

2014 Exhibition of School Planning and Architecture

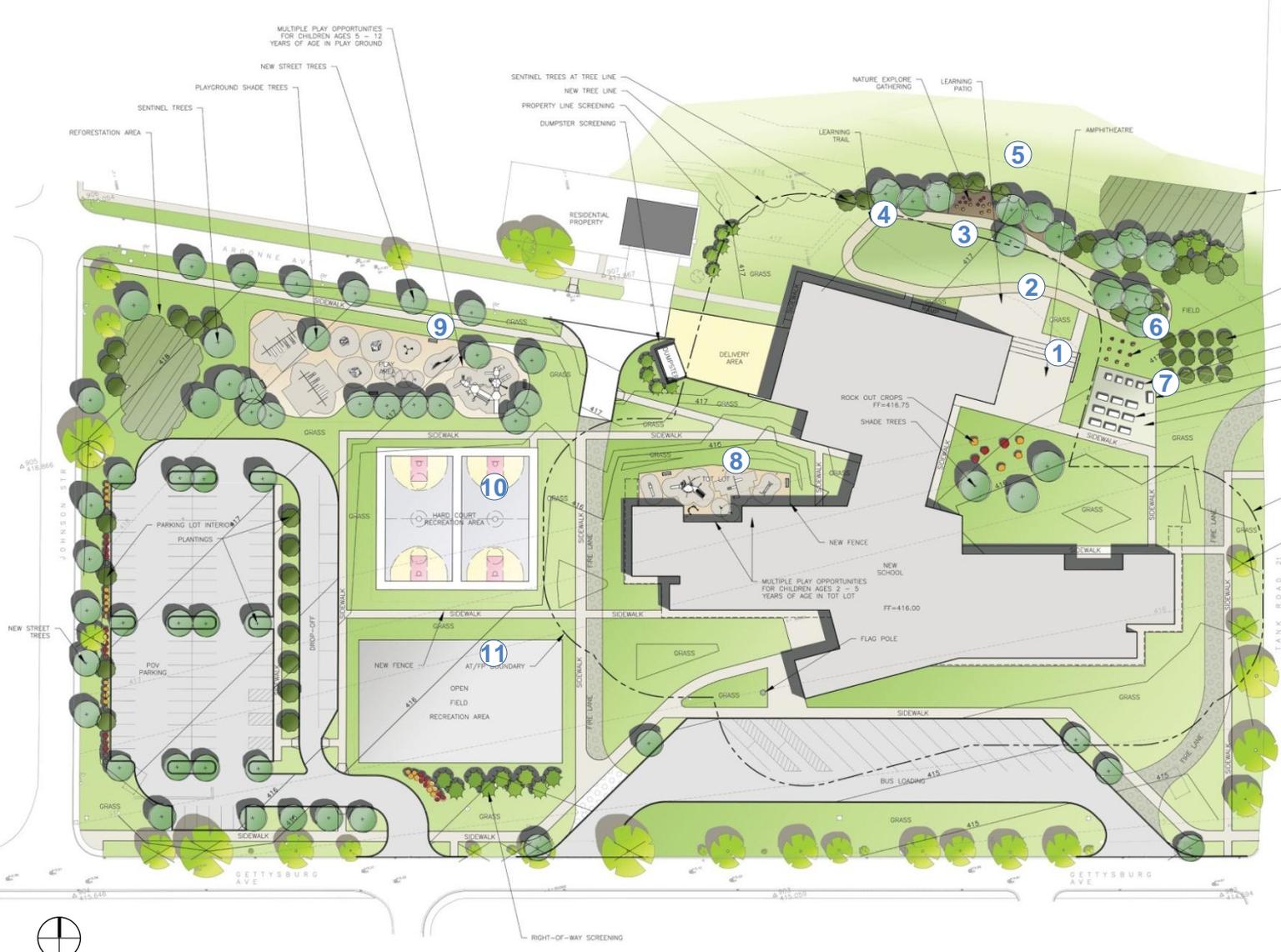
Grafenwoehr Elementary School

DoDEA

Grafenwoehr | Bavaria, Germany



SCHOOL ENTRY



- 1 Amphitheatre**
Located outside the music room for outdoor music or performance
- 2 Outdoor Studio**
A structured outdoor space which accommodates any learning studio activity
- 3 Project Lawn**
A maintained turf area dedicated to outdoor learning, gathering, and activities
- 4 Learning Trail**
A loop trail which connects the outdoor learning spaces
- 5 Nature Explore: Gathering**
A naturalized gathering area with mulch and tree cookies
- 6 Nature Explore: Building**
A grid of wood timber on top of which an annual school-wide building project is constructed to build community and identity for the school
- 7 Life Sciences Garden**
A garden and animal area for curricular integration
- 8 'Tot' Lot**
Pre-K and Kindergarten play area
- 9 Equipment Play**
Play equipment for each age group
- 10 Court Play**
Sports and play courts
- 11 Turf Play**
Sports and play fields



MULTIPURPOSE ROOM

The Scales of Community:

- The military connected family community
- Grafenwoehr Elementary Community
- Learning neighborhood Community

"Our children exist simultaneously in many communities. Creating exceptional spaces where those different communities come together builds confidence and resilience within them, and that makes all the difference."

Parent, Grafenwoehr Elementary
Visioning session



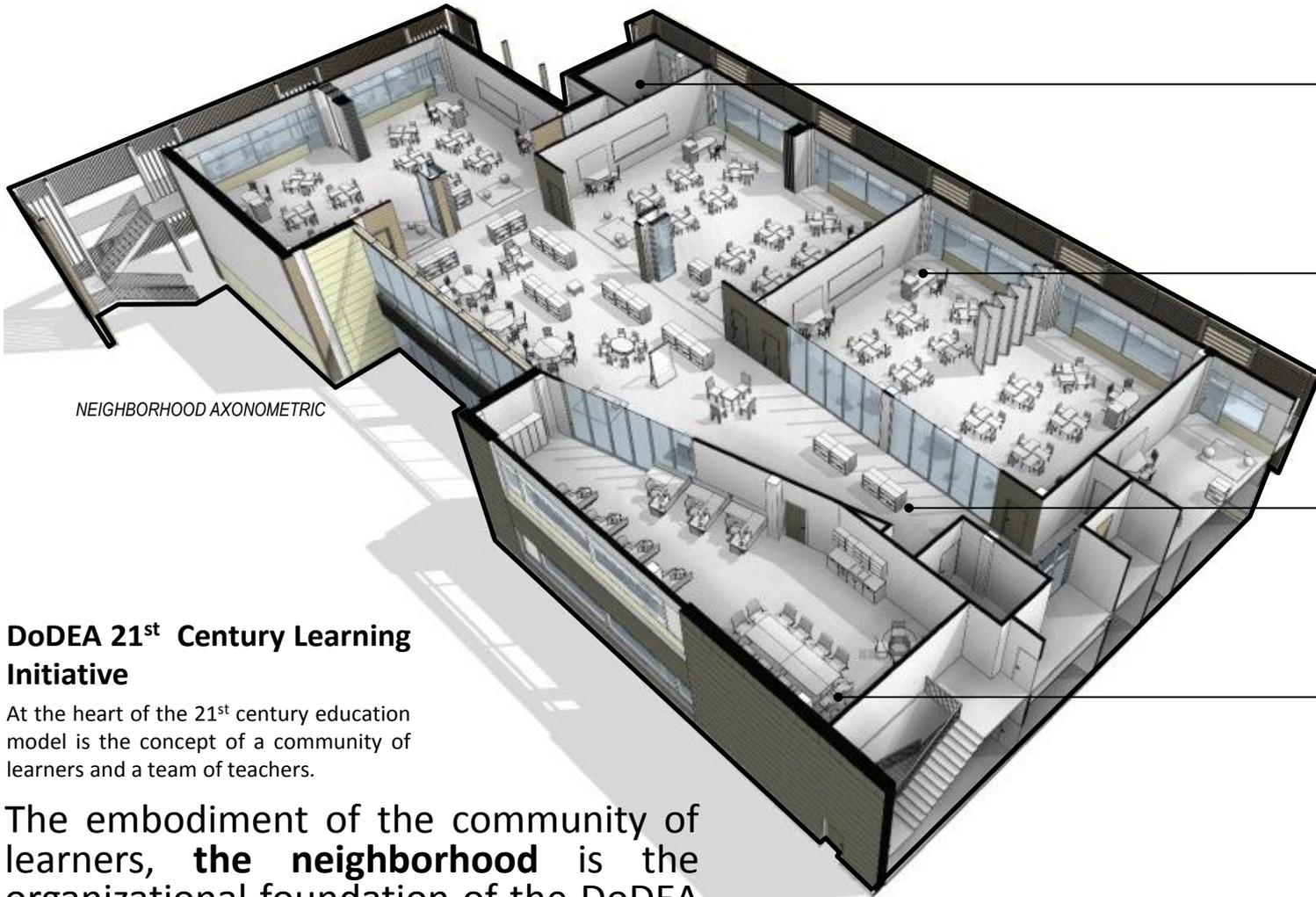
COMMUNITY ENTRY & DROP-OFF

A Community of Inclusion

“A school should do whatever cannot be done at home.”

- Frank Locker

With space community use space designed in and a welcoming residential scale, the new school creates space for a community to rediscover itself.



NEIGHBORHOOD AXONOMETRIC

Small Group and 1:1 Rooms

Additional shared space for student interventions & support

Learning Studios

The equivalent of the classroom, yet shared among teachers and students. Operable partitions allow the paired studios to be combined, and allow any studio to open up to the Learning Hub.

Learning Hub

The open and flexible breakout space shared among the community for meetings, presentations, and project based learning.

Teacher Collaboration

Dedicated space for teachers to promote cross disciplinary collaboration.

DoDEA 21st Century Learning Initiative

At the heart of the 21st century education model is the concept of a community of learners and a team of teachers.

The embodiment of the community of learners, **the neighborhood** is the organizational foundation of the DoDEA 21st century school.

It is comprised of *Learning Studios, Learning Hubs, Group and 1:1 Rooms, and Teacher Collaboration Spaces.*



THE "DEN" EDUCATION SPACE

Student success designed into every space -
Student-Centered
Impactful
Intuitive

"Looking back on their experience as a DoDEA student, I want them to remember being a 'Grizzly', and know that it was an important time in their lives."

Dr. K, Principal



EXTERIOR COURTYARD

Outdoor Learning –

- Augmenting the learning space that already exists
- Authentic Learning
- Attention Recovery

“Creating opportunities for teachers and students to use the outdoors capitalizes on two found assets: the exterior of the building as a space-maker and the natural environment as a steward of wonder.”



OUTDOOR PLAYSPACES

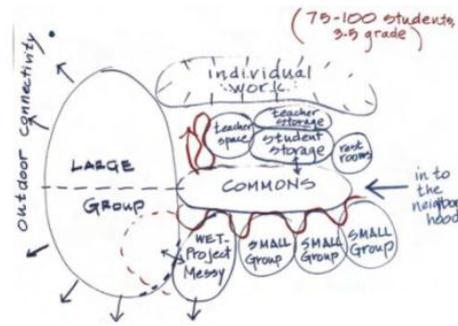


COLLABORATIVE STAKEHOLDER DESIGN SESSION

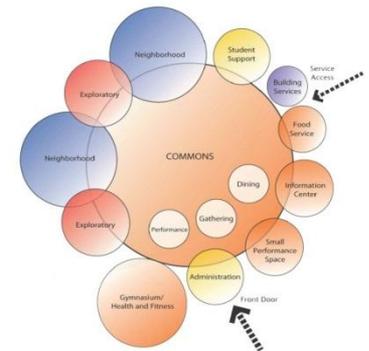
The first step in the planning process was the work done with DoDEA to create their 21st Century Education Facilities Specification. Based on our experience and success with DoDEA we were invited to collaborate in the creation of their new guiding document

Through a series of workshops, we engaged in a discovery process to get at the heart of what 21st Century Education should be and determine what is the facility response to that need.

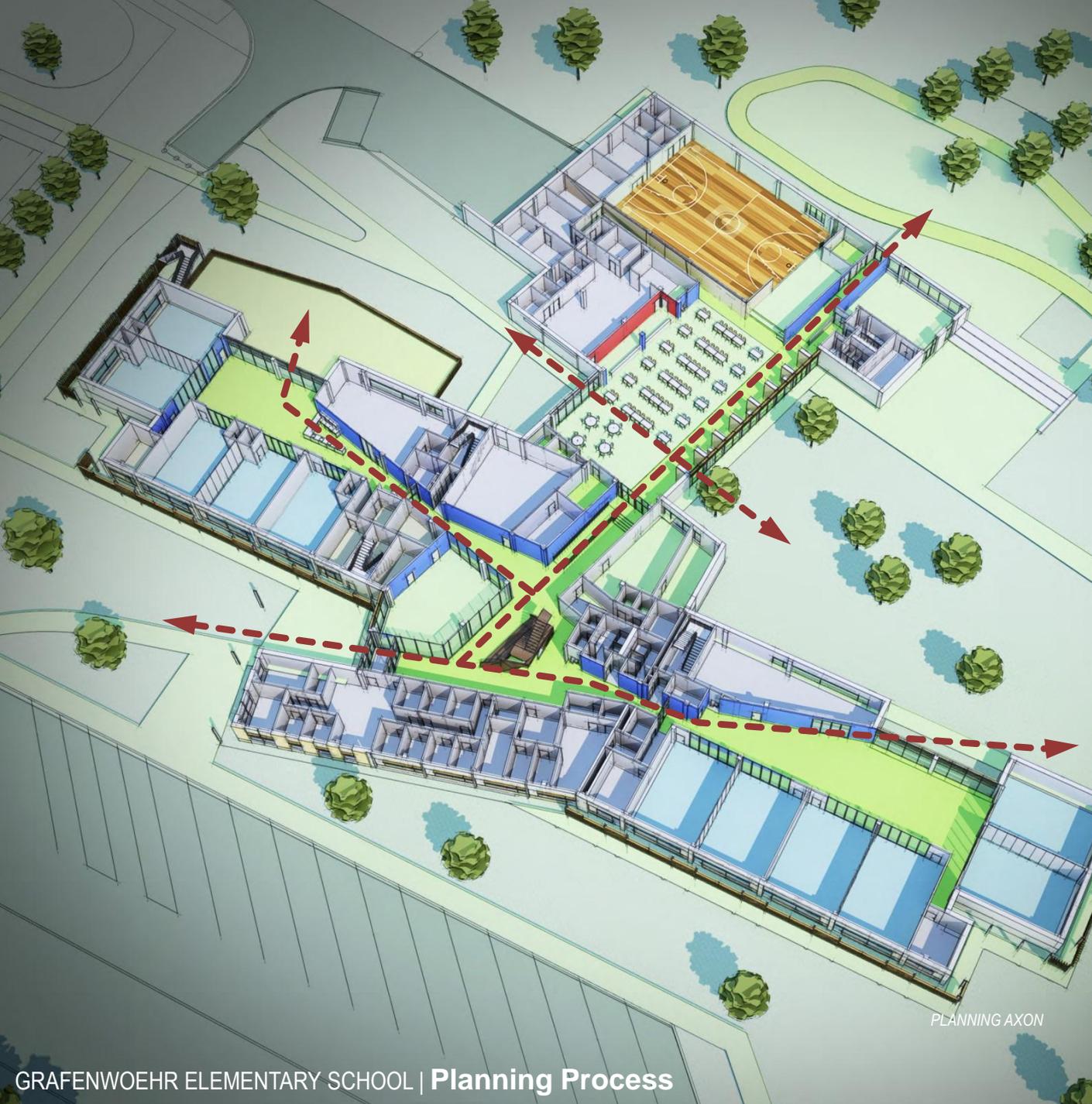
Once the aspirational character of the school took shape, the working group then helped distill the fundamental spaces needed. The result was the **DoDEA 21st Century Educational Facility Specification** and even more importantly, the DoDEA Design Center, a collaborative group of planning and design professionals sharing best practices and advise on fine tuning of the specifications.



ROUGH PLANNING DIAGRAM



21ST CENTURY EDUCATION SPECIFICATION DIAGRAM

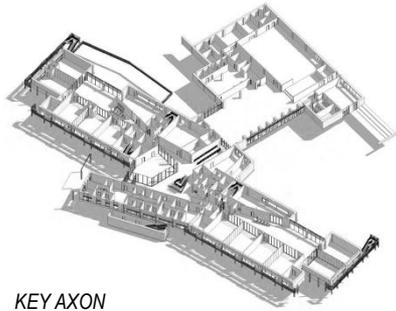


PLANNING AXON

A key aspect of the planning process was in considering the uniqueness of the Graf student, where students spend on average two-years at the school before relocating to another military base. Acknowledging that place plays an important role in memory of our childhoods, the students would be best served by a **design which was both impactful and intuitive.**

Our visioning process with the school built consensus around the Mascot, the Grizzly Bear, as being important to the identity of the school, and therefore was seen as the underpinning for the interior concept. The main north-south axis was conceived of as **'the River'**, a metaphoric and spatial connector of all aspect of the students life at school. At one end of the river, within the academic spaces, was **'the Den'**, symbolizing a period of nurtured learning. The Den sits central to all the 'specials' programs near the Neighborhoods. At the other end of the River, the students pass through the Multi-purpose room, connecting to the main communal functions of the school - eating, gathering, performance - and continue out to the outdoors, where all the outdoor learning functions are organized.

The need for an intuitive layout was satisfied through the use of view corridors which were continuously connecting the interior with the exterior. Each circulation route was punctuated either with the Den or an exterior view. This ensured that even students arriving mid-year would feel at home much more quickly.



KEY AXON

- Administration
- Commons
- Gym/Athletics
- Academic Support
- Learning Studios
- Student Services
- Specials
- Building Services



Submitting Firm :	EwingCole
Project Role	Planner / Designer
Project Contact	Stephen Gastright, AIA
Title	Educational Planner / Designer
Address	100 N. 6 th Street
City, State or Province, Country	Philadelphia, PA 19106
Phone	215. 625.4162

Joint Partner Firm:	Onyx
Project Role	Architecture
Project Contact	Enrique Villa
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Phone	703.894.1955

Project Name	Grafenwoehr Elementary School
City	Grafenwoehr, Bavaria, Germany
State	
District Name	DoDEA
Supt/President	Eric Lipowicz / Elizabeth Dunham
Occupancy Date	9/2018
Grades Housed	PK-5
Capacity(Students)	400
Site Size (acres)	11 acres
Gross Area (sq. ft.)	93,225
Per Occupant(pupil)	215
gross/net please indicate	93,225 / 65,651
Design and Build?	
If yes, Total Cost:	
Includes:	
If no,	
Site Development:	\$5.196 M
Building Construction:	\$21.942 M
Fixed Equipment:	\$300,000
Other: Furn / IT	\$1.46 M
Total:	\$27.138 M