



FACILITIES LIFE CYCLE ANALYSIS

Scottsdale Unified School District Governing Board Study Session
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KIVA Elementary School

Construction:

1958 Classrooms, Administration & Cafeteria
1964 Classrooms & Library
1971 Music
2002 minor additions

Area:

Site: 849,420 sf = **19.5 acres**
Streets adjacent N & S, Residential W & Church E

Building: **63,091 gross sf** = 7.4% site coverage

2016 100ADM Student Occupancy:
PreK @ **23** students + K-5 @ **490** students = **513** total

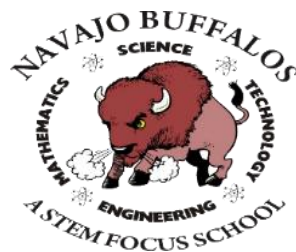
Facility Life Cycle Analysis

Architectural & Structural:

low volume, sloped roof, exterior circulation,
non load bearing common (red) brick, double wythe,
clerestory glazed & hollow metal exterior doors,
steel columns & steel rigid frame beams,
wood roof decking and exposed soffits,
concrete slab on grade, interior wood framing,
vaulted interior ceilings (original) & gypsum partitions

Characteristics:

fields are heavily used by community recreation
longitudinal axis North-South- limited frontage
exterior ground mounted classroom hvac units,
SUSD highest utility cost/sf school campus
2015 utility costs = \$2.50/sf



NAVAJO Elementary School

Construction:

1960 Classrooms, Administration & Cafeteria

1971 Classrooms, Music & Library

2002 minor additions

Area:

Site: 577,605 sf = **13.26 acres**

Residential adjacent N & E, Streets adjacent S & W

Building: **78,106 gross sf** = 13.5% site coverage

2016 100ADM Student Occupancy:

PreK @ **38** students + K-5 @ **367** students = **405** total

Facility Life Cycle Analysis

Architectural & Structural:

low volume, sloped roof, interior corridor circulation, non load bearing common (red) brick, double wythe, clerestory glazed & hollow metal exterior doors, concrete columns & concrete rigid frame beams, concrete precast hollow core roof deck planks, concrete slab on grade, interior wood framing, vaulted interior ceilings (original) & gypsum partitions

Characteristics:

adjacent to City of Scottsdale community park
longitudinal axis East-West along Camelback Rd
only SUSD "brick" campus with interior corridors,
2015 utility costs = \$1.34/sf



HOPI Elementary School

Construction:

1960 Classrooms, Administration & Cafeteria
1971 Music
1975 Science & Library
2001 Multipurpose

Area:

Site: 503,118 sf = **11.5 acres**

Residential adjacent N & E, Streets adjacent S & W

Building: **63,649 gross sf** = 12.6% site coverage

2016 100ADM Student Occupancy:

PreK @ **0** students + K-5 @ **840** students = **840** total

Facility Life Cycle Analysis

Architectural & Structural:

low volume, sloped roof, exterior circulation,
non load bearing common (red) brick double wythe,
clerestory glazed & hollow metal exterior doors,
steel columns & steel rigid frame beams,
wood roof decking & exposed soffits,
concrete slab on grade, interior wood framing,
vaulted interior ceilings (original) & gypsum partitions

Characteristics:

beautiful site below Camelback Mountain
longitudinal axis North-South with much gradient
parking-car line & bus lane is a very difficult issue
lower grade buildings flood when it rains heavy
2015 utility costs = \$1.54/sf



HOHOKAM Elementary School



Construction:

1961 Classrooms, Administration & Cafeteria

1971 Classrooms, Music & Library

2002 minor additions

Area:

Site: 774,061 sf = **17.7 acres**

Streets adjacent N & W, Alley adjacent E & S

Building: **77,030 gross sf** = 9.9% site coverage

2016 100ADM Student Occupancy:

PreK @ **79** students + K-5 @ **432** students = **511** total

Facility Life Cycle Analysis

Architectural & Structural:

low volume, sloped roof, exterior circulation, load bearing common (red) brick, double wythe, clerestory glazed & hollow metal exterior doors, masonry & steel columns, glue laminated beams, tongue & groove wood decking (original shingled), concrete slab on grade, interior wood framing, vaulted interior ceilings (original) & plaster partitions

Characteristics:

classroom buildings frame turf courtyards
administration facilities at center of campus
Interior galvanized plumbing under floors
separated chillers & original hvac equipment
2015 utility costs = \$1.35/sf