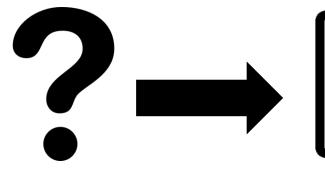


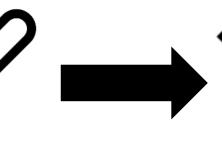
# **PROJECT PROCESS**



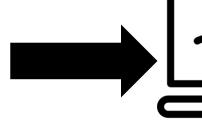
#### **CHALLENGE**

- Anticipated growth in district
- Current state of existing school
- Integration of full day kindergarten









### PROGRAMMING

- 5 classrooms per grade
- Community integration
- Collaborative areas outside of classroom

#### **PROCESS**

- Four collaborative meetings with the teachers, principals, and other integral staff
- Geotechnical investigation of site
- Meeting with Lower Providence Township

#### **DESIGN**

 Integration of program items as well as additional comments from staff



# PROJECT PROCESS

Design team met with district administrators and <u>EVERY</u> teacher from Arrowhead Elementary School to survey their thoughts on the existing building.

Toured three new elementary schools in area school districts:

- Caley Elementary School (Upper Merion Area School District)
- Phoenixville Early Learning Center (Phoenixville Area School District)
- East Coventry Elementary School (Owen J Roberts School District)







SLIDE REMOVED FOR SAFETY REASONS

# PROJECT PROCESS Site Survey



#### SLIDE REMOVED FOR SAFETY REASONS

# PROJECT PROCESS Utility Locations



#### SLIDE REMOVED FOR SAFETY REASONS

# PROJECT PROCESS Geotechnical Investigation



Seth Bacon
Soil & Wetland Consulting
1113 Grandview Circle
Pottstown, PA 19465
(610) 705-9999 sethcbacon@aol.com

December 4, 2019

Nick Feola, P.E. Bursich Associates, Inc. 2129 East High Street Pottstown, PA 19464

RE: Arrowhead Elementary School - W tlands: No Findings
232 Level Rd., Lower Providence Two Montgomery Co. PA

Dear Nick:

I completed a wetland evaluation at the Arrowhead Elementary School at 232 Level Road in Lower Providence Township, Montgomery County, Pennsylvania. Fieldwork was conducted on November 21, 2019 to determine if wetlands or waters of the US and Commonwealth are present within the property. After reviewing and sampling the soils, vegetation and hydrology of the site, I determined that here are no wetlands or waters within the limits of this property. The entire site is considered uplands.

**METHODS:** I evaluated the site using the procedures of the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region*, Version 2.0 (2012) and the *Corps of Engineers Wetlands Delineation Manual* (1987). The US Army Corps of Engineers and the Pennsylvania Department of Environmental Protection require use of these procedures for wetland evaluations within the Northern Piedmont Region (S-148) which includes this site. The manuals define an area as wetlands when under normal circumstances three criteria are present: 1) Hydric (wetland) soils, 2) A predominance of hydrophytic (wetland) vegetation, and 3) Wetland hydrology.

**SITE:** I began the investigation with a walkover to inspect the vegetation, topography and drainage characteristics of the site. The property is roughly rectangular and consists of +/- 12.5 acres of relatively level, open ground on the east side of Level Road directly across from the intersection with Lenape Drive. The property is surrounded by residential land uses.

The central and southwestern portions of the tract contain the school buildings and parking lots, while the northeastern portion of the property is primarily open space that is currently used for

PROJECT PROCESS Wetlands Delineation

Nick Feola, P.E. December 4, 2019 Page 3

<u>Hydrology:</u> The property was inspected for indications of wetland hydrology, such as standing water (inundation), shallow soil depths to free water or saturation, floating debris drift lines, water stained leaves, oxidized root channels, sediment deposits or topographic position. The majority of the property lacks the wetland hydrology indicators listed in the *Regional Supplement*.

SUMMARY: The Arrowhead Elementary school at 232 Level Road in Lower Providence Township, Montgomery County, Pennsylvania does not contain wetlands or waters of the US and Commonwealth. The property is composed of upland plant communities, hydrology, and soils

Please call me if you have any questions concerning my field evaluation or this letter report.

Sincerely,

Seth Bacon, CPSS, PWS, SEO. Soil Scientist, Wetlands Scientist

 The Bacon 2023

Enclosures

Cc: File 2836

#### **NO WETLANDS**



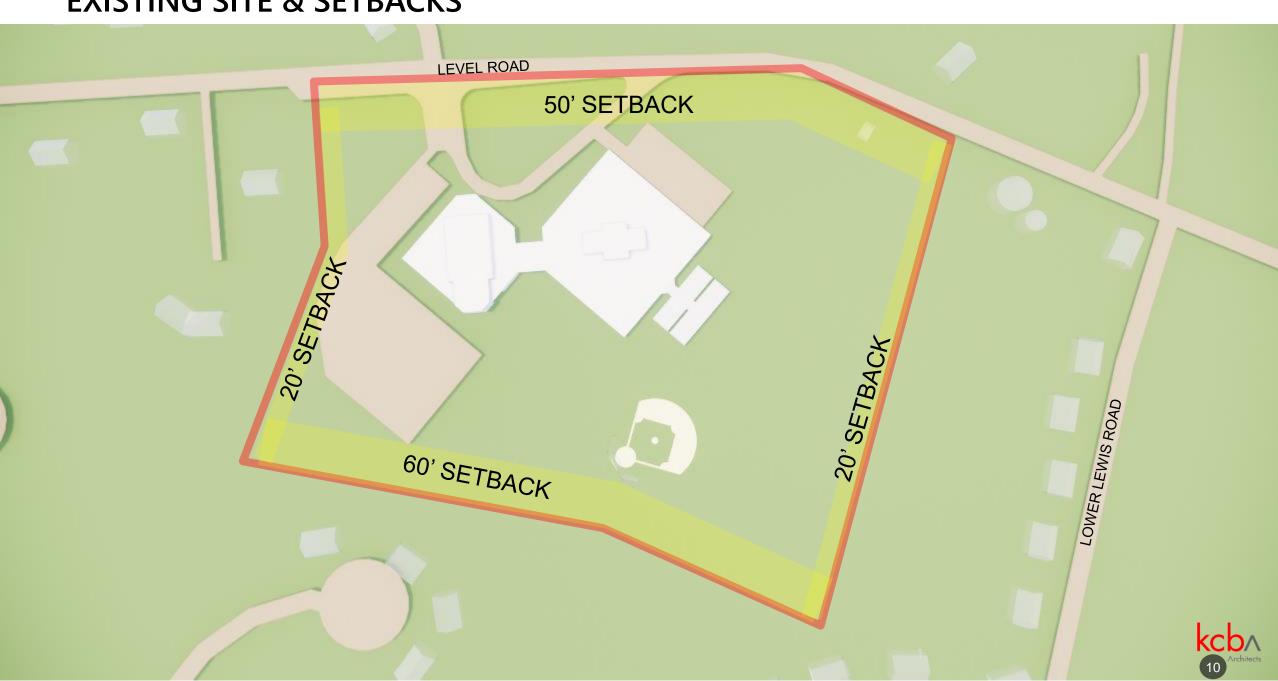




## SITE DESIGN GOALS

- Improve vehicular safety on site
  - Separate bus and car traffic
- 2. Keep play spaces away from Level Road
- 3. Maintain as much open space as possible
- 4. Provide outdoor learning space
- 5. Safe plan for construction of new school

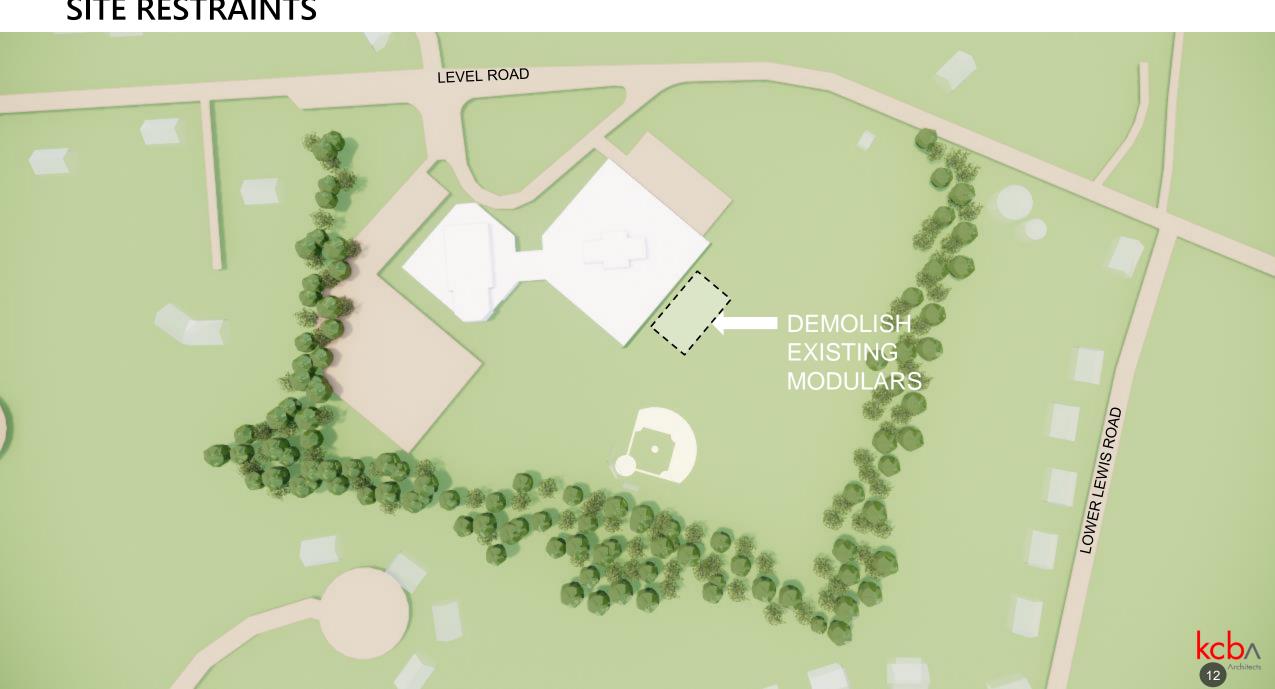
#### **EXISTING SITE & SETBACKS**



#### **SITE RESTRAINTS**



#### **SITE RESTRAINTS**



### **SITE RESTRAINTS**



### PROPOSED SITE PLAN









#### PROPOSED ARROWHEAD ELEMENTARY

K-4 ELEMENTARY

5 CLASSROOMS PER GRADE

**TOTAL CAPACITY: 625** 

BASEMENT: 3,000

FIRST FLOOR: 53,000 SF SECOND FLOOR: 28,000 SF

TOTAL: 84,000 SF

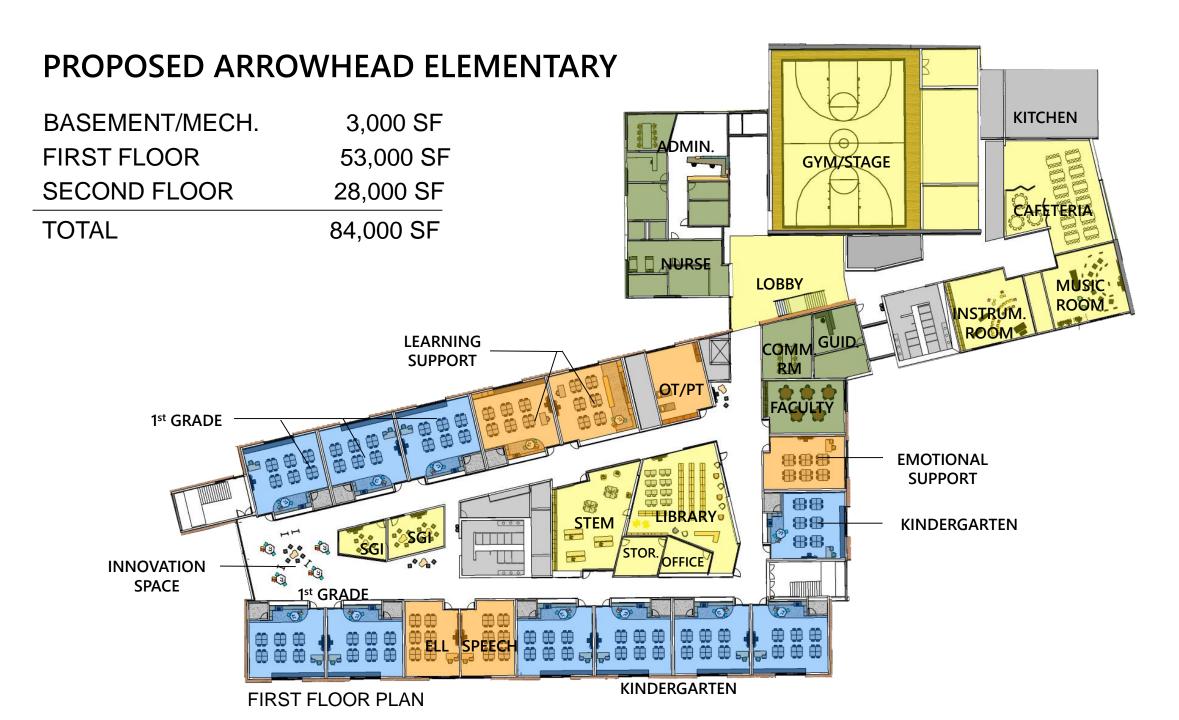
#### **ACADEMIC:**

15 CLASSROOMS, 900 SF, NO TOILETS
10 CLASSROOMS, 835 SF, SINGLE-USE TOILET IN CLASSROOM
8 SPECIAL EDUCATION, 660-900 SF

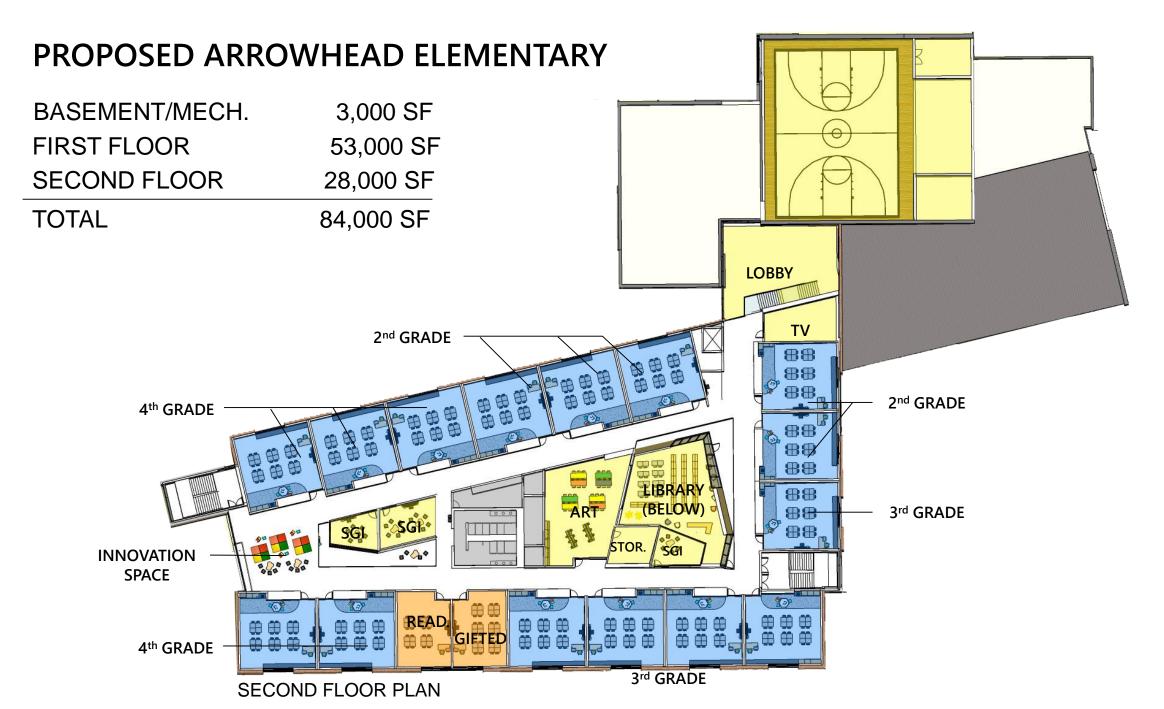
#### **COLLABORATION:**

LIBRARY, 2000 SF + STEM 1200 SF 5 SMALL GROUP INSTRUCTION ROOMS, 350 SF 2 INNOVATION SPACES, 850 SF

COMMUNITY:
CAFETERIA 2000
GYM, 6500 SF
COMMUNITY CONF. ROOM 500

















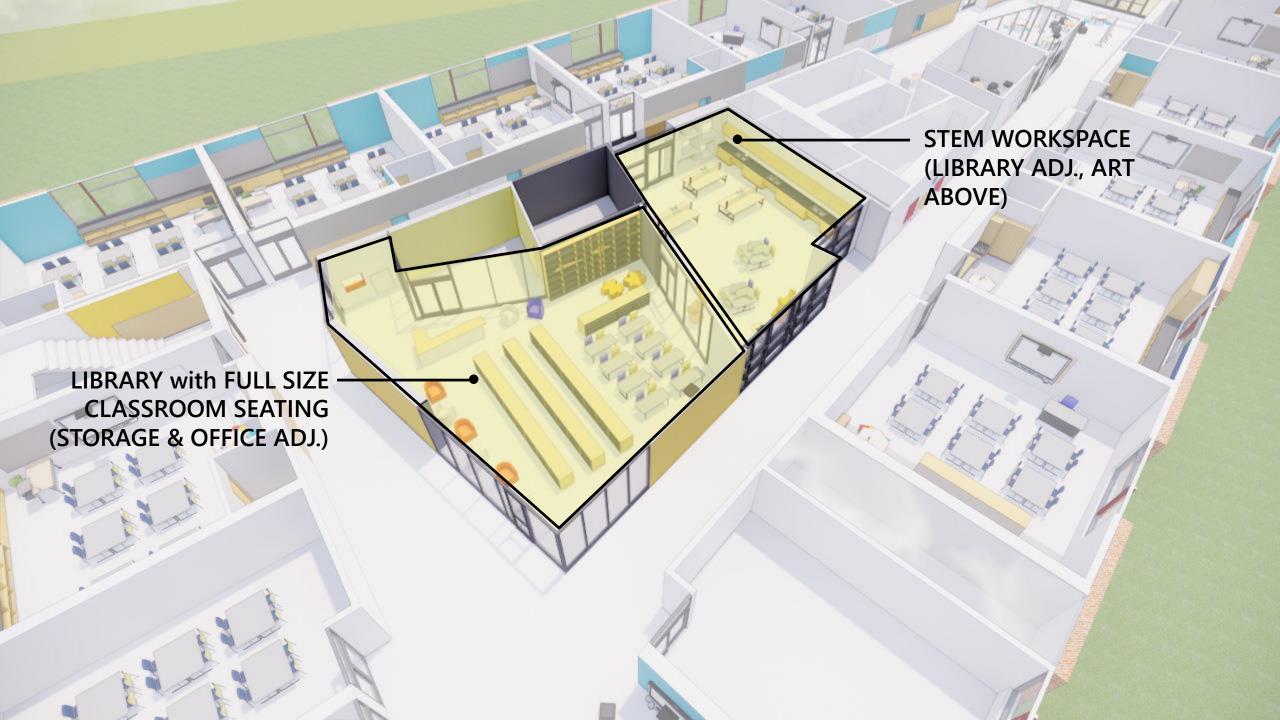








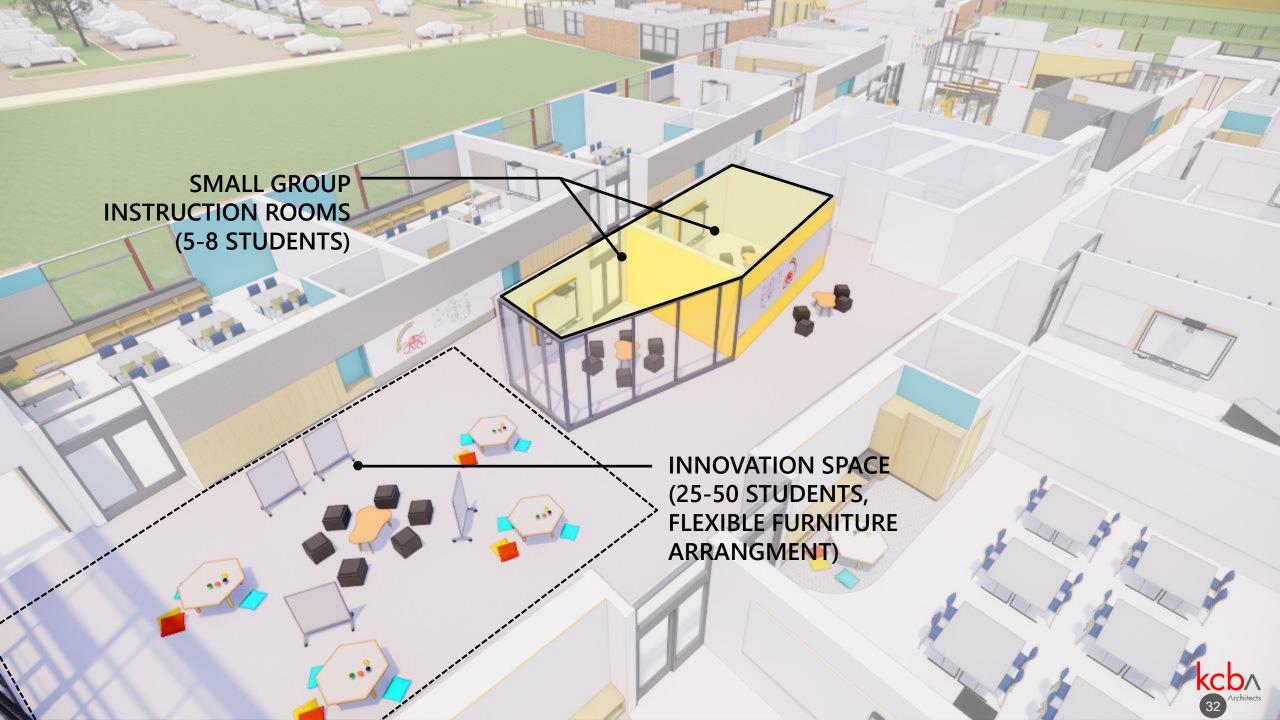


















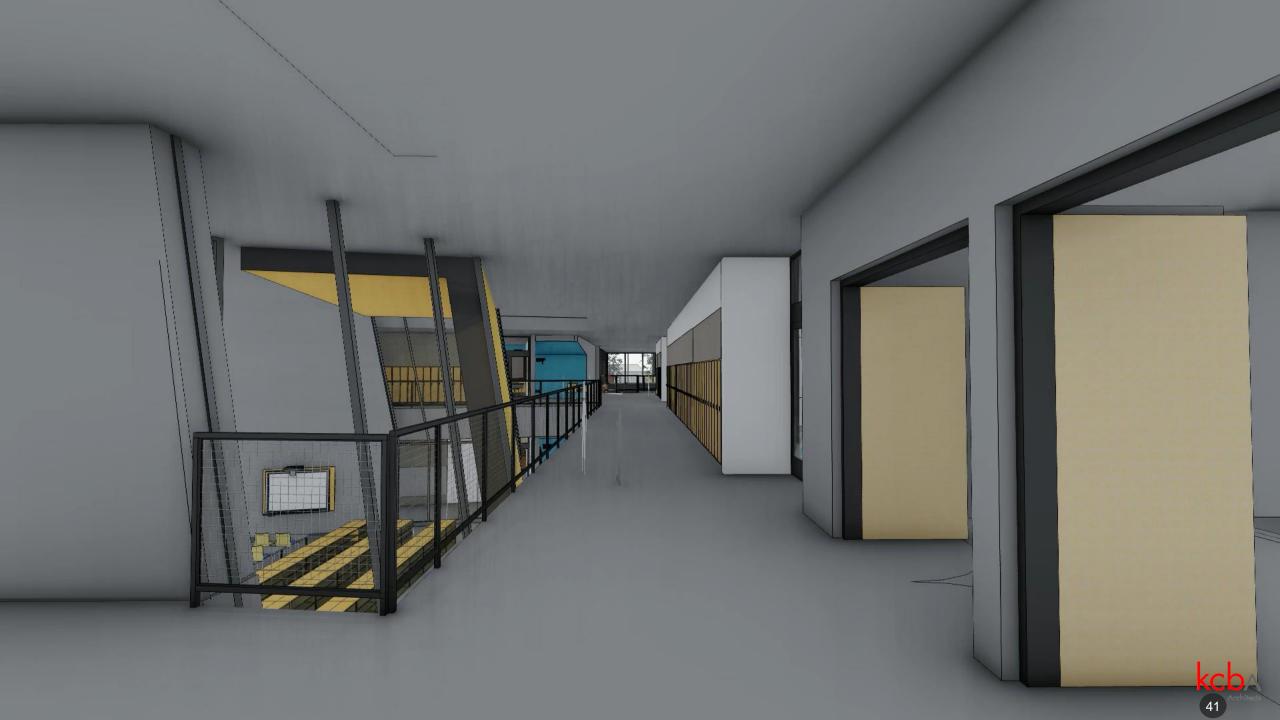








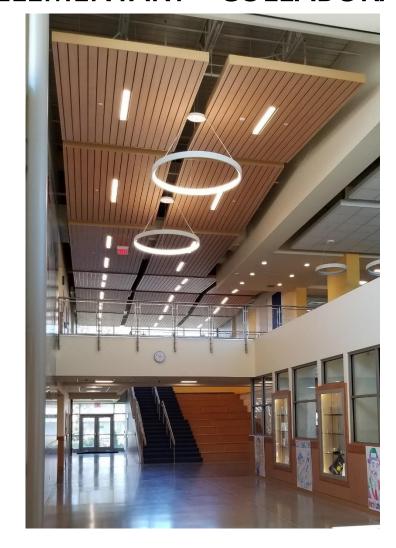


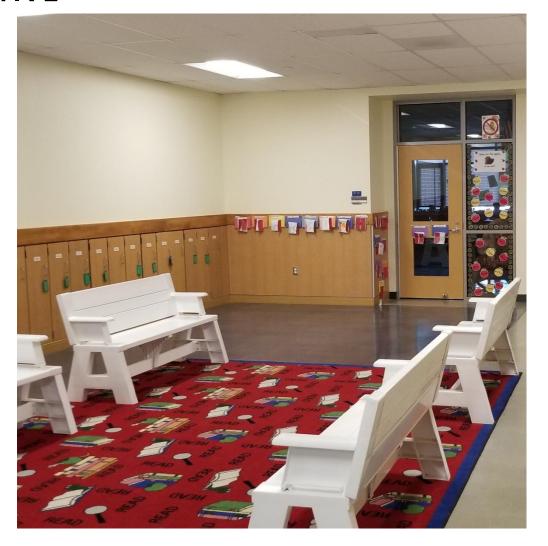






### **CALEY ELEMENTARY - COLLABORATIVE**







### **EXISTING ARROWHEAD - COLLABORATIVE**





#### **EXISTING WOODLAND ELEMENTARY**

LOBBY 2,900 SF

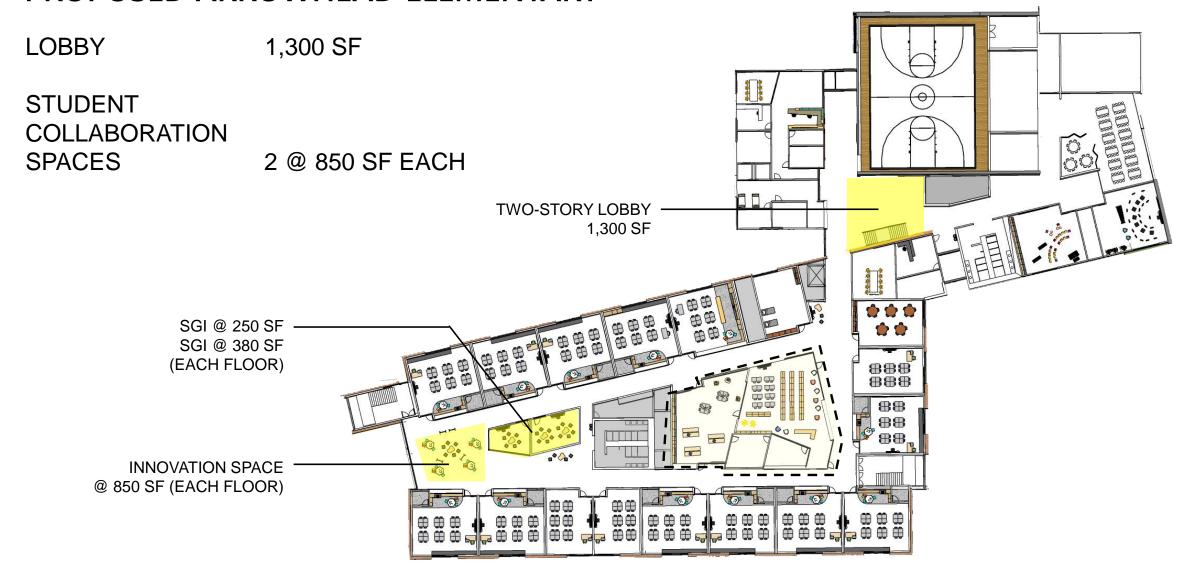
STUDENT COLLABORATION

SPACES 0 SF

SLIDE REMOVED FOR SAFETY REASONS



#### PROPOSED ARROWHEAD ELEMENTARY















#### **EXISTING ARROWHEAD ELEMENTARY**

SCHOOL WITHOUT MODS 53,000 SF

SLIDE REMOVED FOR SAFETY REASONS

FIRST FLOOR PLAN



# EXISTING ARROWHEAD ELEMENTARY

FIRST FLOOR, 53,000 SF

TOTAL 53,000 SF

ADMIN/GUIDANCE/NURSE, 1,600 SF

18 CLASSROOMS, 850 SF

11 SPECIAL EDUCATION, 200-950 SF

LIBRARY, 1880 SF

**0 SMALL GROUP INSTRUCTION ROOMS** 

1 INSTRUMENTAL ROOM, 309 SF 1 MUSIC CLASSROOM, 1041 SF STORAGE, 200 SF

GYM, 2383 SF

CAFETERIA, 2192 SF

# PROPOSED ARROWHEAD ELEMENTARY

FIRST FLOOR, 53,000 SF SECOND FLOOR, 28,000 SF TOTAL 81,000 SF

ADMIN/GUIDANCE/NURSE, 3,000 SF

15 CLASSROOMS, 900 SF 10 CLASSROOMS, 835 SF

8 SPECIAL EDUCATION, 660-900 SF

LIBRARY, 2000 SF + STEM 1200 SF

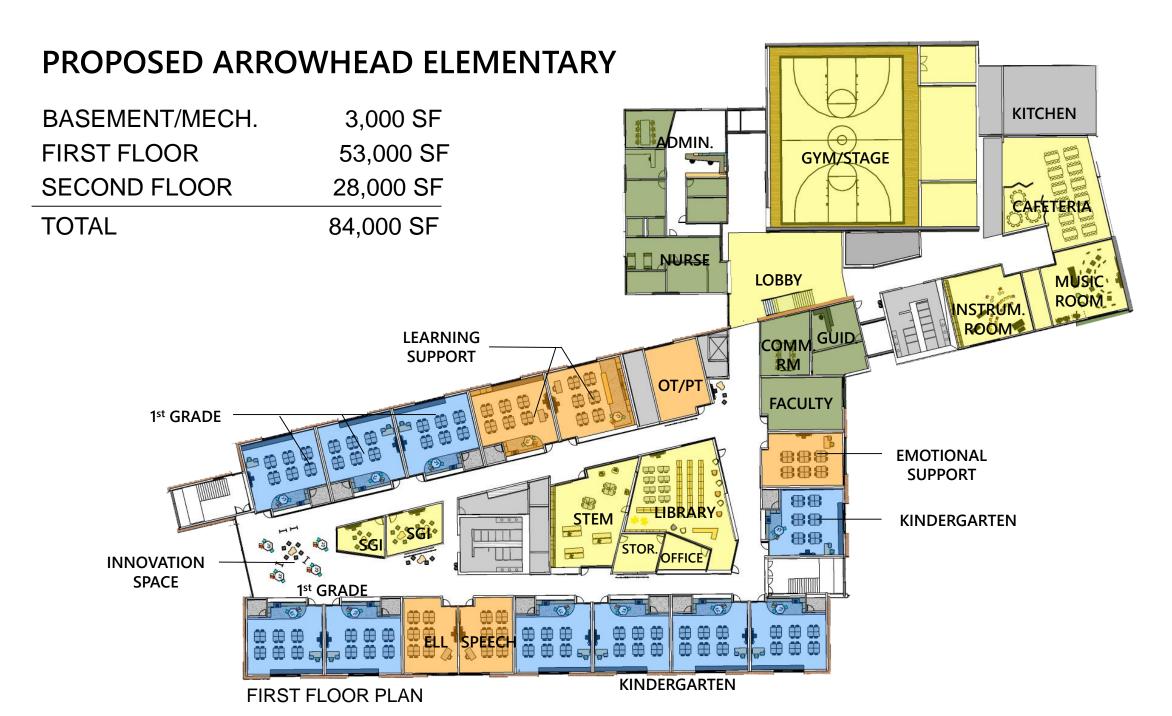
4 SMALL GROUP INSTRUCTION ROOMS, 350 SF 2 INNOVATION SPACES, 850 SF

1 INSTRUMENTAL ROOM, 900 SF 1 MUSIC CLASSROOM, 900 SF STORAGE, 200 SF

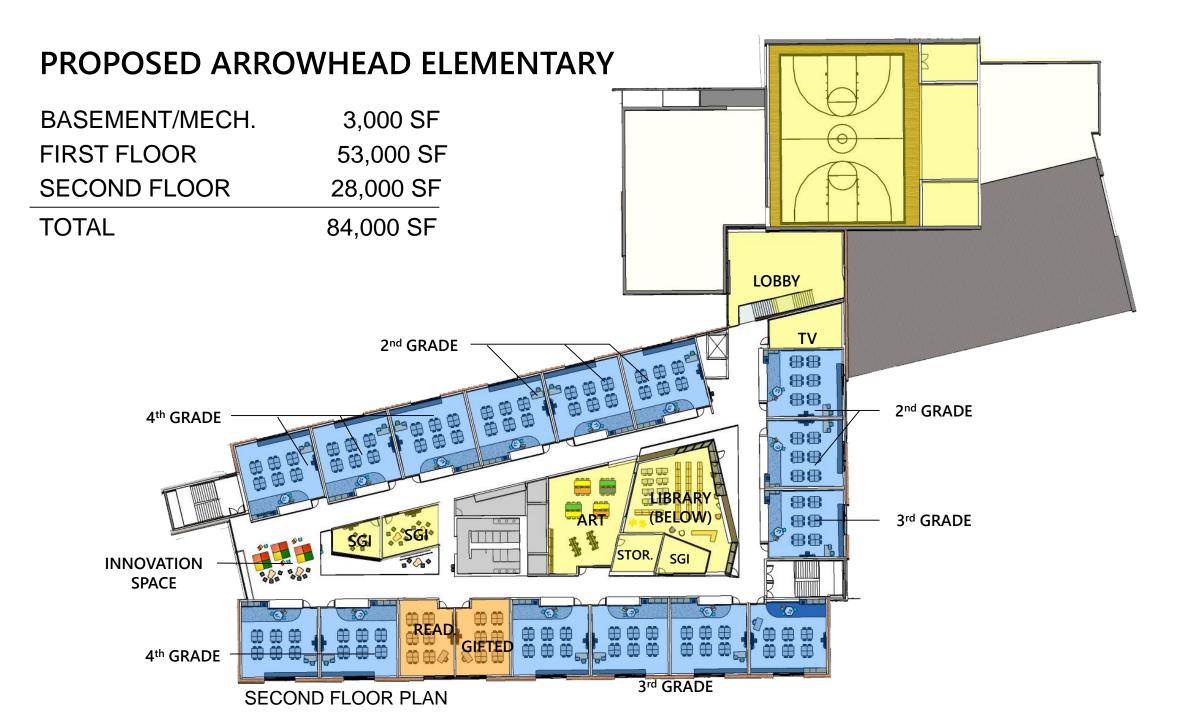
GYM, 6500 SF

CAFETERIA, 2000 SF











## NEW SCHOOL OPTION – CAPACITY 625

Proposed New Construction (84,000sf* @ \$270/sf)			\$22,680,000	
Site work required for new construction (18%)			\$4,082,400	
Demo of existing school building (52,534sf @ \$8/sf)			\$420,272	
Design/Bidding Contingency - 3%			\$815,480	
TOTAL CONSTRUCTION COST			\$27,998,152	
Construction Contingency - 5%				\$1,399,908
Soft Costs - 13% (Fees, Permits, etc.)				\$3,639,760
Budget: FF&E Allowance (\$1200/student)				\$750,000
	TOTAL PROJECT COST			\$33,787,820

<sup>\*</sup>REDUCED SOFT COSTS FROM 15% TO 13%





- BOARD APPROVAL TO MOVE TO DESIGN DEVELOPMENT PHASE
- PARENT & PUBLIC MEETINGS
- DEVELOP DETAILED COST ESTIMATE FOR ALL BUILDING TRADES
- ACT 34 HEARING
- FIRST SUBMITTAL TO TOWNSHIP FOR PLANNING APPROVAL
- FIRST SUBMITTAL TO STATE FOR ENVIRONMENTAL APPROVAL



## Timeline.....



• JANUARY – APRIL TO COMPLETE DESIGN DEVELOPMENT

- BOARD PRESENTATION MAY
  - APPROVAL TO COMPLETE CONSTRUCTION DOCUMENTATION

OUT TO BID AUGUST 2020

START CONSTRUCTION NOV. '20

OPEN SCHOOL SUMMER 2022



