the overall Master Plan. The set of diagrams, spreadsheets and other documents included with this narrative illustrate how these Components relate to each other in construction sequencing, location within the building, and estimated project budget cost. Below are further descriptions of the Component Flow Chart and Sequencing Diagrams.

Component Flow Chart

The Component Flow Chart illustrates the various Components included in each sequence and how they relate to each other. Each Component is given a letter designation, a descriptor naming the major elements included in the Component, the estimated project budget cost, and the estimated construction duration. Some groupings will include multiple Components such as P 1-4 or G,J&K. In the case of P 1-4: Classrooms, the renovation of the typical classrooms were broken into four Components for budgeting purposes as all classrooms would not be renovated in a single summer. Components G,J&K are grouped together, as it is most likely they would be executed simultaneously. They were originally separated as the Master Plan was developing to maximize flexibility.

Connecting many of the Components are a series of lines and arrows. These arrows illustrate relationships between Components, where the Component at the start of the line is considered to be an “Enabling” project for the Component the arrowhead is pointing to. Enabling Components either need to be completed prior to or at the same time as the Components the arrow is pointing to. For example Component C: South Cafeteria & Student Resource Center (Library) must be constructed prior to the existing library, Component L, being renovated into new classrooms, science labs and offices. While both are included in Sequence 1, one would have to follow the other. Some lines span multiple Sequences, as is the case for Components S 1-4 and R. These Components could be executed in earlier Sequences if the Board chooses, so long as the Enabling Components G,J&K are executed first.

The Components below the dashed line at the bottom of the page are viewed as completely independent. They can be executed at any point in time and have little to no impact on other Components.
Some of the Components are shown in different colors. All green roofs are shown in green. Solar Panels are shown in orange. Additional notes or Components that have either been adjusted from what has been previously presented or were deemed as important to highlight for the Board’s attention are shown in red.

You will notice below most of the green roof Components a parenthetical note is added that you may alternatively consider solar panels. Green roofs provide much added value in the management of storm water and increased thermal insulation of the roof. Storm water is a significant issue throughout the metropolitan Chicago area and governing bodies are implementing stricter and stricter measures to deal with the issue for every new construction project that affects the site or the overall footprint of the building. Such measures include increasing of pervious surfaces to allow storm water to penetrate into the soil or installing systems that slow the release of storm water from the specific site into the municipal storm water sewer system. Green roofs are a very effective way to slow the flow of storm water from the building roof to the municipal system. With that being said, there have been several questions as to why solar panels are only shown in Sequence 5. Solar panels can certainly be installed in lieu of a green roof. As is noted for Component SS, the District is exploring options where the solar panels would be installed and maintained by the electricity service provider, similar to what the OP Park District recently implemented. If such a similar deal could be executed for OPRF, then the inclusion of solar panels in an earlier Component may be viewed as a more desirable avenue for the Board.

**Component Sequencing Diagrams**

The Component Sequencing Diagrams are a series of exploded axonometric plans showing where the Components are located within the school. Each page represents an entire Sequence of Components, with the Sequence listed at the bottom of the page.

An exploded axonometric plan is a view of the school as if you were floating in the air, looking down at the school from an angle. Each of the floors of the building is broken apart and stacked such that the bottom is the lower level with the first floor stacked directly above that and each subsequent floor stacked above. To the left of the page are the floor designations, Lower Level through 4th Floor in capital letters.

The individual colored blocks in the axon plans are colored in relation to the specific department, i.e. Math, Science, Special Education, etc., the space is associated with. In the bottom right hand corner is a Legend showing which departments are related to each color. Groups of these individual colored blocks are then outlined in light red dashed lines to indicate a Component and tagged with the associated Component letter (C, P1, QQ, etc.). As was described earlier in this document, Components are groups of spaces based on reasonable project areas, common functional space, and logical divisions from adjacent spaces. The text to the left and right of the page has the Component heading in red, with bullet point listing of the individual elements included in the Component and organized by floor.
NOTES:
- Components at the head of the line are enabling projects for Components at the end of the arrowhead
- Components below the dashed line can be executed independently of other Components
- All green roofs are shown in green
- Solar panels are shown in orange
- All Components below the dashed line can be executed independently of other Components

* $163,000 transferred from Sequence 1 to Sequence 2 from previously presented costs to correct miscategorized element

SEQUENCE 1
$28,344,600*
Component C:
SRC & S Cafe
$13,654,700
Duration - 14 months
Component VV:
Green Roof over SRC
$432,400
Duration - 14 months
(Alternatively explore Solar Panels)
Component QQ:
Roof Terrace over N Cafe
$1,344,900
Duration - Summer
Component L:
Classrooms & Labs (12&3) infill of Library
$4,862,300
Duration - Summer
Component G,J&K:
SPED TEAM & Huskie Pups
$1,572,600
Duration - Summer

SEQUENCE 2
$66,905,100*
Component D:
SE Physical Education Addition
$65,367,600
Duration - 18 months
Component UU:
Green Roof over SE Addition
$1,537,500
Duration - 18 months
(Alternatively explore Solar Panels)
Component A:
SW Perf Arts & Physical Education Addition
$42,182,500
Duration - 16 months
Component TT:
Green Roof over SW Addition
$935,100
Duration - 18 months
(Alternatively explore Solar Panels)
Component E1:
Field House Extension, Flooring & Mech. upgrades
$4,411,200
Duration - 7 months

SEQUENCE 3
$49,629,100
Component I&F:
Commons & Main Entrance-Phase 1
$5,453,600
Duration - 6 months
Component F:
Bldg & Dist Administration
$2,137,500
Duration - Summer
Component H:
Student Services
$1,160,900
Duration - Summer
Component N:
Classrooms (4)
$921,700
Duration - Summer
Component M:
Science Labs (3)
$1,608,800
Duration - Summer
Component S 1-4:
Science Labs (12)
$4,496,000
Duration - Summer
Component R:
Science Labs (2)
$1,103,000
Duration - Summer
Component X:
Huskie Pups
$863,600
Duration - Summer
Component Y&Q:
CTE & Drivers' Ed
$759,800
Duration - Summer
Component T&U:
SPED LD/ED & 4th Flr Classrooms (6)
$1,825,400
Duration - Summer

SEQUENCE 4
$20,566,200
Component B:
Kitchen & N Cafe
$2,453,000
Duration - Summer
Component HH:
Theater Lighting
$1,046,400
Duration - Summer
Component EE:
Tennis Courts
$1,227,700
Duration - Summer

SEQUENCE 5
$53,465,800
Component BB:
Classrooms (12)
$5,726,000
Duration - Summer
Component CC:
Classrooms (7)
$1,871,800
Duration - Summer
Component E2:
Comp Gym, Field House & Classrooms (6)
$33,601,100
Duration - 14 Months
Component D:
PE Shell Space
$984,200
Duration - Summer
Component SS:
Solar Panels over Comp E2 Addition
(District is exploring options where this would be installed and maintained by the service provider, similar to Park District.)
Duration - 14 Months
Component Z&AA:
FACS Labs (4) & 4th Flr Classrooms (6)
$3,558,400
Duration - Summer
Component KK:
Art Labs Mechanical
$2,105,100
Duration - Summer
Component GG:
S Fields Storage & Bleachers
$349,000
Duration - Summer
Component QQ:
Roof Terrace over N Cafe
$1,344,900
Duration - Summer
Component PP:
Comp Gym, Field House & Classrooms (6)
$33,601,100
Duration - 14 Months

Components P 1-4:
Classrooms (64)
$6,030,400
Duration - Multiple Summers
Component RR:
Green Roof over West Gym
$2,453,000
Duration - Summer
(Alternatively explore Solar Panels)

Components P 1-4:
Classrooms (64)
$6,030,400
Duration - Multiple Summers
Component RR:
Green Roof over West Gym
$2,453,000
Duration - Summer
(Alternatively explore Solar Panels)

Components P 1-4:
Classrooms (64)
$6,030,400
Duration - Multiple Summers
Component RR:
Green Roof over West Gym
$2,453,000
Duration - Summer
(Alternatively explore Solar Panels)
EXISTING OPRF Master Plan
Component Diagrams
November 9, 2018
Component VV:
- 4th Floor:
  - Green Roof over Student Resource Center

Component RR:
- 3rd Floor:
  - Green Roof over West Gym

Component QQ:
- 2nd Floor:
  - Green Roof Terrace over existing Kitchen / North Cafeteria

Component C:
- 3rd Floor:
  - Student Resource Center
- 2nd Floor:
  - Tutoring Center
- 1st Floor:
  - South Cafeteria

Component P1:
- 3rd Floor:
  - Renovation of 15 Classrooms

Component P2:
- 2nd Floor:
  - Renovate 12 Existing Classrooms
  - 4 Shared Faculty Offices

Component P3:
- 3rd Floor:
  - Renovate 14 existing Classrooms
  - 4 Shared Faculty Offices
  - Collaboration Space

Component P4:
- 4th Floor:
  - Renovation of 23 Classrooms
  - 2 Shared Faculty Offices

Component L:
- 3rd Floor:
  - 7 New Classrooms
  - Shared Faculty Office
  - 2 Small Group Rooms
  - Photo Studio CR
  - Arts Offices
  - Graphics Arts CR
  - Arts Small Group Rooms
  - Art Critique / Collaboration Space
- 2nd Floor:
  - 5 New Classrooms
  - Shared Faculty Office
  - Science Lab
  - Science Storage / Prep

Component P2:
- 2nd Floor:
  - Renovate 12 Existing Classrooms
  - Shared Faculty Office

Component RR:
- 3rd Floor:
  - Green Roof over West Gym

Component QQ:
- 2nd Floor:
  - Green Roof Terrace over existing Kitchen / North Cafeteria

Component P3:
- 3rd Floor:
  - Renovate 14 existing Classrooms
  - 4 Shared Faculty Offices
  - Collaboration Space

Component P4:
- 4th Floor:
  - Renovation of 23 Classrooms
  - 2 Shared Faculty Offices

Component G:
- 1st Floor:
  - SPED Offices

Component J:
- 1st Floor:
  - TEAM Classrooms
  - SPED Classrooms

Component K:
- 1st Floor:
  - Huskie Pups Room

Legend:
- ADMINISTRATION
- APPLIED ARTS
- ART: PERFORMING
- ART: VISUAL
- BUILDING SERVICES
- COMMUNITY / SHARED SPACES
- ENGLISH
- GENERAL / SHARED CLASSROOMS
- HISTORY
- LIBRARY
- MATH
- PHYSICAL EDUCATION / ATHLETICS
- SCIENCE
- SPECIAL EDUCATION
- WORLD LANGUAGE
Component D:
- All Floors:
  - Elevator
- 4th Floor:
  - Mechanical
  - Shell/Storage
- 3rd Floor:
  - Weight Room
  - Toilet Rooms
  - PE Storage
  - Multicourt Competition Gymnasium
- 2nd Floor:
  - Multipurpose Dance
  - Toilet Rooms
  - PE Storage
  - Pool Seating
- 1st Floor:
  - PE/Athletic Office and Support
  - Concessions
  - Toilet Rooms
  - Multipurpose Room / Classroom
  - Pool Deck
  - Pool Lockers
  - PE Storage
- Lower Level:
  - Changing Facilities
  - Pool Mechanical
  - Pool Tank
  - PA Storage
  - PA Dressing Room

Component E1:
If no intention to move forward with expanded 200M track option in later phases:
- Expansion of existing Field House into alley to create more viable indoor track and flexible Field House
- Replacement of F.H. flooring
- Upgrade of F.H. Mechanical systems

Component UU:
- 5th Floor:
  - Green Roof over Comp. D

LEGEND:
- Administration
- Applied Arts
- Art: Performing
- Art: Visual
- Building Services
- Community / Shared Spaces
- English
- General / Shared Classrooms
- History
- Library
- Math
- Physical Education / Athletics
- Science
- Special Education
- World Language
Component TT:
- 5th Floor:
  - Green Roof over Comp. A

Component A:
- 4th Floor:
  - Mechanical
- 3rd Floor:
  - Multipurpose
  - Gymnastics
  - Adaptive Cardio
- 2nd Floor:
  - PA Storage x2
  - Practice Rooms x9
  - Ensemble Room
  - BB Control Room
- 1st Floor:
  - Choir
  - Orchestra
  - Band
  - Black Box Theater
  - Dressing Room
  - Stagecraft
  - PA Offices (2 Person x2)
  - PA Storage x2
  - Practice Rooms x9
- Lower Level:
  - Team Changing Facilities & Equipment
  - Multipurpose Wrestling
  - PE Storage

Component I:
- All Floors:
  - Elevator
- 3rd Floor:
  - East End of Commons
- 2nd Floor:
  - Commons
- 1st Floor:
  - Commons

Component F:
- 2nd Floor:
  - Toilet Room
- 1st Floor:
  - Main Entrance
  - Toilet Room

Component V:
- 1st-4th Floors:
  - Transgender Toilet Rooms

Component W:
- All Floors:
  - Elevator
November 9, 2018
SEQUENCE 4
OPRF Master Plan
Component Diagrams
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Component U:
- 4th Floor:
  - New Classrooms x6
  - Collaboration Space

Component PP:
- 4th Floor:
  - New Classrooms x2
  - New Shared Faculty Offices x2
  - Small Group / Collaboration Space
  - Multipurpose Classrooms x3

Component T:
- 3rd Floor:
  - SPED LD/ED Classrooms, Offices and Support Spaces

Component R:
- 2nd Floor:
  - Science Labs x2
  - Science Prep/Storage

Component S1:
- 2nd Floor:
  - New Science Labs x2
  - Shared Faculty Office
  - Renovation of Existing Classroom

Component S2:
- 2nd Floor:
  - Renovation of Existing Science Labs x3 and Prep/Storage Spaces

Component S3:
- 2nd Floor:
  - New Science Labs x2
  - Shared Faculty Office
  - Renovation of Existing Classroom

Component R:
- 2nd Floor:
  - Science Labs x2
  - Science Prep/Storage

Component EE:
- 1st Floor:
  - Replace Tennis Courts

Component X:
- 1st Floor:
  - Driver's Ed Classroom

Component Y:
- 1st Floor:
  - CTE Lab TBD (Career Technical Education)

Component Q:
- 1st Floor:
  - Driver's Ed Classroom

LEGEND
- ADMINISTRATION
- APPLIED ARTS
- ART: PERFORMING
- ART: VISUAL
- BUILDING SERVICES
- COMMUNITY / SHARED SPACES
- ENGLISH
- GENERAL / SHARED CLASSROOMS
- HISTORY
- LIBRARY
- MATH
- PHYSICAL EDUCATION / ATHLETICS
- SCIENCE
- SPECIAL EDUCATION
- WORLD LANGUAGE
OPRF Master Plan
Component Diagrams
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SEQUENCE 5

Component AA:
- 4th Floor:
  - New Classrooms x6
  - New Collaboration Space

Component O:
- 3rd Floor:
  - New Classrooms x3
  - New Small Group / Collaboration Spaces

Component DD:
- 3rd Floor:
  - Renovation of Business Suite of Classrooms with New Collaboration Spaces

Component KK:
- 3rd Floor:
  - Renovation of Visual Arts Labs Mechanical Systems

Component SS:
- 5th Floor:
  - Solar Panels over Comp. E2

Component E2:
This Component assumes Comp. E was not executed.
- 4th Floor:
  - Track Spectator Seating
  - Renovate Shell / Storage Spaces from Comp. D to:
    - Track Spectator Seating
    - Toilet Rooms
    - Concessions

Component FF:
- Site:
  - West Fields Synthetic Turf

Component GG:
- Site:
  - South Fields Storage and Seating

Component AA:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component CC:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component BB:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component Z:
- 1st Floor:
  - New FACS Labs (Family and Consumer Sciences)
  - New Commercial Kitchen Lab
  - New Child Development Classroom

Component O:
- 3rd Floor:
  - New Classrooms x3
  - New Small Group / Collaboration Spaces

Component CK:
- 3rd Floor:
  - Renovation of Visual Arts Labs Mechanical Systems

Component SS:
- 5th Floor:
  - Solar Panels over Comp. E2

Component E2:
This Component assumes Comp. E was not executed.
- 4th Floor:
  - Track Spectator Seating
  - Renovate Shell / Storage Spaces from Comp. D to:
    - Track Spectator Seating
    - Toilet Rooms
    - Concessions

Component FF:
- Site:
  - West Fields Synthetic Turf

Component GG:
- Site:
  - South Fields Storage and Seating

Component AA:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component CC:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component BB:
- 4th Floor:
  - Skylight over 3rd Floor New Central Corridor
- 3rd Floor:
  - New Classrooms x3
  - New Shared Faculty Office
  - Renovation of Existing Classrooms x4
  - Renovation of Shared Faculty Office
  - New Corridor aligned with Central Corridor to the North

Component Z:
- 1st Floor:
  - New FACS Labs (Family and Consumer Sciences)
  - New Commercial Kitchen Lab
  - New Child Development Classroom

Component O:
- 3rd Floor:
  - New Classrooms x3
  - New Small Group / Collaboration Spaces

Component CK:
- 3rd Floor:
  - Renovation of Visual Arts Labs Mechanical Systems

Component SS:
- 5th Floor:
  - Solar Panels over Comp. E2