



FACILITIES LIFE CYCLE ANALYSIS

Scottsdale Unified School District Governing Board Study Session
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PUBELO Elementary School

Construction:

1971 Classrooms, Administration & Cafeteria
2002 Multipurpose
2002 minor additions

Area:

Site: 679,536 sf = **15.6 acres**

Streets adjacent E & W, Residential E & Saguaro HS-S

Building: **76,261 gross sf** = 11.22 % site coverage

2016 100ADM Student Occupancy:

PreK @ **88** students + K-5 @ **498** students = **586** total



Facility Life Cycle Analysis

Architectural & Structural:

low volume, low sloped roof, exterior circulation, load bearing, 8-4-16 slumped concrete masonry units, parapets, steel roof joists, columns and steel roof deck, hollow metal exterior doors with side and transom lights, concrete slab on grade, interior wood framing, gypsum partitions, suspended ceiling grid and panels, above ceiling hvac fan coil units.

Characteristics:

short length of accessible public street frontage
buildings constructed at grade & frequently flood
fully adjacent to Saguaro High School athletic fields
car line and bus lane are confused and congested
2015 utility costs = \$1.50/sf



PIMA Elementary School

Construction:

1959 Classrooms & Administration
1961 Cafeteria
1964 Classrooms
1971 Music & Classrooms

Area:

Site: 809,344 sf = **18.5 acres**

Streets adjacent S, Residential N, E-alley, W

Building: **70,107 gross sf** = 8.6 % site coverage

2016 100ADM Student Occupancy:

PreK @ **19** students + K-5 @ **531** students = **550** total

Facility Life Cycle Analysis

Architectural & Structural:

low volume, sloped roof, exterior circulation, load bearing 8-8-16 concrete masonry units, clerestory glazed & hollow metal exterior doors, masonry columns & wood roof structure, steel rigid frame beams & wood roof structure at cafeteria, concrete slab on grade, interior wood framing, suspended interior ceilings & gypsum partitions

Characteristics:

buildings constructed at grade & frequently flood south bound and north bound Granit Reef Road traffic- both are dead ended at Pima Elementary School. car line and bus lane are congested, parking is difficult
2015 utility costs = \$1.47/sf



CHEROKEE Elementary School



Facility Life Cycle Analysis

Construction:

1974 Classrooms, Administration, Cafeteria & Music

1994 Classrooms

2001 Multipurpose

Area:

Site: 845,935 sf = **19.4 acres**

Streets adjacent W, Residential adjacent N, E & S

Building: **80,261 gross sf** = 9.4 % site coverage

2016 100ADM Student Occupancy:

PreK @ **105** students + K-5 @ **554** students = **659** total

Architectural & Structural:

low volume, low sloped roof, exterior circulation,
load bearing cast-in-place concrete walls
parapets, steel roof joists, columns and steel roof deck,
hollow metal exterior doors, no exterior windows
concrete slab on grade, interior wood framing,
gypsum partitions, suspended ceiling grid and panels,
curbed roof top hvac units

Characteristics:

hexagonal classroom buildings-trapezoid classrooms
beautiful mountain view site within residential area
classroom building orientations create security difficulty
learning environments have no daylight, windowless
2015 utility costs = \$1.51/sf



68th STREET CAMPUS (Tonalea)



Construction:

1958 Classrooms, Administration, Cafeteria

1961 Classrooms

1964 Classrooms (5,702 sf upper level)

1971 Library

Area:

Site: 388,555 sf = **8.9 acres**

Streets adjacent N & W, Residential adjacent E & S

Building: **65,556 gross sf** = 15.4 % site coverage

2016 100ADM Tonalea (miller) Student Occupancy:

PreK @ **39** students + K-5 @ **336** students = **375** total

Facility Life Cycle Analysis

Architectural & Structural:

Low & upper volume, sloped roof, exterior circulation, non & load bearing 8-8-16 concrete masonry units clerestory glazed & hollow metal exterior doors, Glue laminated beam rigid frame @ cafeteria concrete tees' upper floor level, concrete precast - hollow core roof deck planks, concrete slab on grade, interior wood framing, vaulted interior ceilings (original) & gypsum partitions

Characteristics:

buildings and site are unoccupied
central plant chiller original equipment
Site access, parking and bus lane well defined
Well portioned site on E-W longitudinal axis
2015 utility costs = N/A