
program visioning small group activity
Opportunities - What would you like to do that you can't?
Visioning - What spaces at your school do not function well for their program now...or future potential?

2.1 | INTRODUCTION

Planning & Considerations
Below is a listing of planning assumptions that LPA developed together with the District and local community stakeholders to guide the Facilities Master Plan process and to develop the proposed facilities infrastructure improvement recommendations at the District's school campuses and program support sites.

Vision Alignment
- Improvements proposed have been developed in response to the Draft District Pathways 2020 - strategic goals, vision and beliefs statements.
- Board Goals / Budget Priorities 2013-2016 have been utilized to confirm master plan solutions and scopes of work proposed.
- Existing spaces modernization should be future proofed in order to support the educational goals, functional requirements and future flexibility of the programs they have been designed to house.

Stakeholder Engaged
- Input from a large variety of District staff, school site, parent and community groups has been solicited to develop the master plan.
- All stakeholder activities were structured in a transparent manner to encourage the active participation of all individuals.
- Engagement strategies included formal FMP and school site committee meetings, staff questionnaires, program focus group interviews, parent meetings and community townhalls,

Fiscally Responsive
- Development of project budgets inclusive of all hard construction and project soft costs in order to provide a total picture of the District facilities improvement needs.
- Division of the cost estimates (calculated in 2014$ without escalation) into (15) scope categories to allow future prioritization scenarios to be developed that align work proposed with potential dollars available to implement the program - to "*deliver the promise".*

Communication and Technology
- All materials prepared by the LPA team will be delivered to the Tahoe Truckee Unified School District in both hard copy and electronic format to enable future public outreach and communication of Facilities Master Plan vision to the community at large.

Common Program Themes
The following is a list of program themes that were discussed by the Facilities Master Plan committee during the development of the Guiding Principles and educational Program Standards for the proposed facilities improvement program. These themes were explored by the committee within the primary overall goal of the District, to maintain the high quality of educational programs in the District. These themes are explored further in section 4.4 Educational Program Vision of this Facilities Master Plan document.

Tahoe Truckee Community

Flexible + Agile

Enhanced Technology

Student Collaboration

Faculty Collaboration

Hands on Learning

Portable to Permanent

2.2 | FMP GUIDING PRINCIPLES

Seven Guiding Principles were created to help align the development of the Facilities Master Planning strategies with the over-arching mission of the Tahoe Truckee Unified School District to create an environment of "Pathways to Success." The visioning process allowed FMP committee to engage in conversation about the current challenges and long-term goals of the District, and how TTUSD schools might best support the learning experience moving forward. The result was the identification of fundamental values alongside a vision of possibilities for future school designs and improvements.



Envisioning
A genuine and transparent process that listens and responds to the stakeholders voice to address high priority needs.



Delivering
Welcoming safe and secure schools as Community Hubs that maximize opportunities for joint use and partnership linkages.



Respecting
The diverse needs of the Tahoe Truckee Unified School District's distinct local communities.



Promoting
Development of timeless, easily maintained, energy efficient and sustainable facilities with a long-term view and good stewardship of limited resources.



Creating
Flexible, dynamic, modern, technology-forward, student centered spaces adaptable to future student learning and teaching needs.



Building
Schools and culture that promote and model physical health, well being and sustainability in recognition of opportunities presented by the unique local natural environmental resources.



Encouraging
Opportunities for development of the Whole Child academic, arts, athletics and social skills.

2.3 | SCOPE OF WORK CATEGORIES

The Facilities Master Plan Committee, along with the master planning team, generated 15 project scope categories. These scope of work categories break up the overall needs / scopes of work, into smaller 'bite sized', sub-categories of work that are more manageable, to allow for ease of prioritization and comparison between sites so that we can begin to establish parity. The categories also develop a basis for cost estimate, and allow for the ability to run future program scenariors as funding becomes available.



1. Modernize & Reconfigure Existing Kindergarten, Classroom & Lab Buildings

Scopes in this category, include repair, upgrade or replacement of roofs, walls, windows, doors and hardware, floors and ceiling. In addition, scopes of work may include patching and painting of interior / exterior, exterior facade enhancement and structural roof upgrades to address the snow load.



2. Existing Building System & Toilets

Scopes in this section may include but are not limited to:

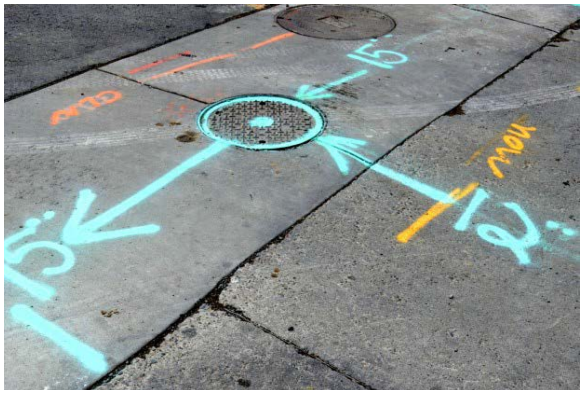
- HVAC system upgrades
- Lighting upgrades
- Electrical upgrades
- Plumbing system upgrades
- Modernization / reconfiguration / expansion of restroom facilities
- Energy efficient building systems and controls (e.g. EMS)
- Addition of sinks to classrooms



3. Site Utilities
(for entire campus and site)

Scopes in this section may include but are not limited to:

- Updated gas service lines
- Updated sewer service lines
- Updated water service lines
- Updated electrical mains and distribution
- Updated storm drainage system



2.3 | SCOPE OF WORK CATEGORIES



4. New Construction Classrooms

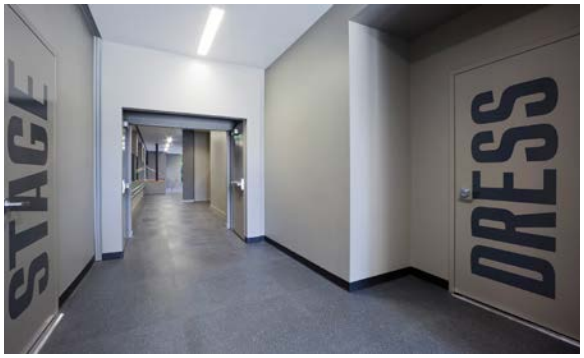
As portable classroom buildings continue to age and near the end of their life cycles, the Facilities Master Plans consider options to replace portable buildings with new, permanent construction. The master plan also includes the addition of new classrooms to reflect forecasted increases in student enrollment. Scopes of work in this category include the following:

- Removal of portable classrooms
- New or replacement classrooms, including associated site work improvements



5. New Construction Science & Career Tech Ed.

To better support the programs in Science, electives, and Career Technical Education, the Master Plans consider options to modernize existing, reconfigure, and/or provide new facilities. Scope of work may also include a new greenhouse to support the Science curriculum.



6. Performing Arts Improvements

Scopes of work in this category include modernization and/or reconfiguration of existing spaces and new spaces to better support the Performing Arts program and the areas of Drama and Music as well as associated site improvements.







2.3 | SCOPE OF WORK CATEGORIES

7. MPR / Food Service Improvements

Scopes of work in this category include addition and/or reconfiguration of the multi-purpose room at the Elementary and Middle Schools, to support the needs of the music and performing arts programs. This category also includes reconfiguration of food service facilities and any necessary lunch shelter and trash enclosure additions. Scopes of work include associated site improvements.

8. Physical Education Improvements

Scopes of work in this category may include but are not limited to:

- Modernization of MS and HS gymnasiums
- New MS / HS shower/ locker rooms
- MS / HS Fitness Labs
- Associated site work and site improvements

9. Administration & District Support Facilities

Scopes of work in this category may include but are not limited to:

- Modernization, reconfiguration, or addition of new Administration spaces
- New M&O warehouse facility
- New Bus Garage at the Transportation facility
- Associated site work and site improvements
- Repair of roof on existing facilities













2.3 | SCOPE OF WORK CATEGORIES



10. Student Collaboration & Support Services

Scope in this section may include but are not limited to:

- Modernization or new ES Library / Media Center spaces
- Reconfiguration or new MS / HS Library / Student Union spaces
- Modernization or new Student Services facilities
- Modernization and/or reconfiguration of the Learning / Designated Instructional Support (D.I.S.) Center
- Associated sitework



11. Safety & Security

Scope of work in this category targets improvements to student / bus drop-off, teacher and parent parking, pedestrian circulation, and campus fencing / perimeter security issues. The master plan takes into consideration improvements to traffic flow and the safety of vehicular and pedestrian circulation. Scopes of work in this category also include:

- Concrete walk and paving
- Covered entrances
- Exterior lighting
- Safety locks at classroom doors
- Signage to improve wayfinding
- Fencing with controlled campus entrances
- Fire safety equipment, emergency lighting and communication systems
- Security cameras and systems



12. Outdoor Learning

The scope of work in this cateogry focuses on improvements to the outdoor spaces for exterior main student gathering and courtyard spaces so that every space can be a learning space.







2.3 | SCOPE OF WORK CATEGORIES

13. Exterior Play Spaces, Fields, & Hard Courts

This category addresses improvements to playfields and asphalt hard courts to meet the needs of all students. Scopes include but are not limited to:

- Kindergarten / ES play yard improvements
- New play apparatus
- Hardcourts - new and improvements
- Repair / replace playfields
- New high school synthetic track and field and stadium with bleachers
- Fencing

14. 21st Century Learning, Classroom Flexibility

Includes an allowance per teaching station for new flexible furnishings such as tables, desks, chairs and shelving to maximize flexibility and allow multiple classroom configurations that are more conducive to supporting 21st Century learning.

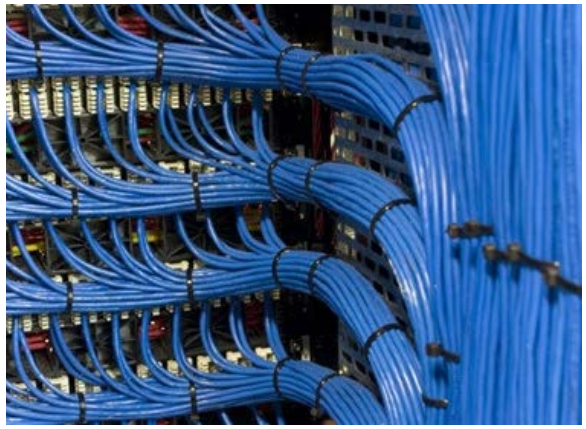
15. Technology Infrastructure

Technology infrastructure upgrades to increase campus connectivity (WiFi and bandwidth) to support the educational program. Scopes in this section may include but are not limited to:

- Data cabling backbone infrastructure and switches for desktop video
- Data drops and/or wireless networking and wireless access points
- Data rooms with environmental control
- Classroom technology package













2.4 DEMOGRAPHICS AND CAPACITY ANALYSIS

The Demographic Study 2013-2014 was prepared for the Tahoe Truckee Unified School District by SchoolWorks, Inc. The full study is attached within this Facilities Master Plan in Appendix Section 6.3 as a separate document. It examines the student enrollment projections for the District from 2013/14 to 2019/20 school years.

The report utilizes the latest data available to understand the historic trends in births, enrollment and new developments, By analyzing the historic data and trends SchoolWorks has created enrollment projections by projecting those trends into the future. These projections assume that the transfers of students between schools remain constant. If changes in facilities, schedules, programs or policies are made then the patterns may be impacted. In terms of development impacts they have assumed the number of housing units that will be occupied each year will continue to increase as the economy continues to improve.

A full summary of the methodology utilized in the demographic analysis is included in the study document located within Appendix Section 6.3 of this Facilities Master Plan binder. The charts adjacent and on the following page contain a summary of the projected enrollment between now and 2019/20 school year and the capacities of the District's existing campuses. The data by school site from these chart summaries was used to highlight student housing needs and inform the development of the individual school site master plan proposals.

Enrollment Projection Summary by School

TAHOE TRUCKEE UNIFIED SCHOOL DISTRICT
Enrollment Projection Summary by School

School	Current Enrollment 13/14	14/15	15/16	16/17	17/18	18/19	19/20
Donner Trail Elem	59	59	58	60	59	58	58
Glenshire Elem	533	529	543	528	514	490	471
Kings Beach Elem	374	384	399	398	393	392	396
Tahoe Lake Elem	327	327	333	325	333	337	341
Truckee Elem	550	521	527	515	509	514	503
Elementary Totals	**1,843**	**1,820**	**1,860**	**1,826**	**1,808**	**1,791**	**1,769**
Alder Creek Middle	491	531	544	593	617	650	660
North Tahoe School	407	411	395	412	413	424	427
Middle Totals	**898**	**942**	**939**	**1,005**	**1,030**	**1,074**	**1,087**
North Tahoe High	330	323	327	323	318	322	306
Tahoe Truckee High	638	656	677	683	711	743	794
High Totals	**968**	**979**	**1,004**	**1,006**	**1,029**	**1,065**	**1,100**
Sierra Continuation	32	34	36	37	35	38	37
Cold Stream Alternative	11	12	12	13	12	13	13
Sierra Expeditionary	210	210	210	210	210	210	210
Other Totals	**253**	**256**	**258**	**260**	**257**	**261**	**260**
District Totals	**3,962**	**3,997**	**4,061**	**4,097**	**4,124**	**4,191**	**4,216**
Annual Change		35	64	36	27	67	25

Chart Provided by SchoolWorks. For details see Demographics Report in Appendix

2.4 | CURRENT CAPACITY ANALYSIS

The following is the student loading capacity analysis for existing Tahoe Truckee Unified School District school sites.

Donner Trail Elementary School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	0		0	24	0
K	1		1	24	24
2-5	1		1	28	28
SDC	0		0	12	0
Other	0	0	0	0	0
Total	**2**	**0**	**2**	**NA**	**52**

Tahoe Lake Elementary School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	1		1	24	24
K	3		3	24	72
1-3	8		8	24	192
4-5	2		2	28	56
SDC	1		1	12	12
Other	0	6	6	0	0
Total	**15**	**6**	**21**	**NA**	**356**

Glenshire Elementary School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	1		1	24	24
K	4		4	24	96
1-3	11		11	24	264
4-5	6		6	28	168
SDC	1		1	12	12
Other	0	4	4	0	0
Total	**23**	**4**	**27**	**NA**	**564**

Truckee Elementary School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)*	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	1		1	24	24
K	4		4	24	96
1-3	12		12	24	288
4-5	6		6	28	168
SDC	2		2	12	24
Other	0	8	8	0	0
Total	**25**	**8**	**33**	**NA**	**600**

King Beach Elementary School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	0		0	24	0
K	5		5	24	120
1-3	9		9	24	216
4-5	3		3	28	84
SDC	1		1	12	12
Other	0	8	8	0	0
Total	**18**	**8**	**26**	**NA**	**432**

Alder Creek Middle School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
6	7		7	28	196
7-8	17		17	28	476
SDC	1		1	12	12
Other	0	6	6	0	0
Total	**25**	**6**	**31**	**NA**	**684**

2.4 CURRENT CAPACITY ANALYSIS

North Tahoe School

Grade	Teaching Stations (Per Existing Site Plan)*	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
5	5		5	28	140
6-8	16		16	28	448
SDC	0		0	12	0
Other	0	3	3	0	0
Total	**21**	**3**	**24**	**NA**	**588**

North Tahoe High School

Grade	Teaching Stations (Per Existing Site Plan)*	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)*	Facilities Capacity (Master Plan)
9-12	21		21	27	567
SDC	2		2	12	24
Other	0	3	3	0	0
Total	**23**	**3**	**26**	**NA**	**591**

*Loading Standard at 27 per Teaching Station factors owning classrooms during prep period (averages 32 students/class)

Sierra High Coninuation School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)*	Facilities Capacity (Master Plan)
9-12	3		3	20	60
SDC	0		0	12	0
Other	0	4	4	0	0
Total	**3**	**4**	**7**	**NA**	**60**

*Loading Standard at 20 per Teaching Station is less than comprehensive high school

Note: The number of teaching stations and capacities shown on the above charts match the existing school site diagrams current functional utilization of spaces. Variations may exist with the capacities shown within the SchoolWorks demographic study. These differences are due to the loading of both the Assigned Teaching Stations plus the Non-Teaching Stations in their analysis. Typically Non-Teaching Stations are not loaded with students. Their analysis is focused on potential maximum loading scenario for each campus in the Tahoe Truckee Unified School District.

Tahoe Truckee High School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)*	Facilities Capacity (Master Plan)
9-12	37		37	27	999
SDC	2		2	12	24
Other	0	2	2	0	0
Total	**39**	**2**	**41**	**NA**	**1023**

*Loading Standard at 27 per Teaching Station factors owning classrooms during prep period (averages 32 students/class)

Coldstream Alternative High School

Grade	Teaching Stations (Per Existing Site Plan)*	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
9-12	4		4	20	80
SDC	0		0	12	0
Other (TCPUD)	0	5	5	0	0
Total	**4**	**5**	**9**	**NA**	**80**

*Loading Standard at 20 per Teaching Station is less than comprehensive high school

Sierra Expeditionary Learning School

Grade	Teaching Stations (Per Existing Site Plan)	Non-Teaching Stations (Per Existing Site Plan)	Total Spaces (Per Existing Site Plan)	Loading Standard (teaching Stations Only)	Facilities Capacity (Master Plan)
TK	0		0	24	0
K	1		1	24	24
1-3	3		3	24	72
4-5	2		2	28	56
6-8	3		3	28	84
SDC	0		0	12	0
Other	0	1	1	0	0
Total	**9**	**1**	**10**	**NA**	**236**