

	Current Space Utilization				
Benjamin	Permanent Classrooms	Portables (Owned)	Portables leased more	Temp. Portables leased less than 5	Total
Bubb	(1 - 20)	(P1)	than 5 yrs	yrs (not counted)	
Gross	22	1	0	(8)	23
Less than 700 sf.	0	0	0	0	0
Net	22	1	0	(0)	23

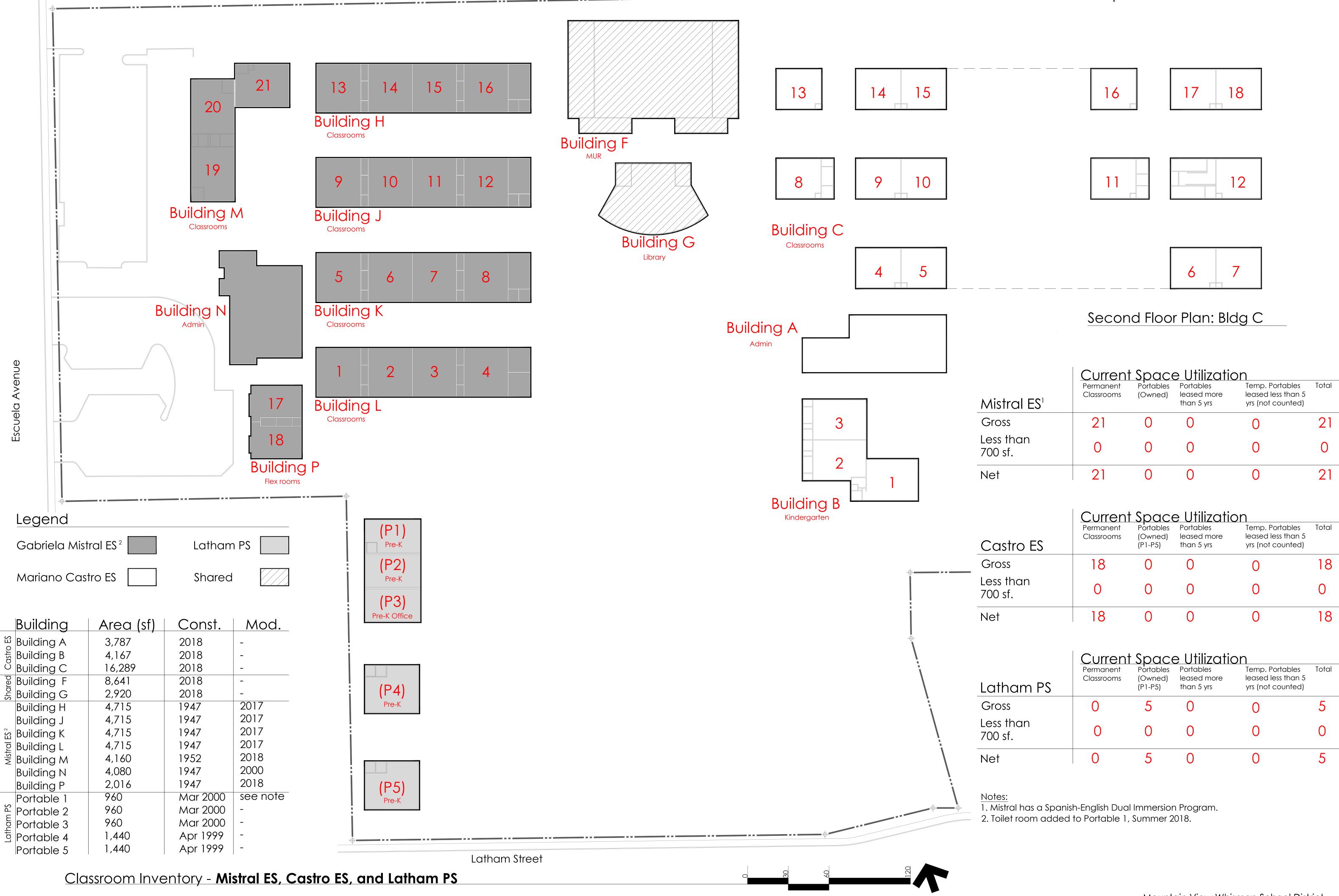
No

1. Room 21 has been leased to YMCA Kids' Place since 2004.

Jnit	Area	Construction	Modernization
Jnit 1	8,335 sf	1953	2018
Jnit 2	2,965	1953	2018
Jnit 3	4,715	1954	2018
Jnit 4	4,715	1954	2018
Jnit 5	4,715	1958	2018
Jnit 6	5,222	1965	2018
MUR	6,288	2018	n/a

Mountain View Whisman School District
Facility Funding

Classroom Inventory - Benjamin Bubb Elementary School

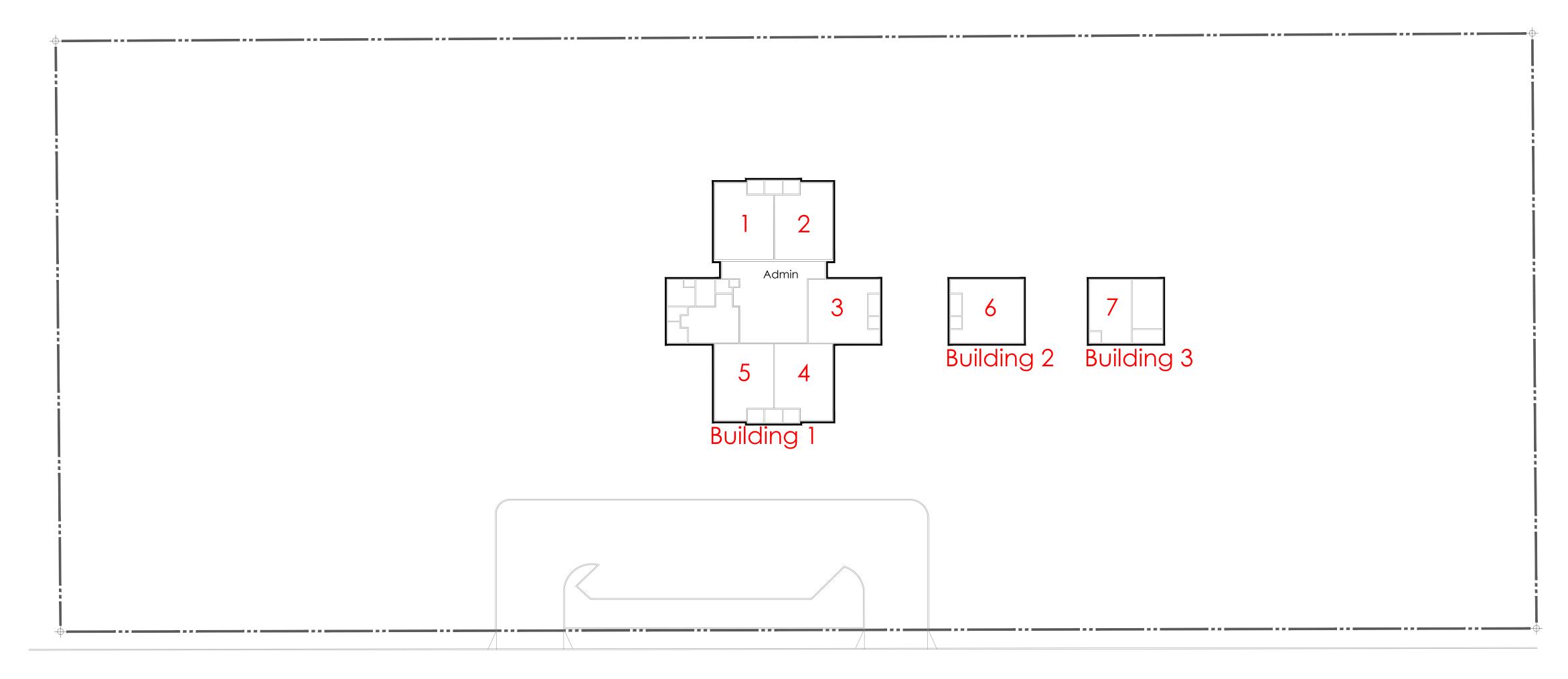


Mountain View Whisman School District
Facility Funding

OJ Cooper	Current Permanent Classrooms (1 - 6)	Portables (Owned)	Portables leased more than 5 yrs	Temp. Portables leased less than 5 yrs (not counted)	Total
Gross	6	0	0	0	6
Less than 700 sf.	-1	0	0	0	0
Net	5	0	0	0	6

 OJ Cooper Campus has been leased to Primary Plus for day care for more than 25 years.
 Building 3 has been divided into rooms smaller than 700 square feet. Room 7 is used as a nursery and has been included in the count.

Building	Area	Construction	Modernization
Building 1	7,171 sf	1962	
Building 2	986	1962	
Building 3	885	1962	

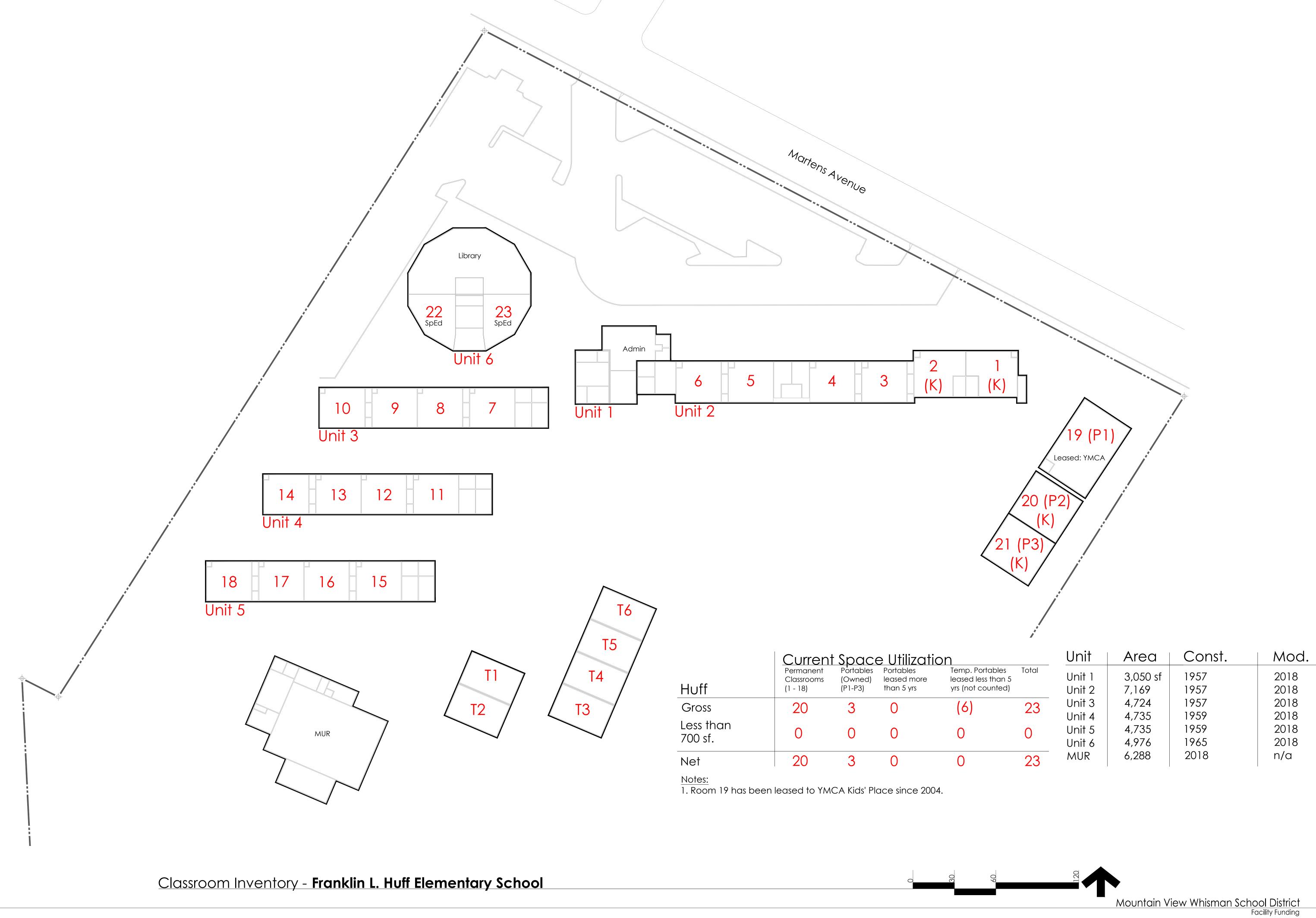


Eunice Avenue

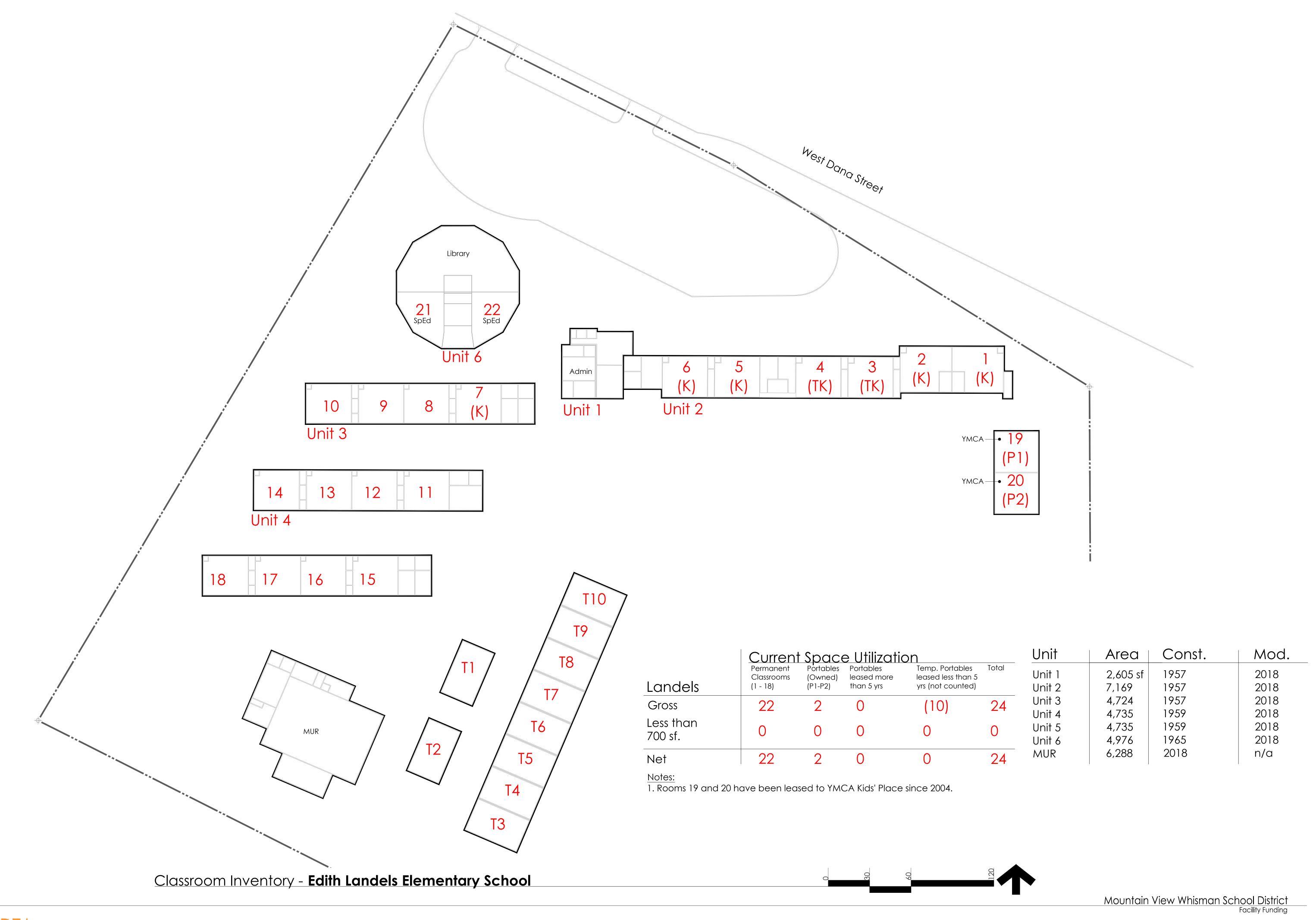
Classroom Inventory - O.J. Cooper Elementary School
LEASED Action Day Primary Plus

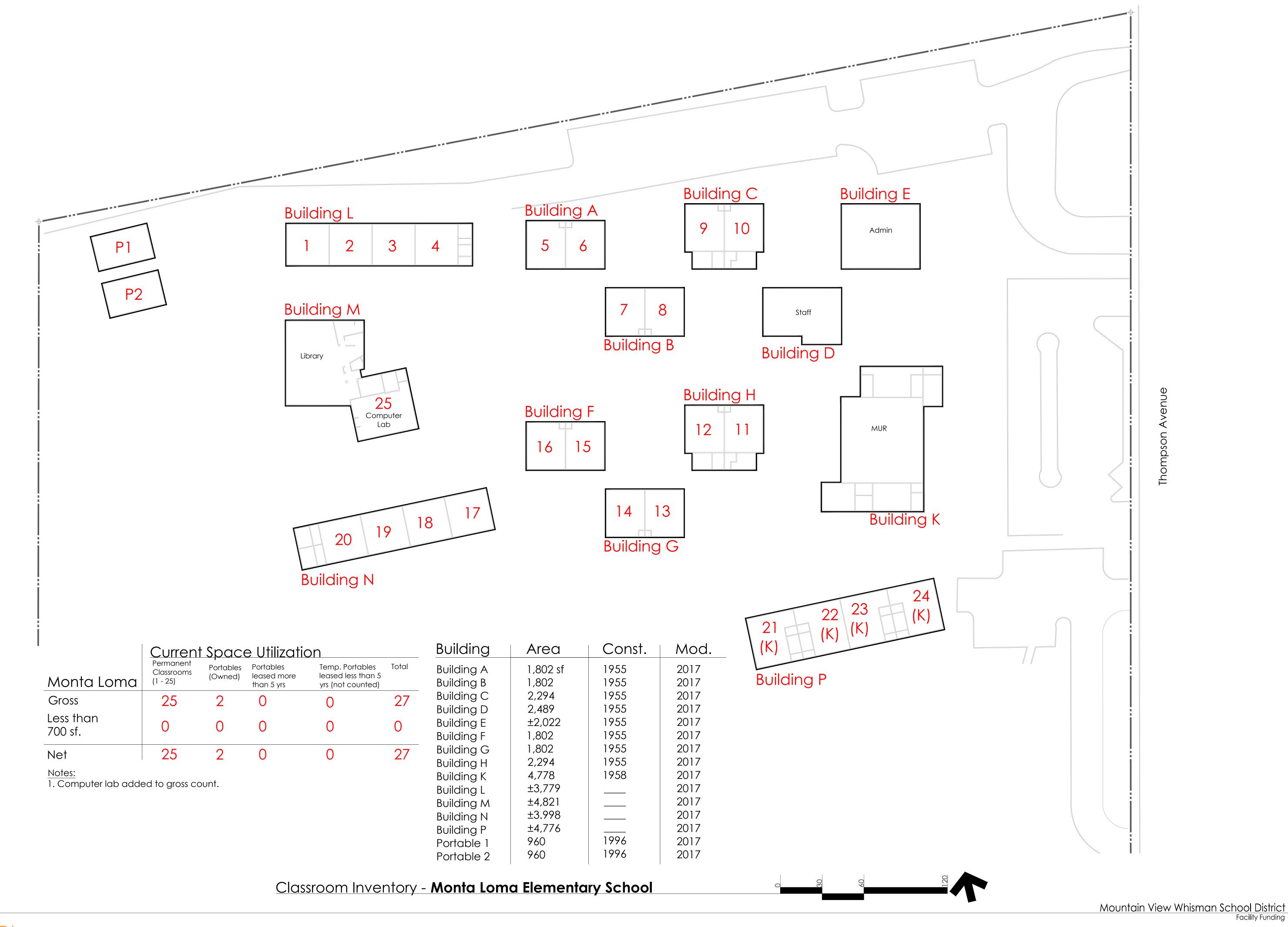






DTA Dreiling Terrones Architecture Inc. Architecture | Infrastructure | Environments







Stevenson	Curren Permanent Classrooms	Portables (Owned) (P1 - P14)	Portables leased more than 5 yrs	Temp. Portables leased less than 5 yrs (not counted)	Total
Gross	18	3	0	0	21
Less than 700 sf.	0	0	0	0	0
Net	18	3	0	0	21

Building	Area	Construction	Modernization
Building A	3,840 sf	2018	
Building B	6,078	2018	
Building C	3,840	2018	
Building D	6,720	2018	
Building E	2,841	1964	2018
Building F	5,400	2019	
Building G	3,360	2018	

Legend

Stevenson ES

Temp. District Office

Classroom Inventory - Stevenson (PACT) Elementary School

Nargas ES



Slater ES, Vargas ES

Classroom Inventory -

Current Space Utilization					
Theuerkauf	Permanent Classrooms (1 - 22)	Portables (Owned) (P1-P9)	Portables leased more than 5 yrs	Temp. Portables leased less than 5 yrs (not counted)	Total
Gross	22	9	0	0	31
Less than 700 sf.	0	0	0	0	0
Net	22	9	0	0	31
Notes:					

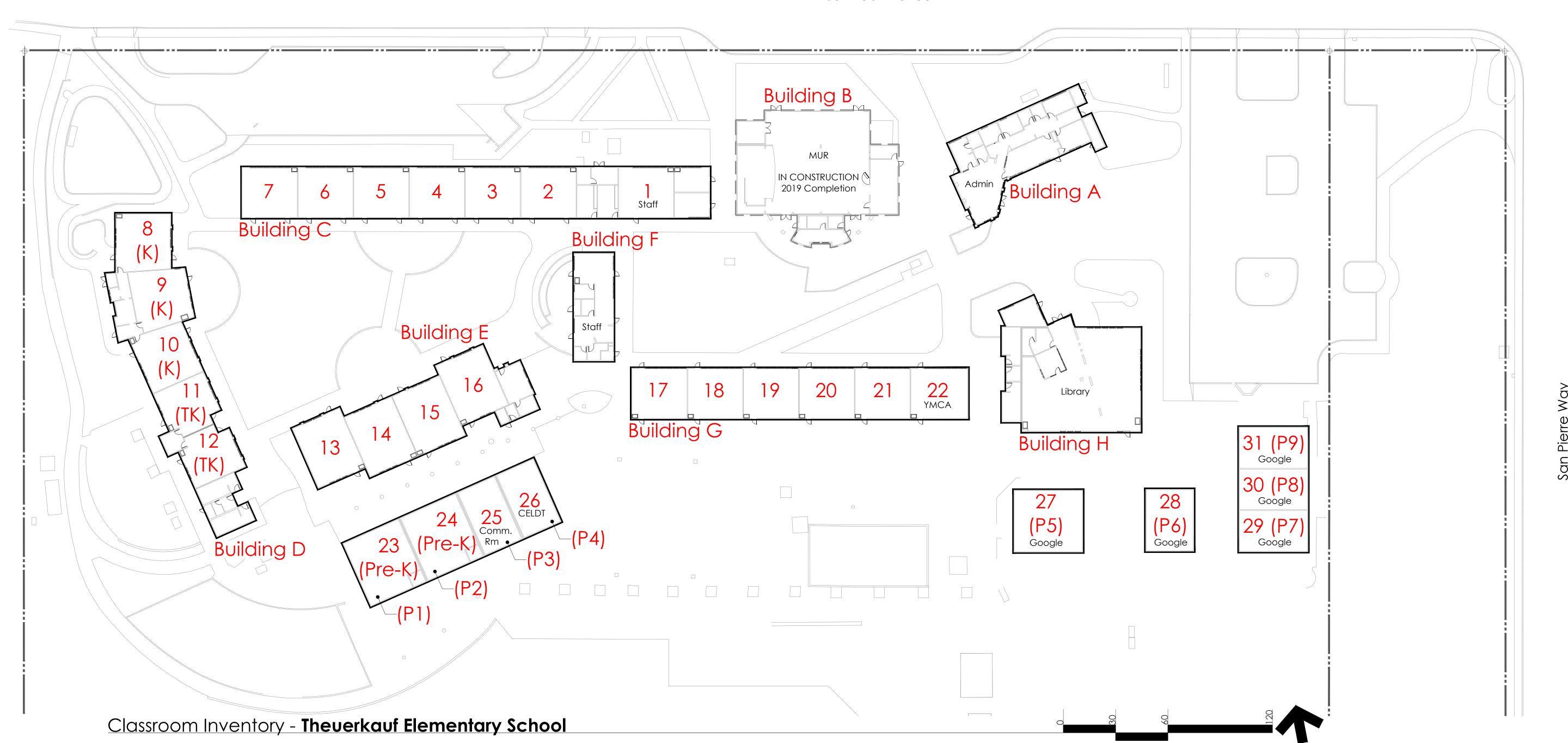
Building	Area	Construction	Modernization
Building A	3,150 sf	1956	2018
Building B	4,211	1952	2019
Building C	8,060	1952	2018
Building D	6,276	1998	2018
Building E	4,4827	1998	2018
Building F	1,300	1956	2018
Building G	5,352	1956	2018
Building H	4,793	1985	2018

<u>lotes:</u>

1. Room 22 has been leased to YMCA Kids' Place since 2004.

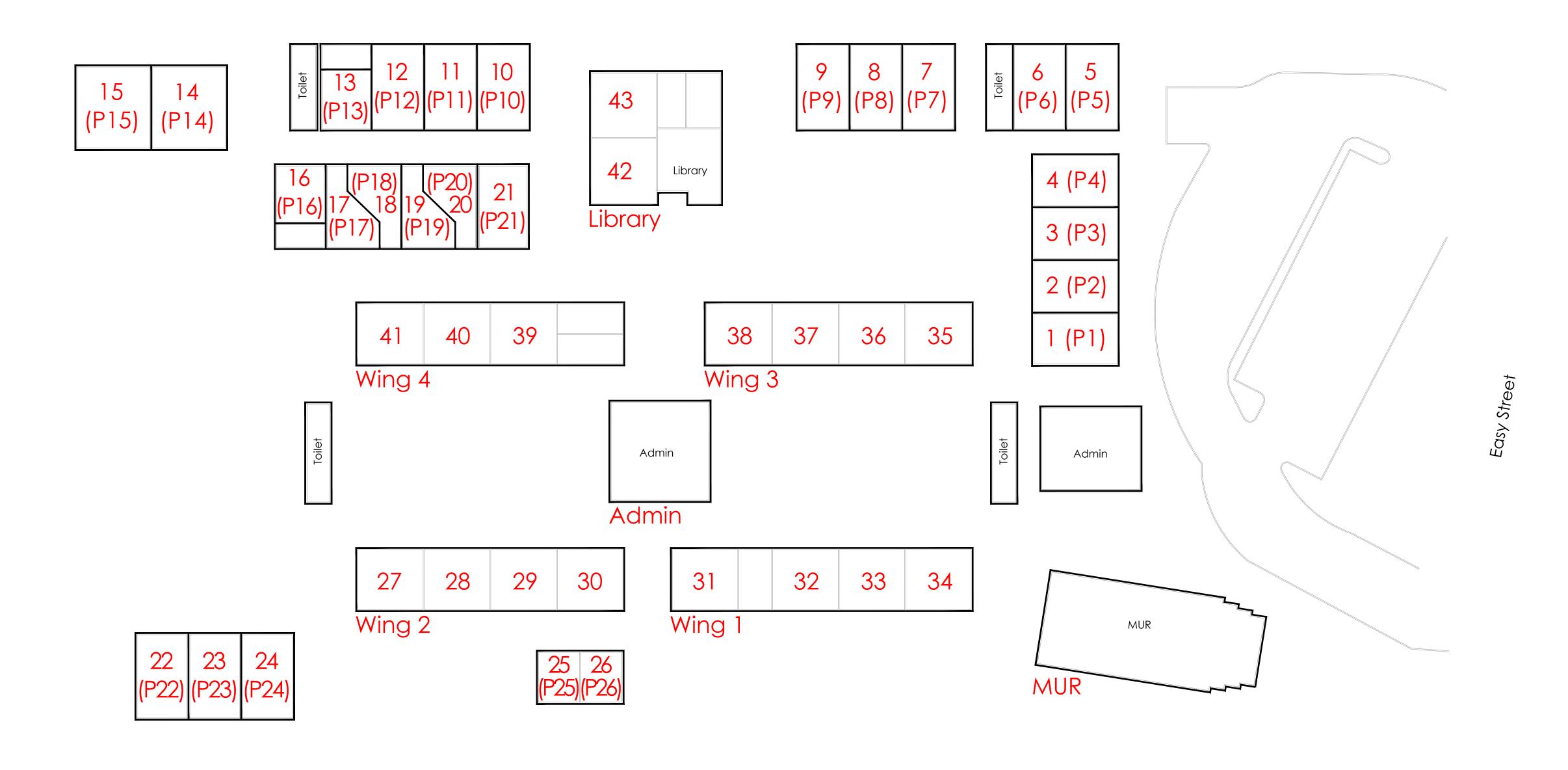
2. Rooms 27-31 have been leased to Google since 2004.

San Luis Avenue



	Current Space Utilization				
Slater	Permanent Classrooms (27 - 43)	Portables (Owned) (P1 - P26)	Portables leased more than 5 yrs	Temp. Portables leased less than 5 yrs (not counted)	Total
Gross	17	26	0	0	43
Less than 700 sf.	0	-4	0	0	-4
Net	17	22	0	0	39

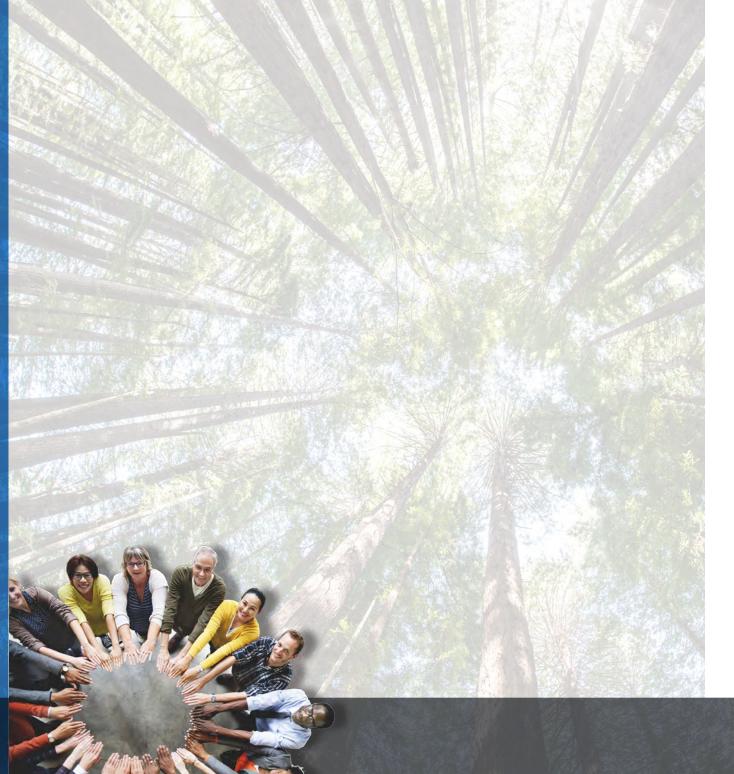
Building	Area	Construction	Modernization
Admin	1,800 sf	(19773)	
MUR	±4,400		
Library	3,715		
Wing 1	4,118		
Wing 2	3,660	(19773)	
Wing 3	3,660		1994
Wing 4	3,660	(22295)	1994
, , , , ,	3,333		



Classroom Inventory - Whisman Elementary School
LEASED German International School of Silicon Valley, Yew Chung International School



Notes:
1.Rooms 13, 16, 25, and 26 are less than 700 sf. Added to gross count.



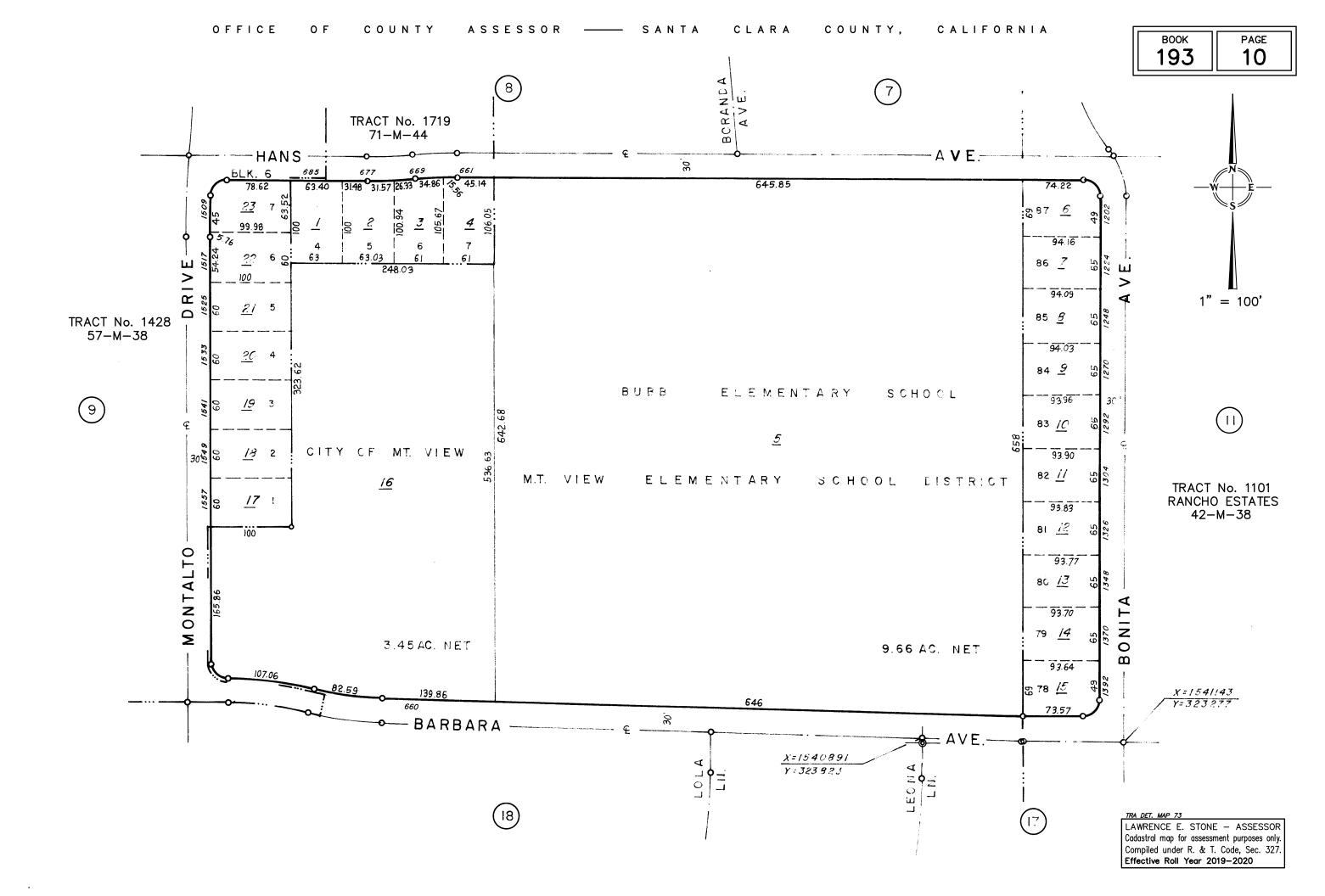


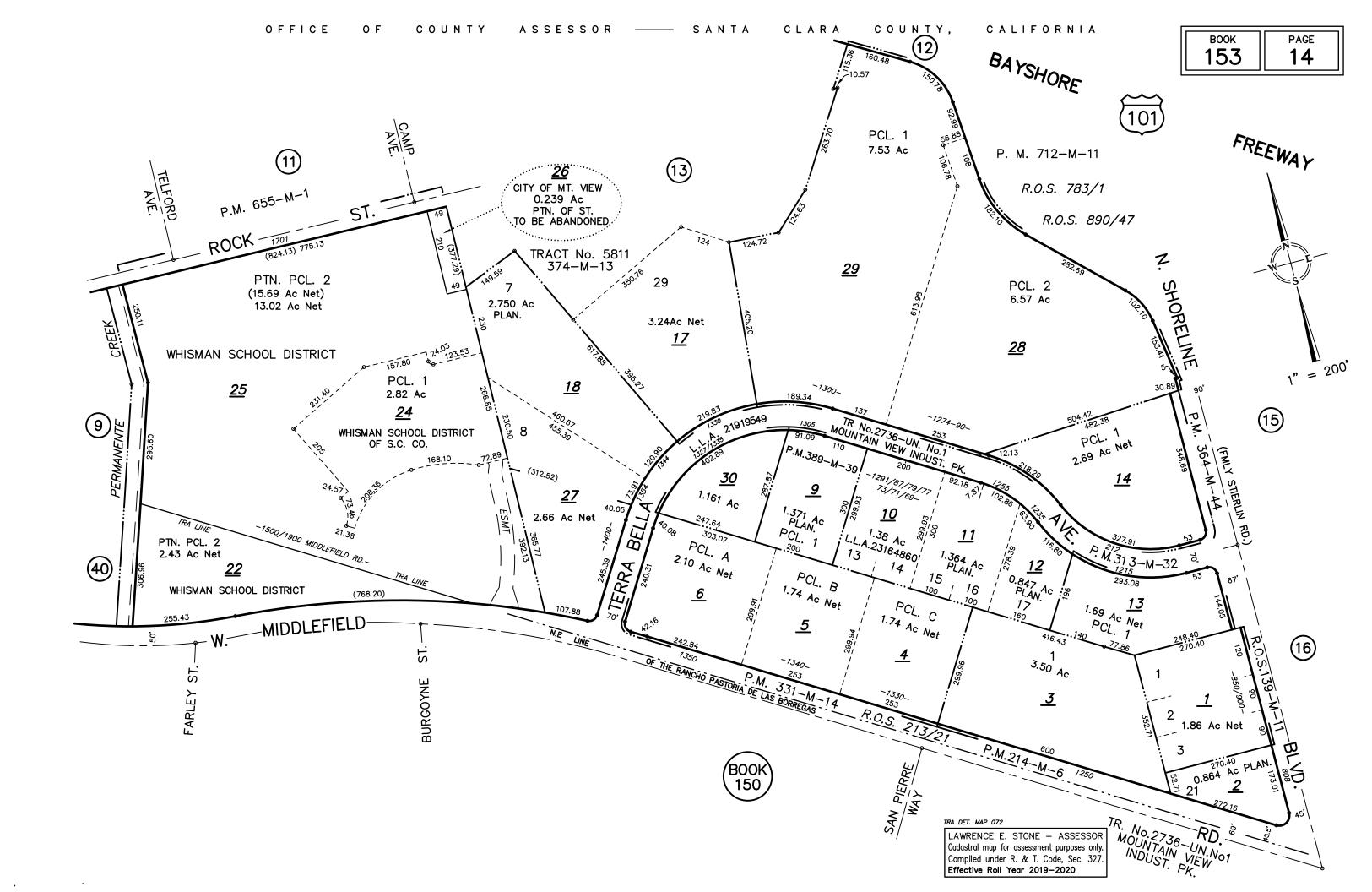
ASSESSOR PARCEL MAPS MVWSD PROPERTIES

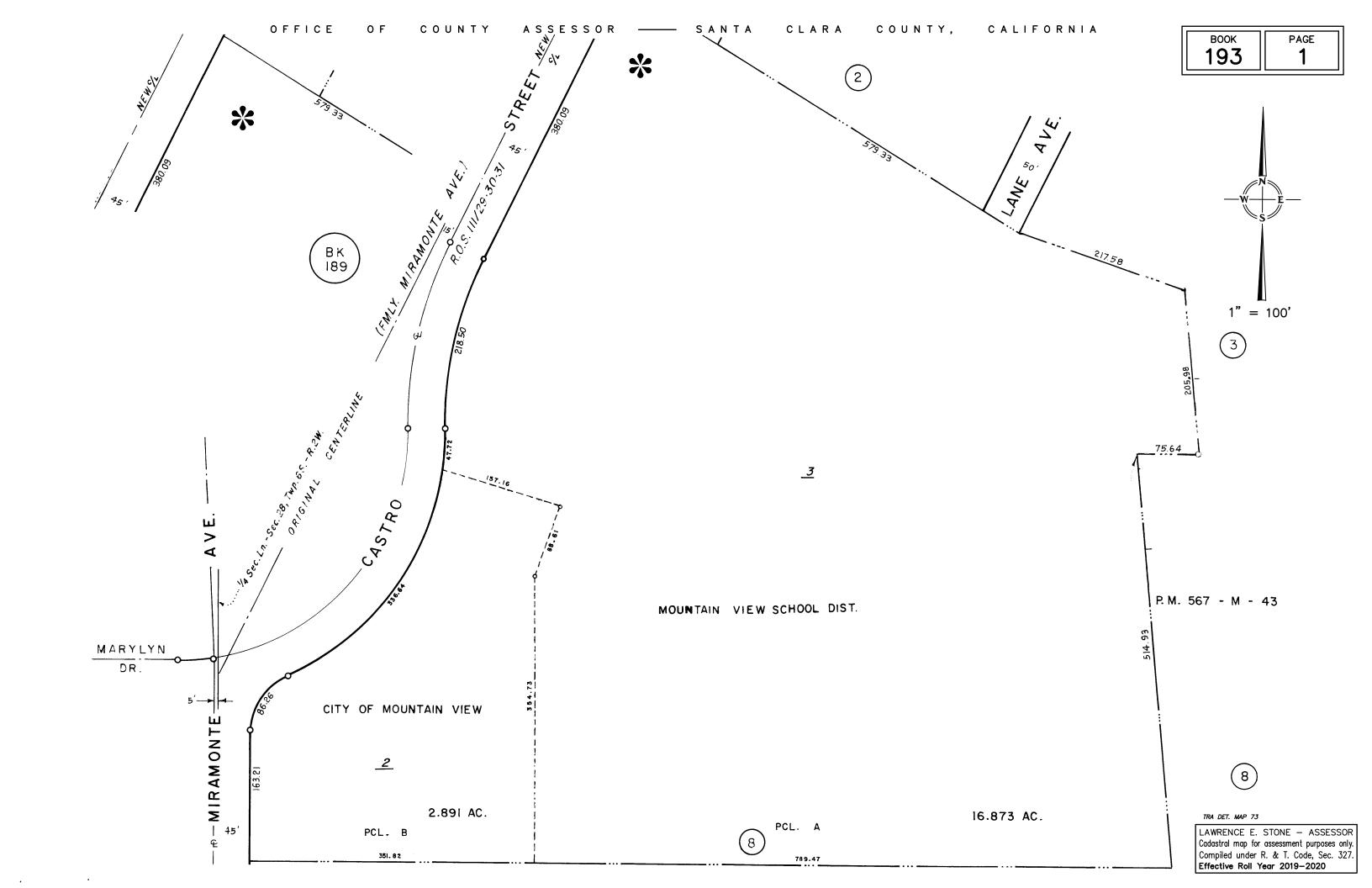
APPENDIX B

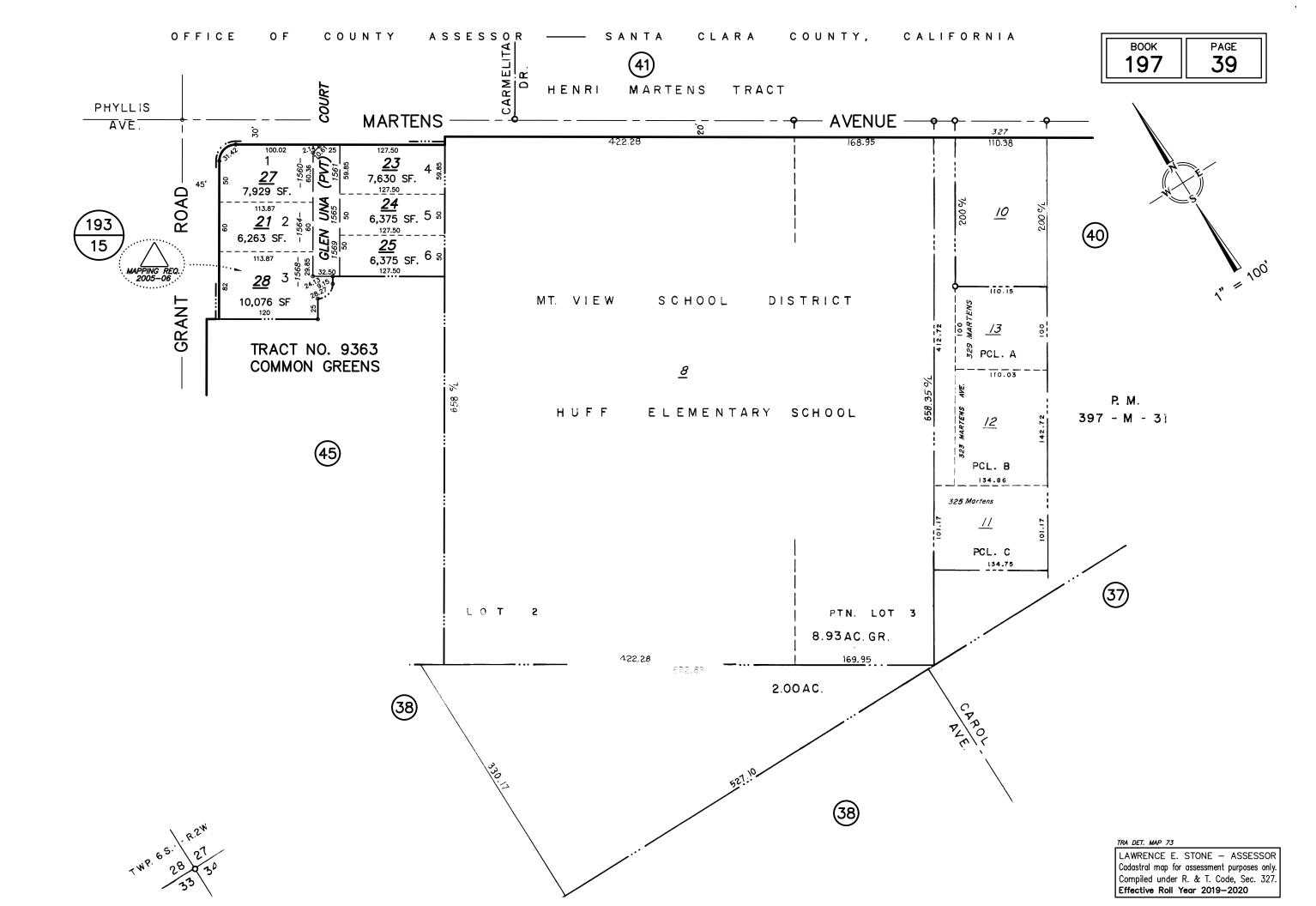
MVWSD MASTER FACILITIES PLAN

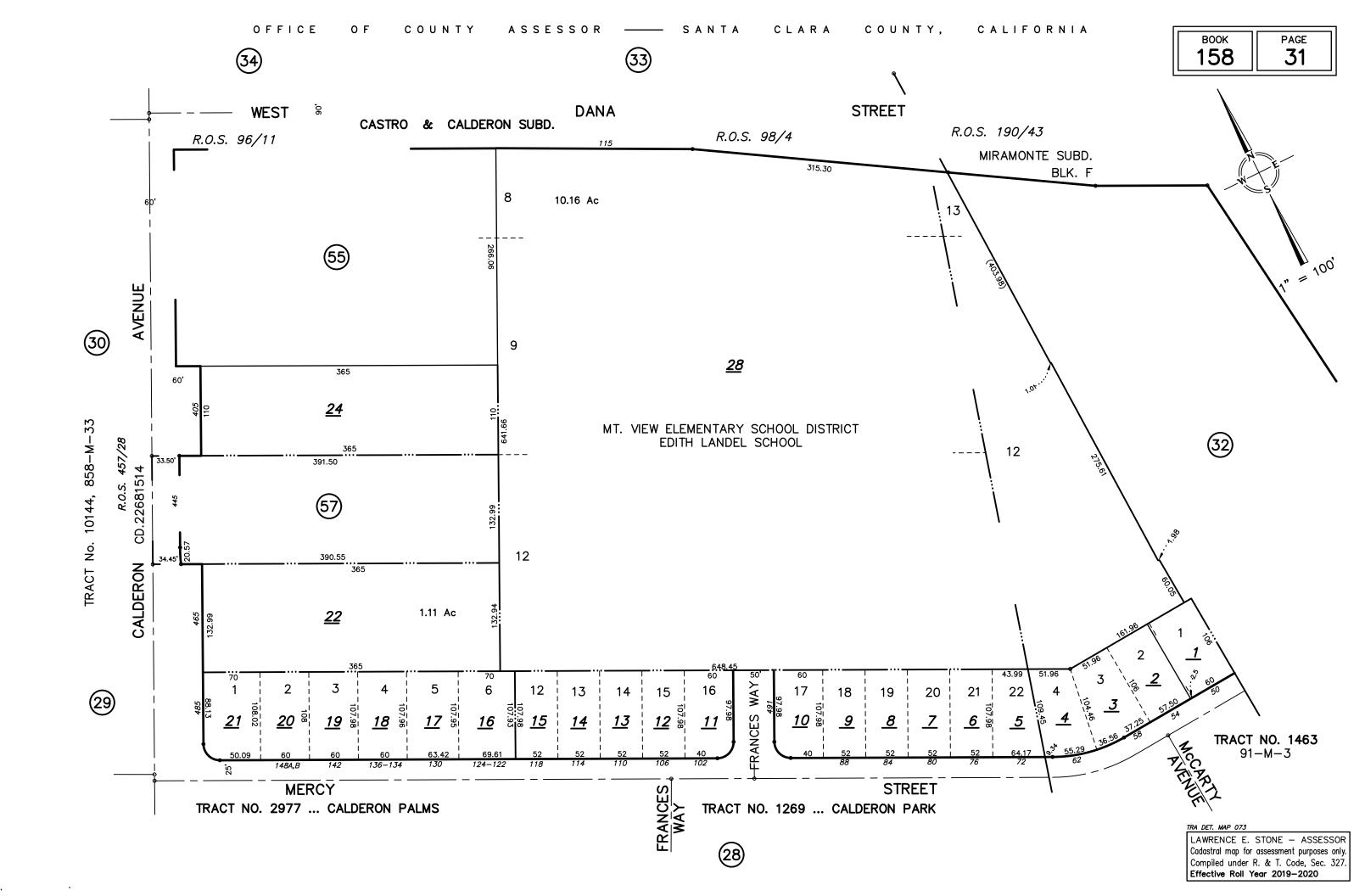
November 2019

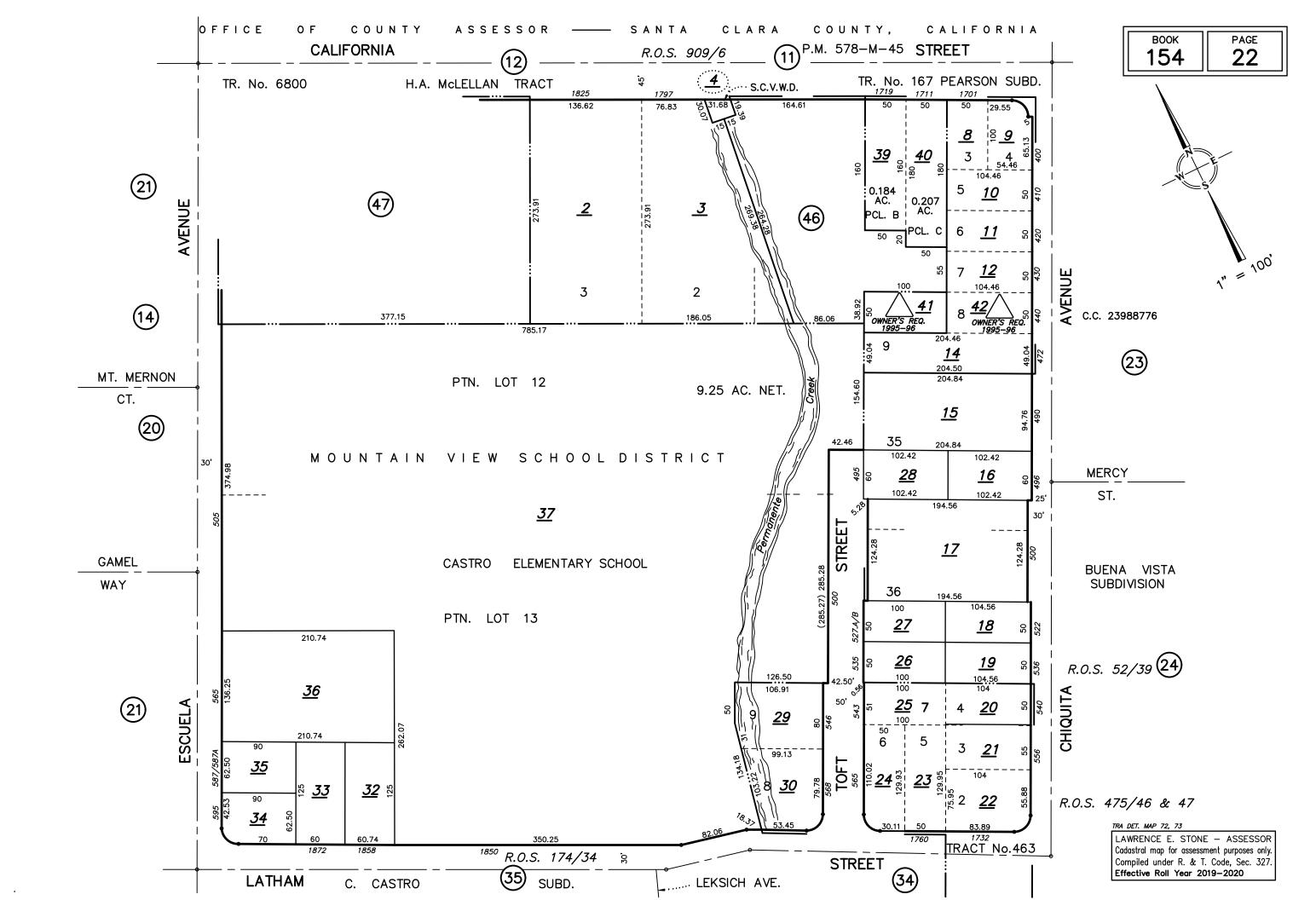


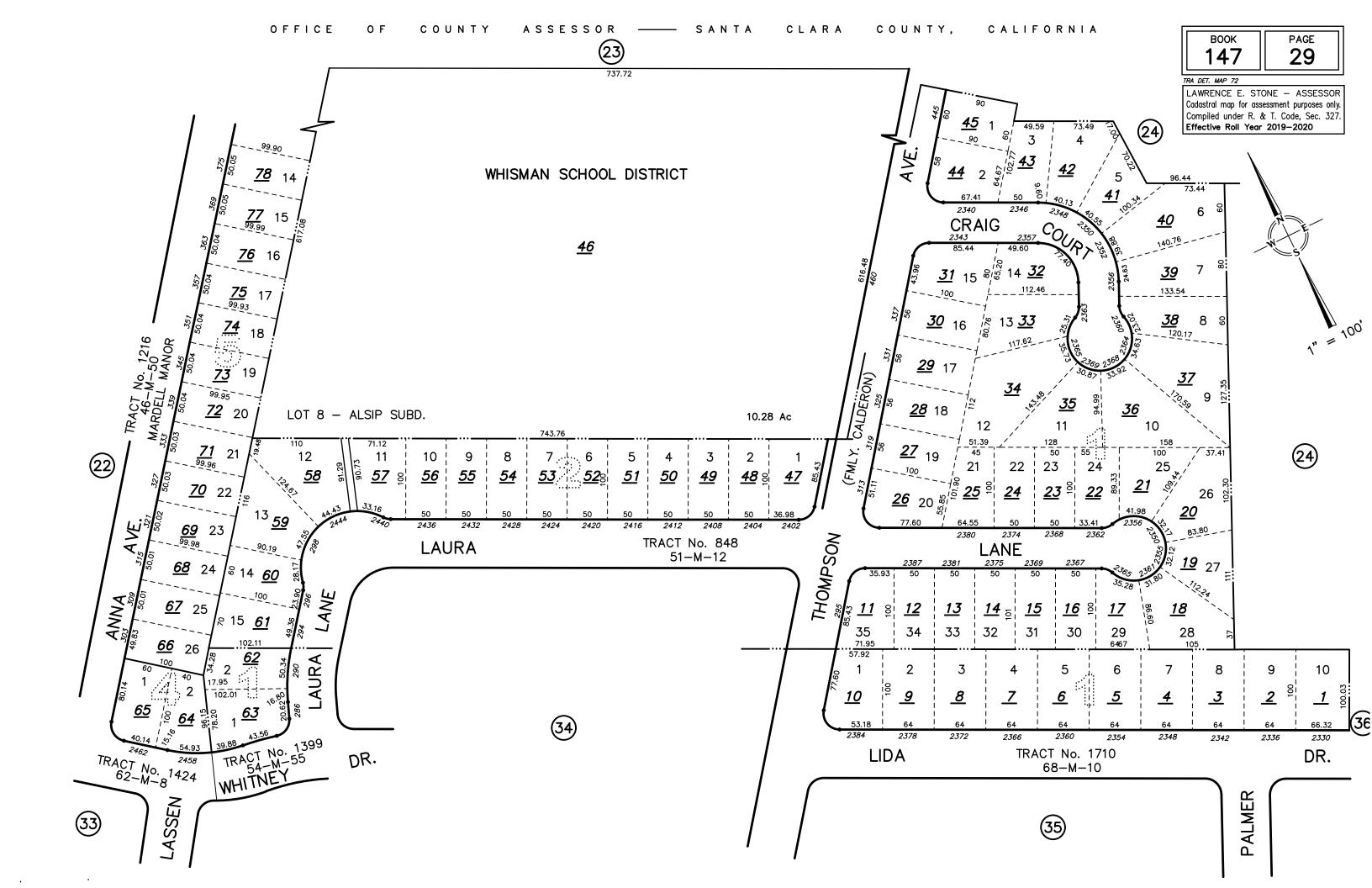


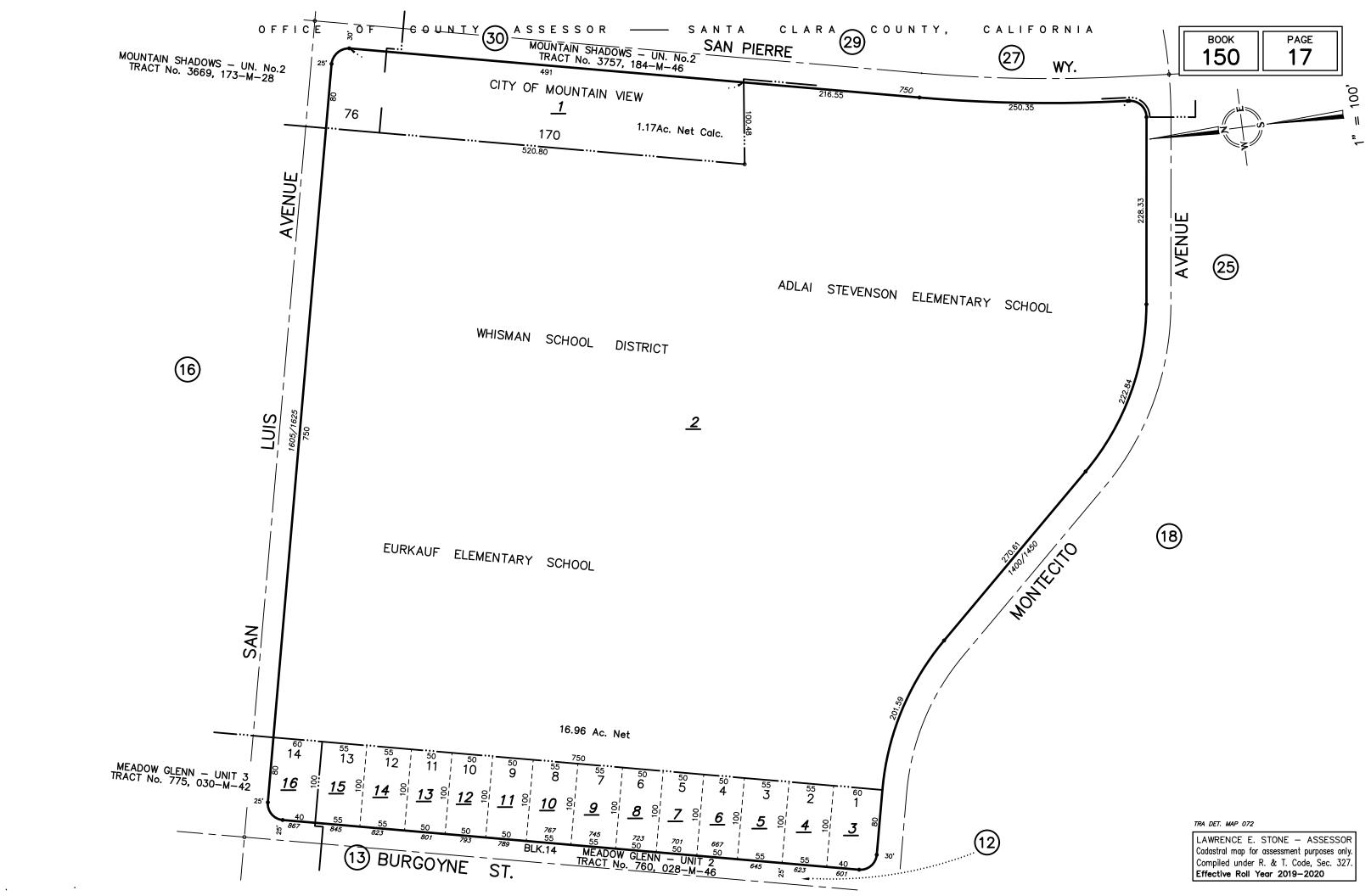


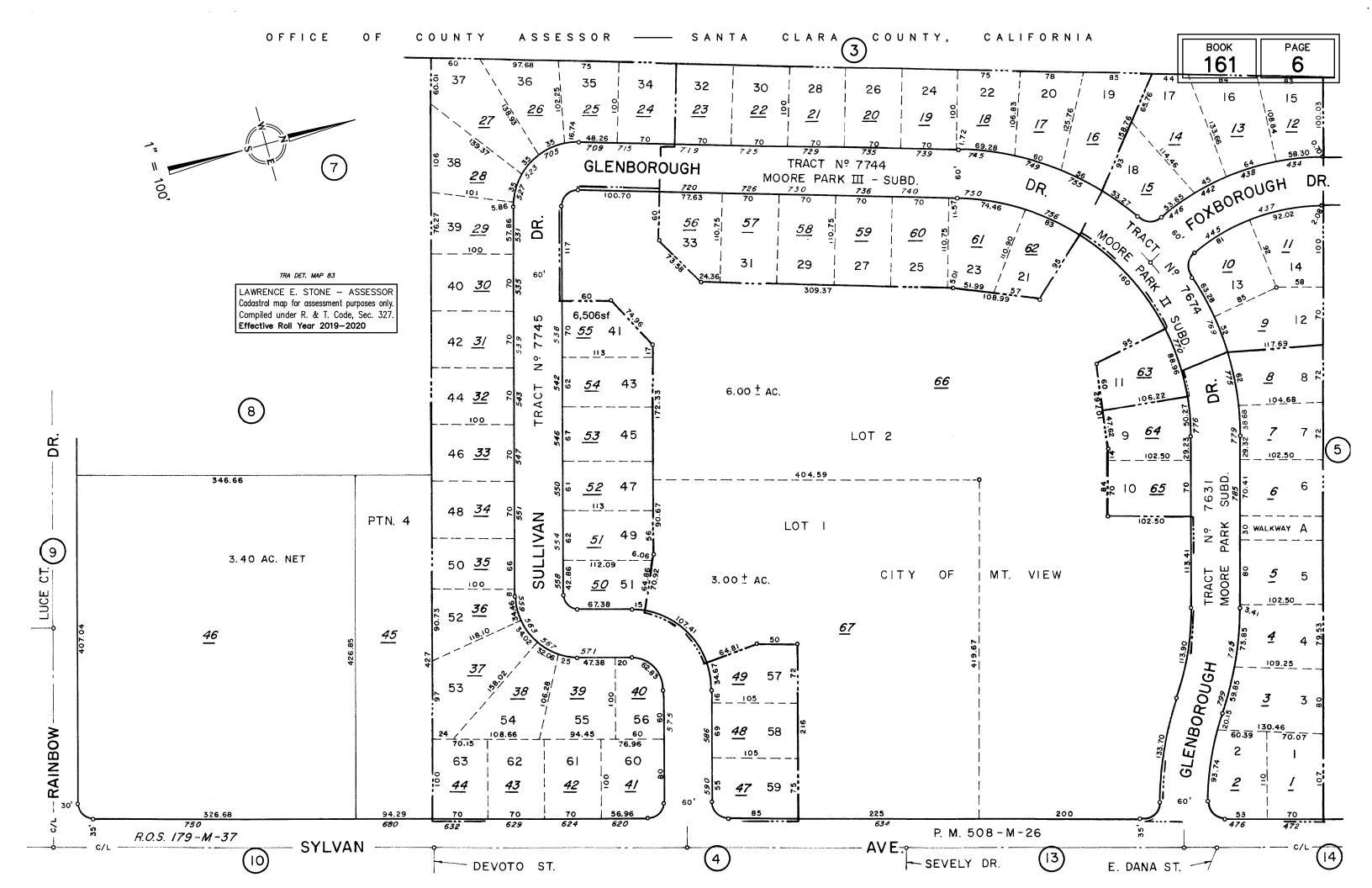


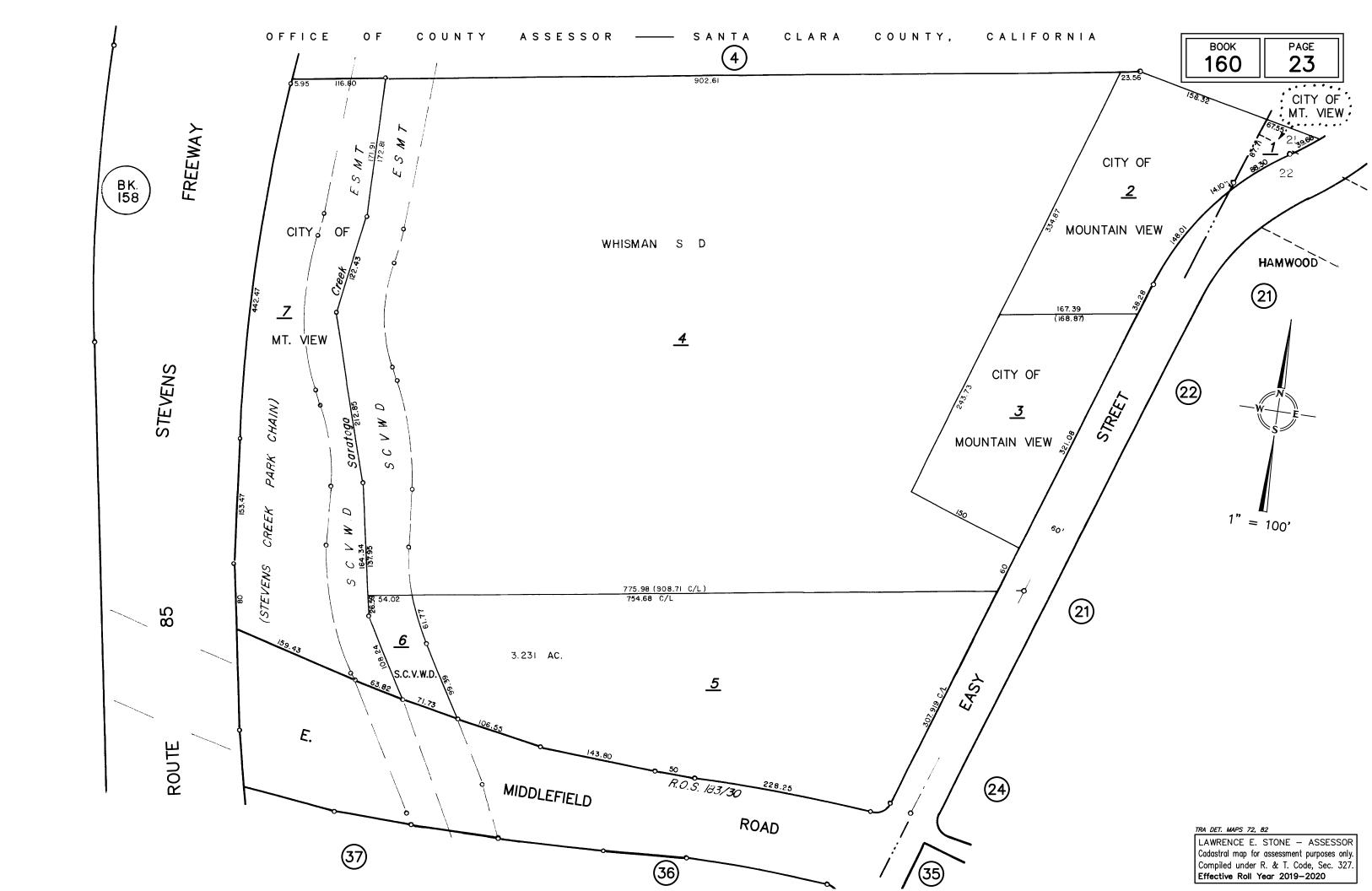












ELEMENTARY SCHOOLS (K-5)

Bubb

Castro

Huff

Landels

Mistral

Monta Loma

Stevenson

Theuerkauf

MIDDLE SCHOOLS (6-8)

Crittenden

Graham

DISTRICT SERVICES/PROGRAMS

Maintenance, Operations, Transportation (MOT)

Preschools

Special Education

Technology



INTERVIEW NOTES

APPENDIX C



MEMORANDUM



TO:	FROM:	
File	Maria Madrigal/Gene Yong	
COMPANY:	DATE:	
Student Facilities Improvement Plan (SFIP)/	31 Jul 19	
Ten-Year Master Plan Update		
Mountain View Whisman School District		
SUBJECT:	JOB NUMBER/REFERENCE NUMBER:	
Interview Notes	02449	
Principal-Bubb Elementary School		
10:00am, Tuesday, 30 Jul 19		

ATTENDEES

BUBB ELEMENTARY SCHOOL					
Bubb ES	Cyndee Nguyen	Principal			
ARTIK (A3)					
A3	Gene Yong	Senior Project Manager			
А3	Maria Madrigal	Project Architect			

DISCUSSION NOTES

- 1. The school's educational programs are based on differentiated and diverse learning.
 - a. Each grade level has 75-100 students, equivalent to 3-4 classrooms per grade.
 - b. Students only sit in a fixed classroom during the first "home room" period.
 - c. Each subsequent period of instruction involves a fluid grouping of students by competency levels in a given subject. These grouping fluctuate from period to period and are changed approximately every two weeks.
 - The 3-4 teachers in each grade level will meet regularly/bi-weekly to identify students groupings.
 - ii. The size of groups can vary widely from a small group (<10 students) to a very large group (>40 students).
 - Teachers collaborate with each other, both within each grade and within each subject matter. Teachers in each grade meet at the end of each week to plan for the following week (e.g., Thursday).
 - d. The school often hires an extra teacher for breakout groups in a given subject or grade level.

ART & ARCHITECTURE

MEMORANDUM

2. Classrooms

- Existing classrooms are standardized across the entire school and lack flexibility to handle small groups or very large groups.
- b. Classrooms are often either too big for small groups or too small for very large groups.
- Flexible, adaptable classrooms are needed to accommodate breakout groups and large groups.
 - i. Break out spaces attached to classrooms.
 - Operable interior and exterior partitions to enable spaces to be combined and for classroom spaces to be extended to adjoining exterior spaces.
- 3. STEM-based education is a priority and there is no dedicated purposefully configured space for it.
 - a. The only difference between the school's existing STEM classroom and a regular classroom is the flooring (i.e., VCT vs. carpet) and sink.
 - A STEM classroom should be configured more like a workshop or lab (i.e., flexible, adaptable, messy, fabrication, utility support, etc.).

4. Competing Demands for Space-Extended Care

- After school, several different vendors provide extended care services on campus (e.g., YMCA). They use the portables, MUR and library. They do not use any classrooms.
- b. The school loses access to facilities used by Extended Care providers after hours.
- c. The school needs access to these spaces for meetings, workshops and its own after school programs.

5. Circulation

- 50% of students arrive through the front of the school along Hans Ave. and 50% arrive through the back of the school from Barbara Ave.
- Students arriving by vehicles arrive primarily on Hans Ave. The existing pickup/dropoff area on Hans Ave. is too small and awkwardly configured.
- c. There is no designated pickup/dropoff facilities on Barbara Ave. Students are dropped off curbside and walk through the back gates.

6. Safety and Security

- a. There is minimal perimeter security along the back of the school campus along Barbara Ave. and Bubb Park. There is no gate to control entry at the SE corner of the campus and no fence or gate at the SW corner to control entry to/from the rear parking lot and along the shared boundary with Bubb Park.
- b. Existing gates in the fence along the park edge are locked. Custodial staff open and lock the gates every day. Students and staff need to be able to exit the site even when the gates are locked (e.g. during an emergency event).

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MEMORANDUM



c. There is minimal site lighting around the playground, parking lot and portables. It is very dark on campus after hours. Only the immediate areas around classrooms are lit. The lack of site lighting can make it very uncomfortable for staff walking from their classrooms to their cars in the dark (i.e., late afternoons in winter).



7. Play Equipment

a. Has not been updated in 10 years and will need to be replaced.

8. Special Ed

- a. The SPED program is based in recently modernized spaces in Bldg. 6. Its existing facilities are less than ideal due to the following:
 - i. Location, gates and lack of windows isolates SPED students from the rest of campus.
 - ii. Classrooms are awkwardly configured (i.e., triangle-shaped space).
 - iii. Lack of windows gives space.
- b. Bubb ES has larger than average SPED population, many of whom are severely disabled.
- c. Need smaller spaces for service providers/specialists/counselors to support program.

9. Outdoor Spaces

- Campus lacks outdoor spaces for non-athletic, more passive activities (e.g., board games, drawing, reading). These spaces should be visibly connected to existing play areas.
- Outdoor Classrooms: Create outdoor, sheltered spaces for up to 30 student, including storage, utilities, and furnishings to support gatherings/instruction.



MEMORANDUM

c. Shade Structure: existing shade structure is very popular, but cannot be used during inclement weather since it is a fabric roof. Would be ideal to have an all-weather shade structure.

PROJECTS WORKSHEET
Update to the 2010 Student Facilities Improvement Plan
Mountain View Whisman School District

	2010 Student Facilities Improvement Plan (SFIP) Projects							
PRIORITY CATEGORY PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED					
2-School Int	Landiment Growth Introductive PROJECT TYPE/CATEGORIES and Enhancement		PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)
BUBB	ELEMENTARY	SCHOOL				4 pt scale: 1-	ligh to 4-Low; NA-Not Needed	
PROJEC	TS FROM 2010 S	FIP - NOT COMPLETED / PARTIALLY COMPLE	TED					
1	Safety&Growth	Campus Lighting	Add/replace parking and site lighting		Partial	2	Improve site lighting around campus, including parking areas.	Site & parking lighting not done.
1	Safety&Growth	Separate Parking, Pickup and Bus Loading Areas	Replace paving, curbs, fixtures; new driveways, ramps, landscaping		Partial	1	Expand capacity for pickup/dropoff. Deconflict parking from pickup/dropoff areas.	Still needed, not done, limited scope based on available land.
1	Safety&Growth	Restroom Modernization	Replace flooring, wall tiles, fixtures, lighting, cubicles		Partial	-	CN to defer to others	Restrooms are functional and up to current code. Wall tile is dated. Limited scope.
1	Safety&Growth	Gas Upgrade (code compliance, underground lines)	Gas shutoff valves/vacuum breakers, at bldgs to be modernized.		Not Completed		CN to defer to others	Not sure of current condition
1	Safety&Growth	Play Cluster (asphalt, turf, play structures)- Kindergarten	New play box w/ rubber flooring, play structure, fencing, turf		Not Completed	3	See discussion in interview notes.	Replace aging play structures
1	Safety&Growth	Play Structures-Grades 1-3/4-5	New play structures, play box and surfaces (2)		Not Completed	3	See discussion in interview notes.	Replace aging facilities
1	Safety&Growth	Classroom Replacement-1 Story	New extended care bidg.		Not Completed	-	See discussion in interview notes.	Extended Cere is in portable which was just modernized. Confirm if still needed.
1	Safety&Growth	Fencing	New 8' chainlink/gates at school perimeter, garden fencing.		Not Completed	1	Provide fencing and control gates along Barbara Ave. and Bubb Park (SW corner of campus).	Side of school (west), abutting park
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, end-svc If)	Replace all plumbing fixtures, eqpt., and bldg, domestic water lines.		Partial	-	CN to defer to others	Fixtures replaced under phases 1 & 2. Replacement of concealed plumbing lines not completed, would be quite costly and require ripping open new finishes.
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace all existing HVAC systems		Not Completed		CN to defer to others	HVAC systems replaced in 2003 (beyond typ. 15 year service life), systems do not meet Title 24 standards.
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade utilities if needed		Not Completed		CN to defer to others	Limited value. Site deficiencies recognized and addressed during completed projects. Consider on case-by-case basis with specific modernization projects.
2	Infrastructure	Hard-Court Play Area (new AC, AC overlay)	New asphalt-concrete		Not Completed	-	CN to defer to others	Include in scope of modular removal and site projects.
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paving, repair/reroof covered walkway, underground existing roof-mounted conduits		Not Completed	-	CN to defer to others	Covered walkways repaired and refurbished (5-10 yrs service life left). Roof mounted conduits not relocated. Umited benefit to undergrounding conduits. Consider when time to replace roof.
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial		CN to defer to others	Subject to District (electrical, cost) & School (shade structure) priorities.
3	Enhancement	Energy Efficiency (mechanical, electrical, plumbing)	Upgrade MEP systems to energy efficient systems-existing bldgs.		Partial		CN to defer to others	Controls/BMS done under phase 1 & 2. See HVAC replacement project.
3	Enhancement	Landscape (frontage, programmatic spaces)	New hardscape/softscape at new frontage, outdoor spaces, garden area		Not Completed	2	Create outdoor learning spaces	Landscape is functional. Confirm with school & district if upgrade is a priority.
3	Enhancement	Existing Administration-Expansion	1k sf expansion of existing Admin Bldg (#2). Bldg #2 modernized by SFIP #27		Not Completed			Existing admin building modernized summer 2018. Defer to school & district if still needed.
3	Enhancement	Athletic Fields (track, walking trail)	New decomposed granite trail around playfield		Not Completed		See Landels interview notes	Condition of field is good. Confirm if trail is still needed or field surface to be changed.

Prepared by Artik for MVWSD 1 of 2

8/15/2019

PROJECTS WORKSHEET Update to the 2010 Student Facilities Improvement Plan Mountain View Whisman School District

2010 Student Facilities Improvement Plan (SFIP) Projects								
PRIOR	PRIORITY CATEGORY PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED				
1-Safety & Enrollment Growth 2-School Infrastructure PROJECT TYPE/CATEGORIES 3-Educational Enhancement		PROJECT TYPE/CATEGORIES	PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)
BUBB	BUBB ELEMENTARY SCHOOL				4 pt scale: 1-High to 4-Low, IIA-Not Heeded			
OTHER PROJECTS STILL NEEDED TO ADDRESS ANY PRIORITY AREA: 1) STUDENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL INFRASTRI			L INFRASTRU	UCTURE, 3) EDUCATONAL PROGRAM ENHANCEMENTS				
2	Infrastructure	Existing Classrooms-Modernization #1, #3-5 1 Create flexible, collaborative spaces with breakout rooms and ope		th breakout rooms and operable partitions.				
2	Infrastructure	Existing Classrooms-Modernization (SPED)		TBD		2	Create more centrally located SPED class	sroom speces with better configuration and lighting.
2	Infrastructure	Technology Upgrade	Replace all fiber optic cables with <u>OM4</u> cables Replace all copper cables with <u>Cat6a</u> cables Repair network cabling	All		2		approx. 4,700 megahertz (approx. double existing) gher bandwidth/data rates over longer distances. ed since being installed in 2018.

Prepared by Artik for MVWSD 2 of 2 8/15/2019 MEMORANDUM



TO#	FROM.#	
File	Maria Madrigal/Gene Yong	
COMPANY#	DATE#	
Student Facilities Improvement Plan (SFIP)/	29 Jul 19	
Ten-Year Master Plan Update		
Mountain View Whisman School District		
SUBJECT#	JOB NUMBER/REFERENCE NUMBER #	
Interview Notes	02449	
Principal-Castro Elementary School		
9:00am, Monday, 29 Jul 19		

ATTENDEES

CASTRO ELEMENTARY SCHOOL					
Castro ES	Theresa Lambert	Principal			
ARTIK (A3)					
A3	Gene Yong	Senior Project Manager			
A3	Maria Madrigal	Project Architect			

DISCUSSION NOTES

- 1. Castro ES is a Title 1 School
 - a. Castro ES and Theuerkauf ES are MVWSD's two Title 1 elementary schools.
 - b. Title 1 Schools are part of a federal program which provides additional resources and services for public schools which serve students from predominantly lower-income communities (min. of 40% to students).
 - Approximately 82% of Castro ES students come from low-income families, while 68% of Theuerkauf ES' students do (source: Great Schools.org).
 - d. Castro ES is required to provide additional support services that other MVWSD schools are not required to.

Artik Art & Architecture | 394-A Umbarger Road | San Jose, CA 95111 USA Tel: 408.224.9890 | www.ArtikA3.com | info@artika3.com



MEMORANDUM

2. Location

- Castro ES is situated on the eastern half of the combined Mistral/Castro ES campus. The majority of its students come from areas to the west of the campus.
- b. This create some circulation issues since many students/parents travel through the Mistral portion of the campus to get to Castro ES.
- 3. Three most significant facilities-related needs include:
 - a. Storage
 - b. Administrative support space
 - c. Parking

4. Storage

- a. Need/Workarounds
 - i. There are only three storage closets/rooms on campus.
 - 1. A storage closet in the Admin Office for general school materials (Bldg. A)
 - 2. An upstairs custodial closet in Classroom wing (Bldg. C)
 - 3. An L-shaped closet in the MUR (Bldg. F)
 - ii. Classrooms have no storage closets. Built-in storage facilities in classrooms are limited to a half-bank of shelves/cabinets and a sink.
 - School bought storage cabinets and shelves for classrooms. This results in net loss of usable classroom space.
 - iii. Classrooms do not have storage hooks for students backpacks outside of classrooms. Storage hooks are on a wall inside classrooms, resulting in loss of wall space and increasing clutter in classroom spaces.
 - iv. P.E. does not have any storage.
 - 1. Castro ES shares use of Mistral's P.E. storage for outdoor P.E. equipment.
 - 2. K Playground equipment/material storage uses the nurse's office in the Admin. Bldg.
 - v. MUR storage closet is used to store school materials, and not MUR-related equipment/furnishings as intended.
 - Tables and chairs are stored in the open MUR space. These have to be moved outside during large events in the MUR.
 - vi. The custodial closet is on the second floor.
 - This can create challenges when servicing ground level facilities, especially
 if the elevator is unavailable.
 - 2. School also stores school supplies in the custodial closet.
 - vii. School relies on MVWSD's MOT to store large items.

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5. Parking

- a. Insufficient parking for staff.
 - i. Existing Toft St. parking lot has 18 stalls.
 - ii. School needs parking for its staff (35 pns).
 - Parking also needed for part-time or rotating staff (e.g., occupational therapist, psychologist, vision, adaptive movement, nurse, etc.), visitors, and volunteers.
- b. Staff park in open paved area behind the Classroom Bldg. (Bldg. C).
 - i. This area is designated as the site for future or interim classrooms.
 - If the school loses area for staff parking, it currently does not have an alternative location for staff to park.
- c. The Mistral ES parking lot is not available to Castro ES staff.
- 6. Administrative Support and Meeting Spaces
 - a. School has only three offices and one small meeting room (6-8 pns).
 - i. One office is for the principal and two are for other senior administrative staff.
 - Principal only occupies her office three days of the week and works from the reception area the other two days.
 - The principal's office is used by support services on the other two days since they require privacy.
 - ii. There are no offices for other support staff that provide services at the school. These services are critical to fulfill its Title 1 requirements. They often require spaces which are private.
 - These services currently use the principal's office, the meeting room or an empty classroom.
 - iii. Need at least two additional offices
 - 1. School psychologist requires a dedicated office for 2-3 days a week.
 - Counselors for occupational therapy, vision and adaptive movement each work 1 to 2 days a week at the school. The three can share one office.
 - iv. Staff meetings are held either in the staff room or a vacant classroom, since the existing meeting room is too small.
 - Need space for up to 40 pns. This can include space for community meetings.



MEMORANDUM

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7. Other facility needs/issues include:

- a. Library teaching/meeting space.
 - 1. The library does not have a space to teach a group of students or to meet.
 - Need at least one space suitable for teaching/sharing and/or meetings.
 This space can supplement the administrative office and meeting space needs noted above.

b. Covered Walkways

- Covered walkways were in the original plan for the school but were not constructed, notably on the upper level of the classroom bldg.
 - Students exposed to inclement weather when traveling to/from classrooms.
 - 2. Unable to store student backpacks outside classrooms.
 - 3. Classrooms affected as students track in mud/wet shoes on rainy days.

c. Secure Perimeter

- There are fences along the public frontages of both Mistral and Castro along Escuela Ave. and Toft St.
- ii. Campus is open to Castro Park and Latham Street.
- iii. Parents have expressed concerns about having a secure perimeter around campus.
- iv. Need to secure campus during school hours and secure buildings after hours.
 - 1. Scenario during school hours
 - Secure Mistral/Castro campus at perimeter along Escuela Ave.,
 Latham St. and Toft St.

2. Scenario after hours

- Enable public access to playfield, playcourts, play structure and one set of restrooms (in Admin Bldg.) from Latham St. and path from Toft St.
- Secure perimeter between playcourts and buildings and along Escuela Ave. and Toft St.

	2010 Student Facilities Improvement Plan (SFIP) Projects							
PRIOF	RITY CATEGORY	PRO	JECT DESCRIPTIONS				CURRENT PRIORIT	Y/NEED
2-School In	Enrollerent Growth Frastructure rall Enhancement	PROJECT TYPE/CATEGORIES PROJECT NOTES SITE REFERENCE		PROJECT STATUS	PRIORITY			
MISTR	AL-CASTRO EL	EMENTARY SCHOOL						
PROJEC	TS FROM 2010 SI	FIP - NOT COMPLETED / PARTIALLY COMPLETED						
1	Safety&Growth	Play Cluster-Preschool	New play box, equipment, fencing, ac/turf		Partial		Preschool needs its own age- appropriate play areas.	at Latham, open space between modulars
1	Safety&Growth	Gas Upgrade (code compliance, underground lines)	Replace gas line (certain areas), gas shutoff valve/vacuum breaker.		Partial			Regulators replaced to existing classroom wings in 2017.
1	Safety&Growth	Fencing			Partial	1	Need secure perimeter during school hours, secure property after hours. Active mitigation now required.	At Latham Preschool Confirm with schools/district regarding public access from park side.
1	Safety&Growth	Restroom Modernization	Replace floor/wall tiles, new fixtures/lighting/cubicles.	#A-C #H-P	Partial	2	Dated, need modernization	Fixtures, partiations and flooring done in 2017. Tile is dated but functional
1	Safety&Growth	Signage, Drinking Fountains	New exterior drinking fountains (4), interior/exterior signage		Partial	2	Need replace drinking stations.	2 new drinking fountains installed in 2017 along with signage. 1 older one needs replacing
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical (HVAC) systems (only on bidgs being modernized)	#H, J-N, P	Not Completed	1		Controls/BMS upgraded in 2017. Units are existing, not sure on age.
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paving, repair/reroof covered walkway, underground existing roof-mounted conduits		Not Completed	3	Not critical.	Reroofing may be needed.
2	Infrastructure	Existing Administration-Modernization	Modernize existing Admin Bldg.	ATN	Partial	1	Reconfigure parent/ community room separate from faculty spaces.	Scheduled for summer of 2020
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, end-svc lf)	New plumbing fixtures in category 1 (RR upgrade) Replace existing plumbing lines/equipment (only on bidgs being		Not Completed	1	K Classrroom (brown water)	Fixtures replaced in classroms in 2017. No infastrucrue replacment done.
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade utilities if needed		Not Completed			Limited value. Site deficiencies recognized and addressed during completed projects. Consider on
3	Enhancement	Shade Structures (assembly)	New 4500 sf shade structure (assembly area)		Partial	1	None on campus. Can share with Castro/prefer own.	Still needed
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.
OTHER	PROJECTS STILL N	NEEDED TO ADDRESS ANY PRIORITY AREA: 1) STUDEN	T SAFETY & ENROLLMENT GROWTH, 2) SCHOOL INFRAST	RUCTURE, 3	B) EDUCATON	L PROGR		
		CASTRO-Admin Support Services Expansion	Create at least 4 additional offices for Title 1 specialists (psychologist, education specialist, vision/PT/OT, etc.).			1	No spaces currently available. Use open classrooms, workrooms and staff offices as workaround	Having adaptable, transparent and flexible spaces can encourage greater collaboration and buy-in to educational philosophy.
		CASTRO-Library Modernization/Expansion	Create instructional and break out spaces for small groups.			2	No instructional/break out spaces in library. Can locate student-oriented Title 1 spaces in library.	Existing MUR only allows for one activity at a time to occur in space. Need flexibility for concurrent activities, particularly for after hours use.
		CASTRO-Storage Expansion	Create additional general, classroom, and PE storage facilities.			1	Storage lacking for school, classrooms, and P.E. Add'l storage will free up MUR storage for MUR.	Having adaptable, transparent and flexible spaces can encourage greater collaboration and buy-in to educational philosophy.
		CASTRO-Staff Parking	Create staff parking area for up to 35 cars.			1	Existing space may be lost if add'l classrooms added.	Existing MUR only allows for one activity at a time to occur in space. Need flexibility for concurrent activities, particularly for after hours use.
2	Infrastructure	MISTRAL-Technology Upgrade	Replace all fiber optic cables with <u>OMA</u> cables Replace all copper cables with <u>Catfa</u> cables Create adequate-sized <u>MDF</u> form campus	All		2	Upgrade from Cat5e copper, support I MDF-Main Distribution Frame: signal of	approx. 4,700 megahertz (approx. double existing) higher bandwidth/data rates over longer distances. distribution frame connecting campus IT equipment to (transition from outside to internal systems).

Prepared by Artik for MVWSD 1 of 1

MEMORANDUM



TO-#	FROM≢
File	Maria Madrigal/Gene Yong
COMPANY#	DATE#
Student Facilities Improvement Plan (SFIP)/	14 Aug 19
Ten-Year Master Plan Update	
Mountain View Whisman School District	
SUBJECT:#	JOB NUMBER/REFERENCE NUMBER #
Interview Notes	02449
Principal-Huff Elementary School	
11:00am, Monday, 5 Aug 19	

ATTENDEES

HUFF ELEMENTARY SCHOOL					
Huff ES Miguel Espinosa		Principal			
ARTIK (A3)					
А3	Gene Yong	Senior Project Manager			
А3	Maria Madrigal	Project Architect			

DISCUSSION NOTES

- 1. New principal, started two months ago and came from Modesto
- 2. First campus impressions
 - a. Exteriors look dated. Interiors have been modernized and are in good condition.
 - b. Campus is not secure. Lack of fences and gates to control access to campus.
 - i. Open and accessible to community.
 - ii. Accustomed to having a controlled perimeter and a single controlled point of entry during school hours.
 - c. School recently recognized by the State as a Blue Ribbon school, which is a prestigious award. School should reflect this recognition. Campus should be revitalized and made more aesthetically appealing/more inviting.
 - d. Campus lacks a clear center.

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- e. PA system should be centralized and separated from the fire alarm system.
- f. Drinking stations need to be modernized.
- 3. Does not necessarily see need for differentiated spaces to address RTI. Good teachers adapt to space given. Not a space issue.
- 4. Classrooms should be teacher friendly and have ample natural light, especially in this climate.
- 5. Project Based Learning is large part of educational program
 - a. Inquiry based education
 - b. Manipulatives are used more frequently (need storage space)
 - c. Smaller "pod" spaces could be used for a student breakout groups
 - d. Would like more open classroom with natural daylight

6. Staff Needs

- a. Access to technology more important than the space
- 7. Outdoor
 - a. Qualitative outdoor play
 - i. Differentiated play
 - b. Sensory spaces
 - c. Program of differentiated play
 - i. Encouragement of different levels of skill
 - ii. Safe place for students to sit down
 - d. Likes idea of gardens and courtyards, similar to previous school (Palisades Charter Elementary) where they had gathering spaces for the school and the community.

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TO:	FROM:
File	Gene Yong
COMPANY:	DATE:
Student Facilities Improvement Plan (SFIP)/	31 Jul 19
Ten-Year Master Plan Update	
Mountain View Whisman School District	
SUBJECT:	JOB NUMBER/REFERENCE NUMBER:
Interview Notes	02449
Principal-Landels Elementary School	
10:00am, Tuesday, 30 Jul 19	

ATTENDEES

LANDELS ELEMENTARY SCHOOL						
Landels ES	Heidi Galassi	Principal				
ARTIK (A3)						
A3	Gene Yong	Senior Project Manager				

DISCUSSION NOTES

- 1. Pickup/Dropoff & Parking
 - Existing pickup/dropoff and parking area is awkwardly laid out and results in a lot of confusing/conflicting vehicle movements.
- 2. Safety & Security (Lighting & Perimeter Fence)
 - There is no fence along the shared boundary between the playground and Stevens Creek Trail.
 - Staff have to continually monitor and has had to address people coming into the school from the trail during school hours.
 - b. There are four play structures. Three belong the school, but the fourth belongs to the City.
 - The fourth play structure is closest to the trail. School has no control over the fourth play structure.
 - c. Site lighting beyond the immediate area of the classrooms is poor, especially in the parking lot and the play areas around the classrooms. In the winter, it can be dark by late afternoon when teachers travel between classrooms to their cars.

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3. Extended Care Programs

- a. Programs are provided by outside vendors (e.g., YMCA, Beyond the Bell, Right at School, etc.).
- b. Non-classroom meeting facilities are used by these programs (portables, MUR, library).
 - Classrooms are controlled by the teachers and made available only with consent of teachers
- c. Vendors compete for space with the school's after-hour activities (staff meetings, etc) and programs (art, LEAP, tutoring, clubs). There are not enough non-classroom facilities to meet the needs of all after-school programs.

4. MUR

- a. Space was designed as a single-use space without the flexibility to partition the space.
- MUR would be more valuable if it could be partitioned to support multiple, concurrent activities. This is particularly relevant for after-school facilities to support multiple programs/activities.

5. Additional Administrative Offices

- Additional offices are needed. Many of the school's support services require privacy. Need at least four (4) additional offices for the following:
 - i. 1-School Psychologist (2-3 days/week)
 - ii. 1-shared among tutoring, testers, and LPAC-Language Proficiency Assessment Committee (2-3 days/week each)
 - iii. 1-School Community Facilitator (5 days/week)
 - iv. 1-Instructional Coach (5 days/week)



6. Parent/Community Workroom

 Need a workroom that parent and community organizations (PTA, ELAC-English Learner Advisory Committee) can use throughout the day and after hours.

7. Educational Vision

- a. Differentiated learning for different children.
 - Emphasis is on push-in instruction for different types of learners. Minimize pull-out.
 Push-in results in better integration of instruction with a student's primary educational experience.
- RTI (Response to Instruction) and ELD (English Language Development) are core educational platforms for Landels ES and schools in MVWSD.
 - RTI is a tiered framework for differentiated learning across a grade level. Instruction provided at an individual, small group and whole class level. RTI enables children to learn differently and at their own pace (i.e., students with challenges in learning, students who have demonstrated mastery of content, etc.).
 - ELD means focused instruction during the regular school day on English language standards to assist English learners to develop language skills necessary for learning academic content in English.

8. Differentiated Learning/Instruction

- a. Students are grouped by competency levels for each period (organized along grade levels).
- b. Groupings are fluid and vary from period to period based on different levels of competency in different subjects. Teachers assign students to groups. Group sizes vary widely.
- c. Collaboration among teachers is a critical part of the process. High buy-in from teachers.
 Team teaching/co-teaching is central to this approach.

9. Differentiated Learning Environments

- Need flexible classrooms that can create differentiated learning environments. More open, more flexible spaces.
- Need a more collaborative learning environments that can foster collaboration among teachers/staff. Continue to break down silos.
- c. Example of the Innovation Center at Graham MS.

10. Classrooms of the future

- Purposefully configured science classrooms which are more like labs and workshops.
 Allow/encourage more hands-on, project-based learning (e.g., maker spaces).
- b. More open, flexible, workshop-type spaces.
- c. Enable flexible groupings, small groups, team teaching.

	2010 Student Facilities Improvement Plan (SFIP) Projects								
PRIO	RITY CATEGORY	PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED				
2-5chool in	Enrollment Growth Historicature rul Enhancement	PROJECT TYPE/CATEGORIES	PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)	
LAND	ELS ELEMENTAR	Y SCHOOL					1-High to 4-Low, NA-Not Needed		
PROJEC	CTS FROM 2010 SF	P - NOT COMPLETED / PARTIALLY COMPL	ETED						
1	Safety+Growth	Fencing	New 8' perimeter fence, gates, plus garden fence		Not Completed	1	Provide perimeter fence along boundary with creek trail	No existing perimeter fence along shared boundary with creek trail.	
1	Safety+Growth	Campus Lighting	Add/replace existing site and parking lighting		Partial	1	Improve site lighting in parking lot, playground areas adjacent to school	Site & parking lighting not done.	
1	Safety+Growth	Gas Upgrade (code compliance, underground lines)	Gas shutoff valve/vacuum breakers for bidgs, being modernized.		Not Completed		HG defers to others	Confirm if safety or regulatory issue. Otherwise, system is functioning. Upgrade may not be necessary.	
1	Safety+Growth	Play Cluster (asphalt, turf, play structures)- Kindergarten	New play box/rubber surface, play structure, fercing, AC/turf		Not Completed	1	Repair ground surface around playstructures (cracking, unsafe)	One of the three playstrucures is being replaced with a all inclusive playstructure in summer of 2020.	
1	Safety+Growth	Separate Parking, Pickup and Bus Loading Areas	Replace curbs, sidewalks, AC, stops, ramps, landscaping. New trash enclosure. New bus/shade shelter.		Partial	1	Reconfigure to address awkward vehicular flows through pickup/dropol/parking areas.	Still needed, not done.	
1	Safety+Growth	Signage, Drinking Fountains	New exterior drinking fountains (4), interior/exterior signage		Partial	2		2 drinking fountains replaced summer of 2018	
1	Safety+Growth	Classroom Replacement 1 Story	New 1-story classroom bldg for Extended Care (site of Unit #3)	#3 site	Not Completed	2	Need facilities for Extended Care to deconflict/ enable school use of its facilities after hours.	Extended care is currently housed in a portable, which was modernized summer of 2019.	
1	Safety+Growth	Restroom Modernization	Replace floor/wall tiles, new fixtures/lighting/cubicles.		Partial	4		Restrooms are functional and up to current code. Wall tile is dated. Limited scope.	
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical (HVAC) systems at bidgs being modernized		Not Completed		HG defers to others	Controls/BMS updgraded however units are nearing end of useful life	
2	Infrastructure	Hard-Court Play Area (new AC, AC overlay)	New AC at play area		Not Completed	1		Include in scope of modular removal and site projects.	
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade existing utilities if needed.		Not Completed		HG defers to others	Limited value. Site deficiencies recognized and addressed during completed projects. Consider on case-by-case basis with specific modernization projects.	
2	Infrastructure	Plumbing Upgrade (fixtures, egpt., domestic lines, end-svc if)	Replace existing plumbing eqpt. & domestic linesat bdgs being modernized. New fixtures include cat 1 (RR upgrade)		Not Completed	4	No concerns on campus	Classoom fixtures have been replaced.	
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paving, repair/reroof covered walkway, underground existing roof-mounted conduits		Not Completed		HG defers to others	Covered walkways repaired and refurbished (5-10 yrs service life left). Roof mounted conduits not relocated. Limited benefit to undergrounding conduits. Consider when time to replace roof.	
3	Enhancement	Shade Structures (assembly)	New 4500 sf shade structure in assembly area		Partial	1	Vision is for students to eat outside.	Still needed, not done.	
3	Enhancement	Existing Parking-Modify (stalls, asphalt- overlay/new)	Replace curbs, sidewalks, AC, stops, ramps		Not Completed	1	Reconfigure to address awkward vehicular flows through pickup/dropof/parking areas.	Still needed, not done.	
3	Enhancement	Landscape (frontage, programmatic spaces)	New hardscape/softscape at frontage, outdoor spaces (seatwalls/fencing). New garden area.		Not Completed	4	HG not aware of any concerns	Landscape is functional. Confirm with school & district if upgrade is a priority.	
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial	-	HG defers to others	Subject to District (electrical, cost) & School (shade structure) priorities.	
3	Enhancement	Energy Efficiency (mechanical, electrical, plumbing)	Upgrade mechanical/plumbing/electrical systems for energy efficiency for bidgs, being modernized (basic replacement under Cat 2).		Partial	-	HG defers to others	Controls/BMS done under phase 1 & 2. See HVAC replacement project.	
3	Enhancement	Existing Administration-Expansion	1900 of expansion of Admin Bldg. #1 (assumes adjoining Bldg. #2 is demo/rebuilt)	81	Not Completed	1	Need additional 3-4 offices for tutors, counseling services, CA.AC services. Privacy required.	Existing administration bldg modernized in 2018, not expanded.	
3	Enhancement	Athletic Fields (track, walking trail)	New decomposed granite or AC walking trail around playfield		Not Completed	2	Pathway is a good project to support P.E., and annual walkethon.	Condition of field is good. Confirm if trail is still needed or field surface to be changed.	

Prepared by Artik for MVWSD 1 of 2 Prepared by Artik for MVWSD 2 of 2

PROJECTS WORKSHEET Update to the 2010 Student Facilities imrpovement Plan Mountain View Winisman School District

		2010 Student Facilities In	nprovement Plan (SFIP) Projects							
PRI	PRIORITY CATEGORY PROJECT DESCRIPTIONS				CURRENT PRIORITY/NEED					
L-Safety & Enailment Growth 2-School Infrastructure 3-Educational Enhancement		PROJECT TYPE/CATEGORIES	PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)		
LANDELS ELEMENTARY SCHOOL 4 pt scale: 1-thigh to 4-Low, N4-Mot Needard										
OTHE	R PROJECTS STILL N	EEDED TO ADDRESS ANY PRIORITY AREA:	1) STUDENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL IN	FRASTRUCT	JRE, 3) EDUCA	TONAL PR	OGRAM ENHANCEMENTS			
2	Infrastructure	Existing Classrooms-Modernization		#1, 3-5		1	Need flexible, adaptable classroom spaces that con support differentiated learning.	Having adaptable, transparent and flexible spaces can encourage greater collaboration and bυγ-in to educational philosophy.		
2	Infrastructure	Existing MUR-Modernization		¥6		2		Existing MUR only allows for one activity at a time to occur in space. Need flexibility for concurrent activities, particularly for after hours use.		
2	Infrastructure	Technology Upgrade	Replace all fiber optic cables with <u>OMA</u> cables Replace all copper cables with <u>Castor</u> cables Repair network cabling	All		2	A4 upgrades available bandwidth to approx. 4,700 megahertz (approx. double existing) grade from Cutile copper, support higher bandwidth/data rates over longer distances. thism of network calling hard's worked alson being installed in 2018.			



T0# FROM# File Maria Madrigal/Gene Yong COMPANY# DATE### Student Facilities Improvement Plan (SFIP)/ 14 Aug 19 Ten-Year Master Plan Update Mountain View Whisman School District JOB NUMBER/REFERENCE NUMBER # SUBJECT# 02449 Interview Notes Principal-Mistral Elementary School 10:30am, Tuesday, 6 Aug 19

ATTENDEES

MISTRAL ELEMENTARY SCHOOL						
Mistral ES Tabitha Miller		Principal				
ARTIK (A3)						
A3	Gene Yong	Senior Project Manager				
А3	Maria Madrigal	Project Architect				

DISCUSSION NOTES

- 1. Administrative Bldg. Modernization
 - a. Need to address condition deficiencies in bldg.
 - b. Need a conference room.
 - c. School has sufficient space for specialist and counseling staff.
- As one of the District's two "Choice" schools (Dual Immersion), Mistral enjoys a very high level of parent engagement (similar to Stevenson ES). Landscape features around campus were contributed by the parent group.
 - a. Parents are willing to stretch boundaries, support rigorous instruction.
 - b. Foster innovation with students
 - c. Technological innovation enable greater global collaboration (i.e., AR, VR, videosharing, etc.)
 - d. Need flexible, modular facilities
 - e. Need for continuous training with staff
 - f. Foster inquiry-based, independent learning (i.e., open-ended questions/no right answers, freedom to learn/explore, school provides guided learning, teach content/enable exploration).

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MEMORANDUM

- 3. Need to provide work space and storage space for parent/community volunteers
 - a. Easily accessible from the front of the school
 - b. Segregated from staff areas, to minimize cross traffic between staff and parent/volunteers.
- 4. To address RTI, need more flexible classrooms that can foster greater collaboration among students and staff.
 - a. Need breakout spaces
 - b. Need larger spaces for PBL, STEAM and maker space activities
 - c. Better furnished and equipped (e.g., sinks, lab/workroom-type configuration)
 - d. Connected classrooms to enable easier movement between classroom spaces
 - e. Connect to the exterior environment
 - i. Lots of natural light
 - ii. Operable windows/openings
 - iii. Ability to be outside
 - f. Existing storage is adequate. Need to maintain storage in any future modernization.
- 5. Outdoor Learning/Living Classrooms
 - a. Ideal to have outdoor spaces configured and furnished for outdoor learning.
 - b. Living classroom program is popular with parents/students. Opportunities to expand.
 - c. Opportunity to integrate STEAM, farm-to-table type curriculum in outdoor settings.
 - d. Reconnect students to the natural environment (i.e. counter technology inundation of students).
- 6. Perimeter Controls
 - a. Campus is not secure.
 - b. Open to Latham Ave and Escuela Ave.
 - c. Staff has to regularly redirect/confront people coming onto campus.
 - d. If campus can be secured during school hours, it would free staff from having to monitor perimeter. Configure to single entry point at school office.
 - Need controlled perimeter along public frontages of campus (i.e., Escuela Ave., Latham Ave., Toft St.).
- 7. Safety Measures
 - a. PA system (existing system not fully functioning)
 - b. CCTV/monitor different points of campus from a single location
 - c. Motion sensors

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8. After school programs

- a. Vendors and school competes for space after school.
- b. Classrooms in Bldg. P. Library and MUR used by vendors.
- c. Shared use is very difficult since it requires continuous setup/breaking down to work.

9. Pickup/Dropoff

- Traffic flow (pickup/dropoff) is a major concern and requires active management by school staff during peak period. See school parking and traffic flow diagram.
- b. Parents naturally want to drop kids off in front of the school office and then return immediately to Escuela Ave.
 - Parents are prohibited from dropping students at the school office and from using the first return driveway to Escuela Ave. This area is coned off and staff have to keep parents moving to designated pickup/dropoff areas in from of the K Classroom hldp (#M)
 - ii. Parents are directed to curbside areas in front of the K Classroom and to egress through the driveway at the northern edge of the parking area.

10. Shared facilities

a. Difficult to share facilities like the MUR, library and after-school facilities among two schools (i.e., availability/programming, set up, break down, storage, clean up, etc.).

11. Shade Structure

a. Ideal for Mistral and Castro to each have their own, but can share one if necessary.

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Castro & Mistral Parking & Flow of Traffic Estacionamiento de Castro y Mistral & dirección del tráfico Escuela Avenue Escuela Avenue Staff Only Visitors / Visitantes Staff Only ESTUDIANTES DO NOT DROP OFF DO NOT DROP OFF STUDENTS HERE STUDENTS HERE Staff Only DO NOT EXIT CAR. NO BAJARSE DEL COCHE. Personal Visitors Parking/Estacionamiento de Visitantes Notes/Notas -There is only one entrance and one exit/Sólo hay una entrada y una salida No Parking/No Estacionarse -There are 16 visitor spots/Hay 16 lugares para visitantes Staffers Directing Traffic/Personal dirigiendo el tráfico -Please follow directions for safety./Favor de seguir las instrucciones. Staff Only Parking/Estacionmaiento del Personal -Never leave car unattended for any reason. No dejar su coche desatendido. Pedestrian Zone/Zona Peatonal -Parents should only be dropping off child in the designated drop off area/Los padres sólo deben dejar al niño en el área designada para dejarlo

	2010 Student Facilities Improvement Plan (SFIP) Projects							
PRIOF	RITY CATEGORY	PRO	JECT DESCRIPTIONS				CURRENT PRIORIT	Y/NEED
2-School In	Enrollerent Growth Frastructure rall Enhancement	PROJECT TYPE/CATEGORIES PROJECT NOTES SITE REFERENCE		PROJECT STATUS	PRIORITY			
MISTR	AL-CASTRO EL	EMENTARY SCHOOL						
PROJEC	TS FROM 2010 SI	FIP - NOT COMPLETED / PARTIALLY COMPLETED						
1	Safety&Growth	Play Cluster-Preschool	New play box, equipment, fencing, ac/turf		Partial		Preschool needs its own age- appropriate play areas.	at Latham, open space between modulars
1	Safety&Growth	Gas Upgrade (code compliance, underground lines)	Replace gas line (certain areas), gas shutoff valve/vacuum breaker.		Partial			Regulators replaced to existing classroom wings in 2017.
1	Safety&Growth	Fencing			Partial	1	Need secure perimeter during school hours, secure property after hours. Active mitigation now required.	At Latham Preschool Confirm with schools/district regarding public access from park side.
1	Safety&Growth	Restroom Modernization	Replace floor/wall tiles, new fixtures/lighting/cubicles.	#A-C #H-P	Partial	2	Dated, need modernization	Fixtures, partiations and flooring done in 2017. Tile is dated but functional
1	Safety&Growth	Signage, Drinking Fountains	New exterior drinking fountains (4), interior/exterior signage		Partial	2	Need replace drinking stations.	2 new drinking fountains installed in 2017 along with signage. 1 older one needs replacing
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical (HVAC) systems (only on bidgs being modernized)	#H, J-N, P	Not Completed	1		Controls/BMS upgraded in 2017. Units are existing, not sure on age.
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paving, repair/reroof covered walkway, underground existing roof-mounted conduits		Not Completed	3	Not critical.	Reroofing may be needed.
2	Infrastructure	Existing Administration-Modernization	Modernize existing Admin Bldg.	ATN	Partial	1	Reconfigure parent/ community room separate from faculty spaces.	Scheduled for summer of 2020
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, end-svc lf)	New plumbing fixtures in category 1 (RR upgrade) Replace existing plumbing lines/equipment (only on bidgs being		Not Completed	1	K Classrroom (brown water)	Fixtures replaced in classroms in 2017. No infastrucrue replacment done.
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade utilities if needed		Not Completed			Limited value. Site deficiencies recognized and addressed during completed projects. Consider on
3	Enhancement	Shade Structures (assembly)	New 4500 sf shade structure (assembly area)		Partial	1	None on campus. Can share with Castro/prefer own.	Still needed
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.
OTHER	PROJECTS STILL N	NEEDED TO ADDRESS ANY PRIORITY AREA: 1) STUDEN	T SAFETY & ENROLLMENT GROWTH, 2) SCHOOL INFRAST	RUCTURE, 3	B) EDUCATON	L PROGR		
		CASTRO-Admin Support Services Expansion	Create at least 4 additional offices for Title 1 specialists (psychologist, education specialist, vision/PT/OT, etc.).			1	No spaces currently available. Use open classrooms, workrooms and staff offices as workaround	Having adaptable, transparent and flexible spaces can encourage greater collaboration and buy-in to educational philosophy.
		CASTRO-Library Modernization/Expansion	Create instructional and break out spaces for small groups.			2	No instructional/break out spaces in library. Can locate student-oriented Title 1 spaces in library.	Existing MUR only allows for one activity at a time to occur in space. Need flexibility for concurrent activities, particularly for after hours use.
		CASTRO-Storage Expansion	Create additional general, classroom, and PE storage facilities.			1	Storage lacking for school, classrooms, and P.E. Add'l storage will free up MUR storage for MUR.	Having adaptable, transparent and flexible spaces can encourage greater collaboration and buy-in to educational philosophy.
		CASTRO-Staff Parking	Create staff parking area for up to 35 cars.			1	Existing space may be lost if add'l classrooms added.	Existing MUR only allows for one activity at a time to occur in space. Need flexibility for concurrent activities, particularly for after hours use.
2	Infrastructure	MISTRAL-Technology Upgrade	Replace all fiber optic cables with <u>OMA</u> cables Replace all copper cables with <u>Catfa</u> cables Create adequate-sized <u>MDF</u> form campus	All		2	Upgrade from Cat5e copper, support I MDF-Main Distribution Frame: signal of	approx. 4,700 megahertz (approx. double existing) higher bandwidth/data rates over longer distances. distribution frame connecting campus IT equipment to (transition from outside to internal systems).

Prepared by Artik for MVWSD 1 of 1

MEMORANDUM



TO⊯	FROM.#
File	Maria Madrigal/Gene Yong
COMPANY#	DATE#
Student Facilities Improvement Plan (SFIP)/	14 Aug 19
Ten-Year Master Plan Update	
Mountain View Whisman School District	
SUBJECT #	JOB NUMBER/REFERENCE NUMBER #
Interview Notes	02449
Principal-Monta Loma Elementary School	
9:00am, Tuesday, 6 Aug 19	
·	

ATTENDEES

MONTA LOMA ELEMENTARY SCHOOL					
Monta Loma ES	Gloria Higgins	Principal			
ARTIK (A3)					
A3	Gene Yong	Senior Project Manager			
А3	Maria Madrigal	Project Architect			

DISCUSSION NOTES

- 1. Monta Loma and Theuerkauf are formerly part of the Whisman School District. Both have a different architectural and landscaped character from other schools which were formerly part of the Mountain View School District.
 - a. More extensive landscaping, especially in courtyards.
 - b. Less standardized building types.

2. Perimeter Controls

- a. Campus is located alongside and shares use of Monta Loma Park.
- b. Campus has a perimeter fence around its buildings, but not around its parking lots, driveways or outdoor play areas.
- c. While the school and park abut residential properties on three sides, there are two pedestrian access points at the rear of the campus including a pedestrian path to Anna Ave/Elka Ave. and second path to Laura Lane.
 - i. These paths are open at all hours.
 - ii. School needs to have ability to close these off during school hours.

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- During school hours, the school buildings and outdoor play areas (e.g., playfield, playcourts, play structures) need to be secured.
 - i. Only exception may be the tot lot/play structure at the southern boundary of Monta
- e. After school hours, the school buildings need to be secured, but the parking, driveway and park areas can be accessible to the public.
 - There is an existing fence between school buildings which secures the buildings and the interior campus areas.
- f. Need to configure a perimeter fence and gate system to enable to the school to control the perimeter around both the school and the adjacent outdoor play areas.
 - i. Consider a more attractive fencing system (i.e., not chain link).
- School's RTI program will be emphasizing STEM. School wants to continue fostering collaboration and teaming among teachers.
 - a. Need higher functioning classrooms that can support STEM-based PBL (e.g., lab/workroom-type settings)
 - Need different-sized spaces to support teaching/collaboration in different sized groupings (i.e., small, large, etc.).
 - c. Provide flexible, operable partitions to enable classroom spaces to connect to each other.
 - i. Instructional time is diminished as students are reassigned/regrouped between

4. Maker Space

- a. Currently using art room as maker space, but not enough storage or space
- Computer lab in Bldg. M is underutilized. Consider adapting to a lab/workroom-type maker space. Space is open and enjoys a high ceiling with good light.
- c. Space needs to be configured to serve young students (K) as well as older students
- d. High priority based on instructional program
- e. Currently using classrooms in Bldg. L for art and STEM. Classrooms are too small and not configured/furnished to support these types of activities.

5. Library

- a. Main library space is very appealing (i.e., high bay, free span, large window walls, etc.)
 - Consider flexible furnishings so space can be easily adapted/converted for variety of uses (e.g., informal browsing, gatherings, meetings).
 - ii. Convert rear storage area as possible meeting/breakout space
- 6. Additional meeting/break out rooms
 - a. Currently have community room
 - b. Need 3-4 additional small meeting rooms (2-4 pns) for tutoring, counseling, psychologists.



MEMORANDUM

7. MUR

- a. Projection systems in the rooms lacking
- b. When MUR was expanded, MUR lost storage. MUR storage is now in a corner room at the SW corner of the MUR. If storage space was found elsewhere, the current storage room would be better used for other purposes (e.g., staff room, breakout room, community room).
- c. Provide external speakers into courtyard

8. SPED

- Two former K classrooms in Bldg. P are being converted for SPED-Autism classrooms (Special Day program)
- b. Sensory room desired for both general population and special education
- c. Plan is to create two sensory rooms by converting kitchen spaces between K classrooms.
- d. Additional restroom needs for special education in Bldg. P.
- e. Barriers are needed at rear doors to SPED classrooms
 - i. Keep children from running out of classrooms and onto adjacent playfields.
 - ii. Ensure easy passage/unobstructed path for emergency egress (i.e. panic hardware).
 - iii. Provide perimeter fence to separate park from classroom bldg.
 - iv. Add Front Row audio system for large meetings. Existing system is in school's conference room where it is not needed.
- f. Staff meetings (35-40 pns) are currently held in the library.

Outdoor Spaces

- a. School enjoys extensive landscaping in interior campus areas/courtyards.
- Opportunities to create better outdoor instructional/learning spaces (e.g., furnishings, shade/shelter, utilities, etc.) as part of the school's environmental education program.
- c. Campus has nice series of outdoor spaces from the MUR to the playfields, with the MUR courtyard transitioning to shade structures to the K-playground and the playcourts. Continuous line-of-sight throughout this area.

10. Play Areas

- a. Exterior play areas not addressed in previous bond measure (G)
- K play area is a high priority. Replace play equipment and ground surface, ensure accessibility and inclusion.
- c. Replace all playground equipment and improve ground surface.
- d. The playcourt areas have uneven and degrading ground surfaces.
- e. Additional shade structure is desired near MUR.

11. Parking and Pickup/Dropoff

- a. Parking and pickup/dropoff are adequate
- b. If enrollment grows significantly, additional parking may be needed.
- c. The bus pickup/dropoff may not be needed in the future (i.e., opportunity to reconfigure for more parking).

12. Storage

- a. Lack classroom storage, loss of built-in storage systems (i.e., shelving, cabinets, casework) when classrooms were modernization
- b. Extensive use of temporary storage sheds around campus, including parent storage for special programs
- c. Two portables (P1-P2) in the back are currently used by the District for storage
- 13. Trash enclosure is situated in an awkward, but very visible location at the front of campus in front of the MUR and K Classroom Bldgs (#K, #P).
 - a. Difficult for service vehicles to access (i.e., pull onto walkway in front of MUR).
 - b. Obstructs line of sight and pedestrian circulation along the front of school between the parent pickup/dropoff and the bus pickup/dropoff areas.

14. FF&E

a. Classroom and office furnishings are dated and need replacing.

15. Safety

- a. Fire Alarm: Fire drills are a workaround since it's a separate system
- b. Emergency preparedness
 - i. A Community Emergency Response Team (CERT) uses a storage shed at the back of the campus. It would be ideal if it was situated at a more central location so it could be more accessible to school staff.

16. Restrooms

- a. Gender neutral restrooms needed throughout campus.
- b. Convert single occupancy staff restrooms to gender neutral.

17. Miscellaneous Concerns

- a. Majority of drinking fountains are outdated and should be replaced
- b. Standardize outdoor backpack hooks.
- c. Create bike storage enclosure. Currently using bike racks in school area.
- d. HVAC needs to be upgraded.

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PROJECTS WORKSHEET Update to the 2010 Student Facilities Improveme Mountain View Whisman School District

	2010 Student Facilities Improvement Plan (SFIP) Projects									
PRIORITY CATEGORY		ORY PROJECT DESCRIPTIONS					CURRENT PRIORITY/NEED			
L-Safoty & Errollment Growth 5-School Infrastructure 5-Educational Enhancement		PROJECT TYPE/CATEGORIES	PROJECT NOTES	SITE REFERENCE	PROJECT STATUS PRIORITY		NOTES	NOTES (STATUS)		
MONTA	LOMA ELEM	ENTARY SCHOOL								
PROJECTS	FROM 2010 SI	PIP - NOT COMPLETED / PARTIALLY COMPLETE	D							
1	Safety+Growth	Play Cluster (asphalt, turf, play structures)-Kindergarten	New play box/rubber surface, play structure, fencing, AC/turf		Not Completed	1	Repair/replace ground surface	Still needed		
1	Safety+Growth	Play Structures-Grades 1-3/4-5	New play structures (2), play box rubber surface (2)		Not Completed	2	Replace aging play equipment. Replace wood chips with accessible, durable, safe surface.	Still needed		
1	Safety+Growth	Fencing	New 8' perimeter fence, gates, plus garden fence		Not Completed	1	Secure rear access into playground area (2 community entrances)	Rear fence needs replacing. Confirm with school/district on perimeter controls needed.		
1	Safety+ Growth	Gas Upgrade (code compliance, underground lines)	Allow for gas shutoff valve/vacuum breaker		Not Completed			Still needed		
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical (HVAC) systems at bldgs being modernized		Not Completed			Controls/BMS upgraded in 2017/2018. Units at en of useful life.		
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, end- svc lf)	Replace existing plumbing eqpt. & domestic lines at bdgs being modernized. New fixtures include cat 1 (RR upgrade)		Not Completed			Fixtures replaced with modernization projects. Replacement of concealed plumbing lines would be quite costly and require ripping open new finishes.		
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade existing utilities if needed.		Not Completed			Need survey, stormwater concerns apply.		
2	Infrastructure	Hard-Court Play Area (new AC, AC overlay)	New AC at play area		Not Completed	1	Repair/replace ground surface (cracking, uneven)	Still needed		
2	Infrastructure	Existing Library-Modernization	Modernize Library and Computer Lab Bidg.	MM	Partial	1	Reconfigure existing computer lab- into active lab/workroom for science and other PBL collaborative activities (maker).	New flooring and paint in 2017.		
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paving, repair/reroof covered walkway, underground existing roof-mounted conduits	#A,C,D E,F,H	Partial			Dryrot repair and reconfiguration completed in 200 Conduits not re-routed underground.		
3	Enhancement	Shade Structures (assembly)	New 4500 sf shade structure in assembly area		Not Completed	1	Add in courtyard next to MUR.	Still needed.		
3	Enhancement	Athletic Fields (track, walking trail)	New decomposed granite or AC walking trail (5' wide) around playfield		Not Completed			Confirm if still priority by school/district.		
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.		
3	Enhancement	Energy Efficiency (mechanical, electrical, plumbing)	Upgrade mechanical/plumbing/electrical systems for energy efficiency for bidgs, being modernized (basic replacement under Cat 2).		Partial			Controls/BMS completed with modernization projects. See HVAC replacement project.		
3	Enhancement	Existing Parking-Modify (stalls, asphalt-overlay/new)	Replace curbs, sidewalks, AC, stops, ramps, landscaping		Not Completed			Rear parking lot only/ AC overlay, Parking and pict up/drop off reconfigured in 2017.		

Prepared by Artik for MVWSD 1 of 2

		2010 Student Facilities In	provement Plan (SFIP) Projects					
PRIORITY CATEGORY PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED					
Safety & Employment Growth 2-Octobed Inflactuations PROJECT TYPE/CATEGORIES 3-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		PROJECT TYPE/CATEGORIES	PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)
MONTA L	OMA ELEM	ENTARY SCHOOL						
OTHER PRO	JECTS STILL N	EEDED TO ADDRESS ANY PRIORITY AREA: 1) S	TUDENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL INFRASTR	UCTURE, 3)	EDUCATONAL I	PROGRAM	1 ENHANCEMENTS	
2	Infrastructure		Run network cabling behind TV in each classroom Run network cabling to mount APs in center of each classroom Replace all copper cables with <u>Catfor</u> cables	All			AP: Assume Wireless Access Point (WA Upgrade from Cat5e copper, support h	P)/District standard (WiFi) igher bandwidth/data rates over longer distances.

Prepared by Artik for MVWSD 2 of 2

MEMORANDUM



T0# File	FR0M# Maria Madrigal/Gene Yong
COMPANY#	DATE#
Student Facilities Improvement Plan (SFIP)/	31 Jul 19
Ten-Year Master Plan Update	
Mountain View Whisman School District	
SUBJECT#	JOB NUMBER/REFERENCE NUMBER #
Interview Notes	02449
Principal-Stevenson Elementary School	
9:00am, Tuesday, 30 Jul 19	

ATTENDEES

STEVENSON ELEMENTARY SCHOOL								
Stevenson ES	Ryan Santiago	Principal						
ARTIK (A3)								
A3	Gene Yong	Senior Project Manager						
A3	Maria Madrigal	Project Architect						

DISCUSSION NOTES

- 1. RS was previously an assistant principal at Graham MS and a principal at Theuerkauf ES.
- 2. Stevenson ES is one of two Choice Schools in MVWSD. Mistral ES is the other.
 - a. Mistral ES is a Dual Immersion program (English/Spanish)
 - b. Stevenson ES is a Parent, Child, Teacher or PACT program
 - i. The program features extensive collaboration between teachers and parents and inquiry-based, hands-on project-based learning. Parent participation in the school, including classrooms, is welcomed and expected.
 - ii. Emphasis is on more holistic, non-traditional learning (i.e., indoors, outdoors, field trips/off-site, gardens, kitchens, etc.).
 - c. As a Choice School, parents elect to be a part of the PACT program. More than half of Stevenson's students come from outside its immediate neighborhood.
 - d. Stevenson enjoys significant parent/family participation (80%) in school-wide activities (e.g., PBL/exhibition night, silent auction, socials). Parent engagement is very high and beneficial to the school.

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- 3. Stevenson ES is supported by a foundation (PACT Foundation) that is registered as a 501(c)3 non-profit. The foundation oversees volunteerism, volunteer committees and collaborates with the school on supporting activities. All parents, teachers and staff are eligible members of the foundation. The foundation functions in lieu of a Parent-Teacher Association (PTA), unlike other MVWSD schools.
- 4. RS provided the following observations of the campus.
 - a. Campus facilities are new and functional, but the overall character is lacking, particularly with regards to landscaping. RS referenced the outdoor courtyard area by the auditorium at Graham MS and the courtyard at Theuerkauf as the kind of spaces lacking from the school.
 - b. Facilities which appear to work well include:
 - Administrative Bldg: centrally located, staff lounge, consolidated staff facilities, adequate offices, meeting rooms
 - Library: furnishings, functionality, center of school community, interactive, flexible space where parents can teach, conducive to small groups; more dynamic than typical libraries
 - iii. Parking: layout seems ok. Congestion may be an issue since parking and pickup/dropoff activity is in the same area. RS referenced Monta Loma ES as a good example where staff parking and parent pickup/dropoff are in separate areas.
 - c. Areas of need include the following (extensive workarounds apply):
 - Material storage (educational/classroom/PACT): A classroom (room no. 21) is used for material storage. Only other available space are the IDF rooms (utility rooms, intermediate distribution frame), which are not appropriate for storage.
 - School is expected to grow and will need all available classroom space for instruction (i.e., cannot use for storage).
 - <u>Large staff meetings</u>: No place for entire staff to meet (40 pns). Spaces are either too small (admin meeting room), too large (MUR), not configured (library), or not readily available (classrooms).
 - iii. <u>Garden:</u> PACT and staff have created the raised planting boxes because ground was not suitable for gardening plots. School is looking to expand gardening.
 - STEAM Education: Classroom nos. 18 and 19 are used for STEAM. Staff have reconfigured furnishings to support more workshop, creative, hands-on instruction, but space was not configured to do so.
 - 1. Need purpose-built space that is flexible and collaborative.
 - v. <u>Instructional Kitchen:</u> Existing space in Admin. Bldg: works well functionally but is
 - MUR: facility is affected by direct sunlight in afternoon and morning (SW and SE full height/clerestory windows) and lacks fixed production/A-V systems to support performances.
 - vii. <u>Outdoor shaded and landscaped spaces</u>: tents are used in center of campus courtyard. There is no landscaping on campus.



MEMORANDUM

- 5. The following spaces/facilities are needs the following:
 - a. Community/PACT Work Space
 - Parent involvement is a very large part of school culture. Parents are welcomed and involved in education and teaching. As members of PACT, parents are expected to volunteer on campus.
 - Need a "community room" that can be both a collaborative work space for parents/teachers and a place to store materials for both.
 - iii. Need storage for parent work space, room 21 is about ¾ material room owned by parents to support cooking, garden, arts focus program (hands on experiences led by parents). Need that classroom for instructional space

b. Storage Facilities

- With the school's emphasis on project-based, hands-on, creative learning, there is a significant need for storage for related materials.
- ii. Creating storage facilities will free up other spaces for their intended purposes (e.g., classrooms).
- c. Expanded/Flexible Learning Environments
 - Need classrooms which are more collaborative and flexible (e.g., maker space, workshop, labs, etc.), especially for STEAM.
 - $ii. \quad \hbox{\bf Extend classroom space into adjoining exterior spaces}.$
 - iii. Enable greater collaboration between classrooms

d. Landscaped Outdoor Spaces

- i. Expanded garden areas. Gardening is engrained in the curriculum.
- Courtyard Area: create shaded, more relaxed and softer exterior environment. RS referenced Theuerkauf ES' courtyard areas (e.g., differentiated landscaped areas).
 Create outdoor landscaped learning spaces (e.g., living classrooms).
- iii. Landscape exterior spaces between classrooms (e.g., trees, shade, furnishings) to extend and integrate classroom learning into the surrounding environment.
- iv. Add shade and landscaping around the play structures.
- e. Large Shade Structure: centrally situated within courtyard.
- 6. Others who have been involved with the school for a longer period of time may be able to offer good insights into the questions being asked by A3 (e.g., foundation, past principals, etc.). RS will reach out to the CBO (formerly the principal at Stevenson ES) for guidance on any further communications.

	2010 SFIP Projects							
PRIORITY CATEGORY PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED					
1-Safety & Enrollment Growth 2-School Infrastructure 3-Educational Enhancement		Туре	PROJECT NOTES	SITE REFERENCE	CURRENT STATUS	PRIORITY	NOTES	NOTES (STATUS)
STEVE	SON ELEMENT	ARY SCHOOL						
PROJEC'	TS FROM 2010 SFII	- NOT COMPLETED/PARTIALLY COM	IPLETED					
1	Safety+Growth	Fencing	Add perimeter fence/gate to control access from park.		Partial	1		Campus is open to park at back of school.
2	Infrastructure	Technology Upgrades	Replace IDF cabinet in library with larger cabinet to fit equipment. Run copper cabling to FrontRow devices in each classroom. Install FrontRow conductor for the PA system		Partial	2	IDF: Intermediate Distribution Frame, distribution point from MDF to cables connecting to on-site equipment. Copper cabling assumed to be Cot6a.	
3	Enahancement	Shade Structures (assembly)	New 4500 sf Shade Structure		Partial	1		Still needed
3	Enahancement	Landscape (on-site)	Create differentiated exterior landscaped environments/outdoor learning/living classrooms		Partial	1		Introduce landscape, shade, furnishings to create formal and informal gathering, play and instructional spaces.
3	Enahancement	MUR Modernization	Add shade devices to SW/SE windows Upgrade A-V		Partial	3		Mitigate glare from afternoon and morning sun in MUR. Enable A-V set up close-in to screen.

Prepared by Artik for MVWSD 1 of 1

MEMORANDUM



TO:	FROM:	
File	Maria Madrigal/Gene Yong	
COMPANY:	DATE:	
Student Facilities Improvement Plan (SFIP)/	29 Jul 19	
Ten-Year Master Plan Update		
Mountain View Whisman School District		
SUBJECT:	JOB NUMBER/REFERENCE NUMBER:	
Interview Notes	02449	
Principal-Theuerkauf Elementary School		
10:00am, Monday, 29 Jul 19		

ATTENDEES

THEUEKAUF ELEMENTARY SCHOOL								
Theuerkauf ES Swati Dagar Principal								
ARTIK (A3)								
A3	Gene Yong	Senior Project Manager						
A3	Maria Madrigal	Project Architect						

DISCUSSION NOTES

1. Classrooms

- a. Existing Conditions
 - i. Even with recent upgrades, classrooms are still dated, undersized and inflexible.
- b. Future Vision
 - i. Expand classrooms to enable flexible configuration of furnishings and spaces.
 - ii. Improve connectivity between classrooms and with the adjacent outdoor spaces.
 - 1. Consider flexible partitions between classroom spaces which are also soundproof.
 - 2. Outdoor spaces can be extensions of the classrooms but need to be allweather (i.e., cool, shaded, sheltered).
 - iii. Create larger, more open spaces to foster collaboration and project-based learning.
 - iv. Foster collaborative/team teaching. Create teaching/learning environments which encourage collaboration.
 - v. Develop outdoor learning environments.

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2. Industrial Arts/Career Skills

- a. Need to provide instruction in real-world, hands-on skills, especially for students who may not go on to typical Silicon Valley type professional careers (e.g., high-tech, law, etc.)
- b. The school's workshop-type space is limited to a classroom with a big screen.
- c. School needs a purposefully configured workshop/lab-type space where students can learn real-world skills (e.g., woodworking, fabrication, production, etc.).

3. Faculty & Staff Spaces

- a. Office and staff facilities are OK.
- b. Create an outdoor dining area for faculty that is isolated from students and inviting.
 - Potential for the courtyard area next to Bldg. F. Space is now used for storage.
 Need to landscape and furnish to make more inviting.
 - ii. Space for informal interaction and collaboration.

4. Admin Support, Office and Storage

a. Spaces are adequate on campus.

5. Drinking Stations

- Need more drinking fountains with filling stations throughout campus, and especially in the back of campus by Buildings C, D and E. Add drinking stations outside restrooms at Bldgs. D and F.
- b. The school has only one drinking station with a filling station outside the MUR bldg.

6. Parking, Pickup/Dropoff

- a. School shares pickup/drop-off with the Google Preschool
 - i. Preschool drops off at 8:00am. Parents park and walk preschoolers into school.
 - ii. This is the same period as the drop-off activity for Theuerkauf students.
- Congestion and conflicting use of staff parking stalls by preschool parents is an issue that needs to be addressed.
- c. Need to find a permanent solution which deconflicts movements between the schools and the different types of activity (e.g., staff parking, parent pickup/dropoff).

7. Perimeter Fencing

- a. The school's play areas are exposed to, and accessible from the park and public paths from San Pierre Way and San Luis Ave. during school hours.
 - The school has exclusive use of its play areas during school hours, but it is difficult to enforce and members of the community access or cross these areas regularly during school hours.
- b. The School only has a perimeter fence around its buildings (A, B, C, D, E, G, H).
- c. Need a fence around play areas so school can control access during school hours (playcourts, play structure, etc.).



MEMORANDUM

8. Play structures

a. Dated and need replacing, especially the K play equipment.

9. Campus Lighting

a. Campus has minimal lighting. Need campus lighting project for site and parking areas.

10. Shade Structure

a. There is no shade structure on campus, parents waiting outside have no shelter, some trees were recently cut down, no lunch shade structure

11. Plumbing

a. Blockages are regular occurrences. Need to upgrade.

12. Library

a. Opportunity to create a more collaborative space.

13. Landscaping

a. Need more green in the front of the campus, make more inviting, planters for classroom adoption, furnishings don't support student activity in outdoor settings.

14. Create an Outdoor Living Classroom

Landscaping, collaborative furnishings, teaching board (white board/screen), covered/all-weather, benches, utilities (e.g., water, sink, electrical, data).

		2010-00-0	Mountain View Whisman !	school bistri	ct (IVIV VVSD)			
PRIORITY	CATEGORY	2010 SFIP Projec	ECT DESCRIPTIONS				CURRENT PRIORI	
1-Safety & Enro 2-School Infrast 3-Educational E		Туре	Type PROJECT NOTES SITE REFEREN		PROJECT STATUS	PRIORITY	(6/25/19 NOTES	NOTES (STATUS)
THEUERK.	AUF ELEMEN	TARY SCHOOL						
PROJECTS F	ROM 2010 SFIR	P - NOT COMPLETED/PARTIALLY COMPLETED						
1	Smart&Growth	Separate Parking, Pickup and Bus Loading Areas	Replace curbs, sidewalks, AC, stopsramps, landscaping		Not Completed	1	Deconflict Google Preschool and Elementary School dropoff and parking.	Improve circulation with joint use of site with Google preschool.
1	Smart&Growth	Play Cluster (asphalt, turf, play structures)-Kindergarten	New play box/surface, play structure, fencing, turf		Not Completed	1	Replace and include turf	Replace aging play structures
1	Smart&Growth	Play Structures-Grades 1-3/4-5	New play box/surface, play structure (2)		Not Completed	3		Replace aging facilities
1	Smart&Growth	Campus Lighting	Exterior light fixtures controlled by photocells/time cloics via low voltage control panel. Parking lot has adequate lighting for pedestrian safety.		NA	1	Minimal site lighting on campus.	Site and parking lighting deficiencies/concerns apply.
1	Safety& Growth	Building Structural Upgrade	Structural upgrades to Bidg #F (shear upgrade) and G [shear upgrade/longitudinal wall]	#F, #G	Partial			No upgrades were completed for Bldgs. F and G. Confirm if needed.
1	Safety& Growth	Restroom Modernization	Replace flooring, wall tiles, fixtures, lighting, cubicles	яа-н	Partial	4	Not a priority	Still needed. Less work completed on restrooms than at H/B/L schools.
1	Smart&Growth	Electrical Upgrade	Electrical repairs, replace panel (no electrical system upgrade required).		Not Completed			
1	Smart&Growth	Fencing			Completed	2	Secure perimeter outdoor play areas (playcourts, play structure)	
1	Smart&Growth	Site Accessibility Upgrade (Ramps)	Path-of-travel, drinking fountains, signage are code compliant		NA			New ramp to parking, path of travel at Bidg. G, add1 non- compliant thresholds.
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical systems (end of service life)		Not Completed	1		Classrom units reaching end of useful life
2	Infrastructure	Hard-Court Play Area (new AC, AC overlay)	New AC at play area		Not Completed	4		Still needed.
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, end-svc If)	New fixtures (cat. 1/rr upgrade), replace plumbing lines & equipment		Not Completed	1	Frequent blockages on campus. Assume upgrades need to extend beyond building to inloude site plumbing. Sanitary drain lines.	Replacement of concealed plumbing lines not completed, would be quite costly, require ripping open new finishes.
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade utilities if needed		Not Completed			Umited value. Site deficiencies recognized and addressed during completed projects. Consider on case by case basis with specific modernization projects.
2	Infrastructure	Existing Library-Modernization	Modernize existing library		Partial	2	Make more collaborative spaces	Flooring and paint done in 2018. Casework functional/dated.
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Roof system in good condition, no roof-mounted eqpt./conduits		NA			See Roof survey and service life of existing roof/need for replacement
3	Enhancement	Existing Classrooms-Modernization		AC,D,E,F, G,H	Completed	2		
3	Enhancement	Existing Parking-Modify (stalls, asphalt-overlay/new)	Repair or replace curbs/sidewalks/surface, stops, ramps, landscaping as needed		Not Completed	1	Dedicated pickup/dropoff areas for elementary school and preschool	Improve circulation with joint use of site with Google preschool.
3	Enhancement	Shade Structures (assembly)	New 4500 sf shade structure		Partial	1	None on campus.	Still needed.

Prepared by Artik for MVWSD 1 of 2

PROJECTS WORKSHEET Update to the 2010 Student Facilities Improvement Plan (SFIP) Mountain View Whisman School District (MVWSD)

	Modulati Net Wildings (1974)									
		2010 SFIP Proje	cts							
PRIORITY CATEGORY PROJECT DESCRIPTIONS					CURRENT PRIORITY/NEED (6/25/19)					
1-Safety & Enrollment Growth 2-School Infrastructure 3-Educational Enhancement		Type PROJECT NOTES		SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES	NOTES (STATUS)		
THEUERK	AUF ELEMEN	NTARY SCHOOL								
3	Enhancement	Landscape (frontage, programmatic spaces)	New hardscape/softscape at frontage, outdoor spaces, garden areas		Not Completed	2				
3	Enhancement	Alternative Energy-Solar Panels	New solar panel installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.		
3	Enhancement	Energy Efficiency (mechanical, electrical, plumbing)	Upgrade mechanical, plumbing, electrical systems for energy efficiency		Partial			Controls/BMS upgraded in 2018 See HVAC replacement project		
OTHER PRO	DIECTS STILL N	EEDED TO ADDRESS ANY PRIORITY AREA: 1) STUD	ENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL	OL INFRASTR	UCTURE, 3) I	DUCATON	AL PROGRAM ENHANCEMENTS			
2	Infrastructure	Technology Upgrade	Replace all fiber optic cables with <u>OM4</u> cables Replace all copper cables with <u>Cat6a</u> cables Replace IDF in Bldg. E	Al		2	OM4 upgrades available bandwidth to approx. 4,700 megahertz (approx. double existing) Upgrade from CatSe copper, support higher bandwidth/data rates over longer distances. Need larger Intermediate Distribution Frame to can accommodate network equipment.			
3	Enhancement	Existing Classrooms-Modernization		#C,D,E,F, G,H		2	Provide connectivity between classrooms and with outdoors.	Provide operable interior and exterior walls. Expand classroom spaces to enable more flexible configurations within space.		
3	Enhancement	Outdoor Living Classroom				1	Create outdoor living classroom, all- weather, utilities, landscaped.			

Prepared by Artik for MVWSD 2 of 2



TO#	FROM.#	
File	Maria Madrigal/Gene Yong	
COMPANY#	DATE#/#	
Student Facilities Improvement Plan (SFIP)/	14 Aug 19	
Ten-Year Master Plan Update		
Mountain View Whisman School District		
SUBJECT#	JOB NUMBER/REFERENCE NUMBER #	
Interview Notes	02449	
Principal-Crittenden Middle School		
9:00am, Wednesday, 7 Aug 19		

ATTENDEES

CRITTENDEN MIDDLE SCHOOL								
Crittenden MS	Sonia Gomez Morales	Principal						
ARTIK (A3)								
А3	Gene Yong	Senior Project Manager						

DISCUSSION NOTES

- 1. Campus security is a big concern.
 - a. Campus is not secure.
 - b. While there is fence around the school, there are multiple gaps in the following areas:
 - i. Rock Street (no gates or fences at locations below)
 - 1. Between Bldg. 100 and driveway/bike enclosure
 - 2. Between Bldg. 700 & 100
 - 3. Between Bldg. 700 & 800
 - ii. Permanente Creek Trail
 - Service gate between the portable (P1) and track/field. Closed during school hours.
 - iii. Middlefield Road.
 - Multiple pedestrian gates along Middlefield Road providing access to the track and baseball/softball field. These gates are signed but not closed during school hours.
 - 2. Pickup/dropoff and parking area by the gym has open access to areas south of the gym (leading to the track) and north of the gym (leading to the

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MEMORANDUM

school's courtyard). No fence or gates controlling access from these areas onto campus.

- c. Community treats track, gym and baseball field along Middlefield as park facilities, though the school has exclusive use during school hours. Difficult to enforce or prevent access during school hours since there are only signs and no control gates.
- d. While the Admin office has frontage onto Rock Street, the main campus entrance for most families is from Middlefield Road. The parking and pickup/dropoff areas from Middlefield Road are not visible from the Admin offices.
- 2. Enrollment at the school is 655 for grades 6-8.
 - a. Capacity for the school is 730.
- Classroom availability is adequate, but will be challenged if enrollment goes back to, or exceeds capacity. School is running out of classrooms.
- While the number of classrooms is adequate, the school needs more project-based learning (PBL) type classrooms to support STEAM and science-based curriculum.
 - a. Bldg. 100 is the arts classroom bldg. but is poorly configured for art (i.e., too small, lack of storage/drying racks, etc.).
 - Bldg. 200 is a two-story classroom building that anchors the west end of the school's main courtyard. While this is a relatively recently built building (early 2000s), it is awkwardly configured and poorly designed and is underutilized.
 - There are only two classrooms on the second floor. Neither are being used as classrooms. One is too large and the other is too small. School is reluctant to schedule only 1 class on the floor since it is so isolated (i.e., safety)..
 - ii. There is excessive noise transmission from activity on the end floor to the ground floor spaces due to excessive spans in the upper level's floor.
 - iii. The ground level classrooms were designed as a hub with a center classroom and six surrounding classrooms. The center classroom, as well as one other classroom are not directly accessible from the exterior and require passage through one of three classrooms. The center classroom is accessible to only three of the surrounding six classrooms.
 - c. Bldg. 400 is a new two-story Innovation Center/Library/Classroom building which works well as a flexible, adaptable instructional facility that encourages inquiry- and project-based collaboration and teaming. Math is primary area of instruction in bldg. The large common space is heavily used.

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5. P.E. needs a classroom.

- a. It should be located near the gym and/or locker/changing rooms.
- b. P.E. currently has to find empty classroom anywhere on campus to teach classes.

6. Auditorium

 Eventhough new, lighting and sound system needs to be upgraded to match school's production expectations.

7. Drinking fountains

- a. All drinking fountains except at the new buildings (#400, #600) need replacing.
- 8. The eastern portion of the campus extending from Bldg. 700 to Bldg. 1000, encompassing the MUR, Kitchen, Snack Shop, Lockers, and MOT Transportation Yard has a lot of conflicting movements which are occurring on an unplanned, ad hoc basis including:
 - a. Service access to the Kitchen alongside the auditorium's main entrance and parking area.
 - A major parent/visitor pickup/dropoff and parking area alongside the locker rooms and the MOT transportation yard.
 - c. The Snack Shop's service area oriented to a small courtyard next to the service yard for the kitchen, with constrained access through a narrow passage between Bldgs. 800 and 900.
 - d. Unintended school entry corridors between Bldgs. 700/100/800 and 1000/1100.
 - The lack of major public functions (e.g., Admin, MUR) oriented to major public spaces (e.g., courtyard, pickup/dropoff, parking).
- 9. Traffic flow is a major issue on campus.
 - a. While Rock Street is the designated front of the campus, there is very limited parking and pickup/dropoff capacity in front of the Admin. Offices.
 - b. The parking area off Rock Street in front of the Auditorium is also used as a pickup/dropoff area. This area is not visible to Admin.
 - c. The main parent pickup/dropoff area is off Middlefield Road at the gym and lockers (Bldgs. 1000/1100). This area is not visible to Admin.
 - d. Parents used to cut from the Middlefield Road through the parking lot to Rock Street as a shortcut to the freeway and Rengstorff. School now uses a gate to block this through-traffic to improve pedestrian safety (i.e., speeding).
- 10. Though off-site, a major safety concern is the pedestrian crossing at Terra Bella Ave. along Middlefield Road. This is a wide, unsignalized intersection with heavy vehicle traffic in the mornings (i.e., shortcut from Shoreline Blvd. to Middlefield Rd./campus). Need to address (note: assume this will be addressed during Terra Bella detailed planning, design and redevelopment).

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PROJECTS WORKSHEET Update to the 2010 Student Facilities Improvement Plan Mountain View Whisman School District

	2010 SRP Projects								
PRIC	DRITY CATEGORY		PROJECT DESCRIPTIONS				CURRENT PRIORITY/NEED		
2-School	1-Safety & Enrollment Growth 2-School Infrastructure Type 3-Educational Enhancement		PROJECT NOTES	SITE REFERENCE	CURRENT STATUS	PRIORITY			
CRITT	ENDEN MIDDLE	CHOOL							
PROJE	CTS FROM 2010 SFII	- NOT COMPLETED/PARTIALLY COM							
1	Safety+Growth	Electrical Upgrade	Replace existing panel w/ add 1 breaker capacity, allow for electrical repairs (1-way switching).		Not Completed			3-may switching part of modernization projects. Panels not completed.	
1	Safety+Growth	Signage, Drinking Fountains	Add marquis at Middlefield ftd pickup/dropoff. Replace all drinking fountains at older bldgs.		Partial	1	Lack of info for parents at Middlefield Rd. pickup/dropoff (main pickup/dropoff). Aging drinking fountains at older bidgs.	Completed with campus modernization projects (Ph. 1)	
1	Safety+Growth	Fencing	Add fencing and gates to gaps in perimeter (bldgs. 100, 700, 1000, creek trail, Middlefield bd.)		Partial	1	Multiple uncontrolled entry points from parking areas, roads, trails.	Completed with campus modernization & new projects (Ph. 1-3)	
1	Safety+Growth	Restroom Modernization	Replace flooring, wall tiles, firtures, lighting, cubicles		Partial	3		Exhaust fars and lighting done in 2014. No work to flutures, partitions of floor/wall finishes.	
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical systems in bldgs being modernized		Not Completed			HVAC systems at end of service life.No work done. Still needed.	
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines)	Replace existing plumbing eqpt, & domestic linesat bdgs being modernized. New fedures include cut 1 (RR upgrade).		Not Completed			No work done: Still needed.	
3	Enhancement	Locker Room-Replacement	New 1-Story Locker Room		Not Completed	1	Meed new locker rooms.	Needs to be modernized	
3	Enhancement	Shade Structures (assembly)	New 6000 of shade structure		Not Completed	ž	Add additional shade structure in main courtyard area.	Still needed	
1	Safety+Growth	Gas Upgrade (code compliance, underground lines)	Allow for gas shutoff valve/vacuum breaker		Not Completed			Still needed	
1	Safety+Growth	Building Structural Upgrade	Structural Upgrade to Bidg. nos. 3 & 7	#300,700	Not Completed			Phase 1 modernized Bldgs. 300 and 700 in 2014. Confirm if still needed.	
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade existing utilities if needed.		Not Completed			No work done, Limited value. Consider need on case-by-case basis for specific projects.	
2	Infrastructure	Existing MUR-Modernization	Modernite existing MUR (5930 sf)	V900	Partial	1	Orient towards main courtyard. Relocate/reconfigure snack shop for easier access from main courtyard.	New flooring, pocket tables and paint installed in 2016. Upgrade AV, lighting, hardware to match district standards.	
2	Infrastructure	Existing Administration-Modernization	Modernite existing Admin space in Classroom Bldg (#100)	¥100	Partial			Priority for school. Admin modernized in previous bond (early 2000s).	
3	Enhancement	Alternative Energy-Solar Panels	New Solar Panel Installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.	
1	Safety+Growth	Separate Parking, Pickup and Bus Loading Arcas	Poplace curts, sidewalls, AC, pavers, stops, camps, signage landscaping. New trash excissore.		Not Completed	1	Recordigure vehicular drivewore/ pickop-dropoff, improve Bonc/releve congestion, Improve podestrian sudety, decordific vehicle/podestrian movements. Terra Bella New, Interestein with Middleffeld Road is an unsignalized intersection that is also major pedestrian roate for students. Safety concern.	Parking areas around Auditorium completed. Trash exclosure required/exclusived. Pik hap/droped (and completed. Confirm if still medel.	
1	Safety+Growth	Site Accessibility Upgrade (Ramps)	Path-of-travel deficiencies (thresholds, steep slopes, 2nd colts). Drinking fountains/signage non-compliant. See SHP Project no. 3 (fillig accessibility)		N/A	3	Address open rail at ramp to track/field from playcourts.		

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	2010 SFIP Projects									
PR	ORITY CATEGORY		PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED				
2-School	& Enrollment Growth Infrastructure Biorul Enhancement	Type	PROJECT NOTES	SITE REFERENCE	CURRENT STATUS	PRIORITY	NOTES	NOTES (STATUS)		
CRIT	TENDEN MIDDLE	SCHOOL								
2	Infrastructure	Existing Kitchens-Modernication	Modernize existing totchers (4340 sf)	A800	Partial			New walk in fridge and freezer installed in 2016. Confirm with District any upgrades necessary (food service director).		
2	Infrastructure	Security System Upgrade	Add system which allows principal/asst, principal to access the PA system from anywhere on campus.	¥100-1100	Partial	1	Existing PA system accessible from only 1 location (Admin). Need mobile system so Principal/Asst Principal can access system from anywhere on campus. Comern about accessing system if not at, or cannot reach Admin. Bldg.	Completed with campus modernization & new projects (Ph. 1-3)		
3	Enhancement	Auditorium-New		A600	Completed	3	Upgrade A-V/sound system in auditorium	New auditorium completed in Ph. 3		
3		Existing Parking Modify (stalls, asphalt- overtry/new)	Replace curbs, sidewalls, AC, pavers, stops, ramps, signage landscaping.		Not Completed	1	Reconfigure vehicular driveways/ pickup-dropoff, improve flows/relieve congestion. Improve pedestrian safety, deconflict vehicle/pedestrian flow.	Parking areas around Auditorium completed. Trash enclosure repaired/returbished. Pickup/dropoff not completed. Confirm If still needed.		
3		Energy Efficiency (mechanical, electrical, plumbing)	Upgrade Mech/Elec/Plumbing systems for energy efficiency		Partial			HVAC controls and lighting upgraded from 2014 to 2018. See HVAC project.		
3	Enhancement	Landscape (frontage, programmatic spaces)	New hardscape/softscape at frontage, outdoor spaces (seatwalls/fencing). New garden area.		Partial	2	Improve landscaping/furnishings in main countyaed and between bldgs.	Landscape is functional. Confirm with School/District If priority.		
OTHE	R PROJECTS STILL NE	EDED TO ADDRESS ANY PRIORITY ARE	A: 1) STUDENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL IN	FRASTRUCT	URE, 3) EDUCATO	ONAL PROGI	RAM ENHANCEMENTS			
1	Enrollment Growth	Classroom-PE	Add space for PE classroom instruction. Locate near locker room/recreation facilities			1	No existing PE classroom.	Locate near lockers/gym/playfields-playcourts.		
2	Infrastructure	Middlefield Road-Campus Entrance	Reconfigure landscape, frontage and security features at Middlefield Rd. pickup/dropoff area.			1	Redesign as main campus pickup/dropoff/ arrival area with adequate controls and supervision features.	Consider reusing or reconfiguring portion of MOT transportation yard, reusing portion of grass area next to baseball field, and redeveloping Locker Room Bidg.		
2	Infrastructure	Technology Upgrade	Run copper cabling (CatGa) to Frontitow devices in each classroom. Install Frentilleer conductor for PA system. Run network cabling behind TYN in each classroom in Bldg. 460/km. 211. Run fiber (CM4) and copper (CatGa) to Bldgs. 1000/1100.	All		2				

repared by Artik for MVV 2 of 2 MEMORANDUM



TO#	FROM#
File	Maria Madrigal/Gene Yong
COMPANY#	DATE#
Student Facilities Improvement Plan (SFIP)/	14 Aug 19
Ten-Year Master Plan Update	
Mountain View Whisman School District	
SUBJECT #	JOB NUMBER/REFERENCE NUMBER #
Interview Notes	02449
Graham Middle School	
8:00am, Tuesday, 6 Aug 19	

ATTENDEES

GRAHAM MIDDLE SCHOOL		
Graham MS	Michael Hermosillo	Principal
Graham MS	Mariko Kobata	Assistant Principal
ARTIK (A3)		
А3	Gene Yong	Senior Project Manager
A3	Maria Madrigal	Project Architect

DISCUSSION NOTES

- School needs to expand curriculum to address students who are more kinesthetic learners (i.e., learn by doing physical activities vs. sitting/listening, etc.).
 - There are students that are not on a college/professional career track (e.g., software, computer, science) that would benefit from a curriculum which teaches and provides for hands-on life skills.
- 2. SPED classrooms need to be full-sized. Half-sized classrooms are not working.
- 3. Areas of Need/Opportunity
 - a. School lacks facilities to support electives that support life skills and kinesthetic learning.
 These spaces need to be purposefully configured and furnished
 - i. Home Economics (e.g., crafts, sewing/knitting, cooking, washer/dryer, etc.)
 - ii. Industrial Arts/Workshop (e.g., wood shop, ceramics/kiln/pottery, autoshop, etc.).
 - iii. Cosmetology (e.g., self expression, stage/drama, etc.)

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b. Staff Lounge

- i. Underutilized
- ii. More varied spaces for private and down time
- iii. Improve courtyard as landscaped space for staff
- iv. Can also be space for use by service providers/counselors
 - Can work from shared spaces. On campus part-time basis. Work in other instructional and collaborative spaces (e.g., classrooms, library, admin office, etc.).

c. Mountain View Sports Pavilion

- Joint use facility shared between school and community (Note: clarify with District how future planning and design and use is coordinated between the school district and the City).
- ii. Pavilion includes a gym and locker facilities used by the school during school hours.
- iii. Locker rooms are outdated and need to be modernized.
 - Need more lockers, more single stalls for changing, non-gender specific changing rooms. Showers not needed.
- iv. Gym needs to be modernized
 - 1. Improve sound system, acoustics, air conditioning
- v. Ideal to have its own facility to control programming and use (i.e., school must end games/activities because of commitments for community use of facility).

d. Landscaping/Outdoor Spaces

- Need to connect current and future generations of kids (i.e., digital natives) back to the natural environment
- ii. Existing outdoor spaces are unshaded, lack landscaping and furnishings
- iii. Improve landscaping between buildings
- iv. Create outdoor gathering spaces which are landscaped, shaded and furnished.
- Create outdoor learning spaces/living classrooms (i.e., furnishings, shelter, utilities), particularly for science-based and environmental studies classes (e.g., tie into community garden by MUR).
- vi. Add Shade Structure and locate centrally as a gathering facility.
- Wore informal, passive, differentiated spaces that not athletically oriented (e.g., play courts, playfields, etc.).
- e. Need more large spaces to balance demand for after school programs by vendors and by school



MEMORANDUM

- 4. Other Improvements to consider
 - a. Replace existing marguis/signage at the front of the school (marguis is dated).
 - b. Flagpole seems short
 - c. Solar panels
 - d. Relocate bike cage to more suitable location
 - Existing location in the middle of the playground encourages students to ride bikes across campus, which is not allowed. Safety issue. Requires active supervision.
 - Better if located at a more accessible location which does not require crossing the interior of the campus.

	2010 SFIP Projects							
PRIOR	RITY CATEGORY PROJECT DESCRIPTIONS					CURRENT PR	IORITY/NEED	
2-School In	Enrollment Growth frastructure nal Enhancement	Type PROJECT NOTES		SITE REFERENCE	CURRENT STATUS	PRIORITY	NOTES	NOTES (STATUS)
GRAHA	AM MIDDLE SC	CHOOL				4 pt scale: 2-	High to 4-Low, NA-Not Needed	
PROJEC	TS FROM 2010 SI	FIP - NOT COMPLETED/PARTIALLY COMPLETE	D					,
1	Safety+Growth	Electrical Upgrade	Replace existing panel w/ additional breaker capacity		Not Completed			Not done. Confirm if still needed.
1	Safety+Growth	Gas Upgrade (code compliance, underground lines)	Allow for gas shutoff valve/vacuum breaker		Not Completed			Confirm if safety or regulatory issue. Otherwise, system is functioning.
1	Safety+Growth	Fencing	New perimeter chainlink fence, garden fence		Not Completed	1	Campus not secure. Create secure campus perimeter excl. parking & roads.	North side fencing not replaced. All other fencing replaced.
1	Safety+Growth	Restroom Modernization	Replace floor/wall tiles, new fixtures/lighting/cubicles.		Partial			Lighting, ADA upgrades addressed. Partitions/fixtures/wall tiles not replaced. Bldg. 12 and auditorium-new
1	Safety+Growth	Signage, Drinking Fountains			Completed	3	Need new signage/marquis	
1	Safety+Growth	Building Accessibility	Replace counters, sink cabinets, thresholds		Partial			No significant DSA deficiencies remain/were addressed with modernization. Counters not done, thresholds made compliant (min. 1 per room).
1	Safety+Growth	Separate Parking, Pickup and Bus Loading Areas	Modify car parking (Cat 3). New trash entlosure.		Not Completed	2		Backlot area only (striping). Upgrades completed w/ Phase 3 (#7- /wd), including new parking, bus pickup/dropoff, trash enclosure.
2	Infrastructure	Mechanical Upgrade (end of service life)	Replace existing mechanical (HVAC) systems for bldgs being modernized	#2, 3, 4, 5, 6, 8, 11, 15, 16	Not Completed			Controls done in 2014, but classroom units are dated. New HVAC units in Bldg. 1, 7 (Aud), 9, 13. 14 (New), 17 (MUR). Still
2	Infrastructure	Plumbing Upgrade (fixtures, eqpt., domestic lines, and of service life)	Replace existing plumbing eqpt/domestic lines for bldgs being modernized. New fixtures in Cat 1 (RR upgrade)		Not Completed			No work done. Still needed.
2	Infrastructure	Covered Walkway Repair (remove utilities, re-roof)	Replace concrete paying, repair/reroof covered walkway, underground existing roof-mounted conduits		Not Completed			Only lighting completed.
2	Infrastructure	Underground utility survey/upgrade	Survey existing underground utilities, upgrade existing utilities if needed.		Not Completed			No work done. Limited value. Consider need on case-by-case basis for specific projects.
2	Infrastructure	Existing Kitchens-Modernization	Modernize existing Kitchens & Dining Servery	#12	Partial			Still needed. Consult with district food service staff.
3	Enhancement	Alternative Energy-Soler Panels	New Solar Panel Installation		Partial			Subject to District (electrical, cost) & School (shade structure) priorities.
3	Enhancement	Shade Structures (assembly)	DSA shows project None in SHIP		Partial	1	None on campus.	Confirm with School if needed. Former Shade Structure converted to MUR/not replaced.
3	Enhancement	Energy Efficiency (mechanical, electrical, plumbing)	Upgrade Mech/Elec/Plumbing systems for energy efficiency		Partial			HVAC controls/ligting completed (2014-2017). See HVAC projects.
3	Enhancement	Existing Parking-Modify (stalls, asphalt-overlay/new)	Replace curbs, sidewalks, AC, pavers, stops, ramps, signage landscaping.		Partial	2		Backlot area only (striping). Upgrades completed w/ Phase 3 (#7- Aud), including new parking, bus pickup/dropoff, trash enclosure.
3	Enhancement	Landscape (frontage, programmatic spaces)	New hardscape/softscape at frontage, outdoor spaces (seatwalls/fencing). New garden area.		Partial	1	Improve outdoor campus spaces for student gatherings & learning	District worked with non-profit org on frontage improvements. Confirm if add'l upgrades needed.

Prepared by Artik for MVWSD 1 of 2

PROJECTS WORKSHEET Update to the 2010 Student Facilities improvement Plan Mountain View Whisman School District

		2010 SFIP	Projects					
PRIORIT	Y CATEGORY		PROJECT DESCRIPTIONS		CURRENT PRIORITY/NEED			
Identity & Excellment Growth Safety PROJECT NOTES SITE			CURRENT STATUS	PRIORITY	NOTES	NOTES (STATUS)		
GRAHAM MIDDLE SCHOOL								
OTHER PR	ROJECTS STILL N	IEEDED TO ADDRESS ANY PRIORITY AREA: 1	STUDENT SAFETY & ENROLLMENT GROWTH, 2) SCHOOL	L INFRASTR	UCTURE, 3) EC	UCATONAL	PROGRAM ENHANCEMENTS	
		Locker Room modernization	Dated, need individual changing stations, non-gender changing rooms.			2		Clarify implementation path between City and MWWSD.
		Gym modernization	Modernize gym, Add AC.			2		Clarify implementation path between City and MWWSD.
		Classroom modernization/conversion for Industrial Arts and Home Economics	Modernize classroom(s) for industrial arts/home economics			1	Lack facilities to teach home economics, woodshop, autoshop (non- professional life skills)	
2	Infrastructure	Technology Upgrade	Run copper cabling (Cat6a) to FrontRow devices in each classroom Install FrontRow conductor for PA system Reviews all conner cables with Cat6a cables	All	All Upgrade from CatSe cooper, support higher bandwidth/data rates over long IDF: Intermediate Distribution Frame		gher bandwidth/data rates over longer distances.	

Prepared by Artik for MVWSD 2 of 2



TO:#	FROM#	
File	Gene Yong	
COMPANY#	DATE#	
Student Facilities Improvement Plan (SFIP)/	28 Aug 19	
Ten-Year Master Plan Update		
Mountain View Whisman School District		
SUBJECT#	JOB NUMBER/REFERENCE NUMBER #	
Interview Notes	02449	
MVWSD Maintenance, Operations,		
Transportation (MOT)		
8:00am, Tuesday, 27 Aug 19		

ATTENDEES

MVWSD MAINTENANCE, OPERATIONS, TRANSPORTATION					
MVWSD MOT Brian Perron Director					
ARTIK (A3)					
А3	Gene Yong	Senior Project Manager			

DISCUSSION NOTES

- MOT should be consolidated into a single site. MOT needs a long-term facilities solution (e.g., location, size, configuration).
 - a. It is presently split in two sites, with offices and storage warehouses at Graham MS and transportation at Crittenden MS.
- MOT would benefit from being centrally located and easy to access, especially since MOT utilizes oversized vehicles (e.g. trucks, buses).
 - a. The corporation yard at Graham MS is accessible only through the school's rear gate at Lane Ave., a small two-lane residential street.
- The two middle school gyms (Mountain View Sports Pavilion @ Graham MS, Whisman Sports Center @ Crittenden MS) are on MVWSD land and leased to the City of Mountain View on 100-year leases.
 - The City manages each of the gyms, including funding and coordinating any repairs, maintenance or recapitalization of facilities.
 - b. Graham MS and Crittenden MS function as tenants of these facilities.
 - School-related modernization requests have to go through the City. District does not have a formal say in future renovations/modernization of either gym.

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MEMORANDUM

- 4. The District does not have a good understanding of the status of underground utility lines. It would be beneficial to undertake surveys of all underground utilities.
- 5. Sanitary Sewer Lines are a district-wide concern. MOT has been in a reactionary mode (i.e., respond to complaints), and hasn't been able to adequately identify how extensive these issues on a campus-wide basis (i.e., instead of simply at an individual bldg. site). When investigating complaints, they are finding block lines from tree roots and other concerns.
 - Monta Loma ES and Theuerkauf ES have significant plumbing/drain lines issues (e.g. frequent blockages, tree roots in pipes, etc.).
 - b. Need to survey lines at all sites (e.g., camera).
 - c. Make repairs as needed based on survey.
- Roof gutters and stormwater drain lines at buildings are a district-wide concern, especially at older campuses. Many roof gutters and related drain lines are poorly or non-functioning (i.e., reverse slope, blockages, leaking, rusted through metal, taped joints, etc.).
 - a. Consider redoing all gutters and drain lines at same time as roofing projects.
- Most significant district-wide facilities-related concerns are: roofs, HVAC systems, asphalt, play yards.
 - a. Priority 1: Asphalt, HVAC
 - b. Priority 2: Roofing, Bldg. Gutters/Drains, Underground Utility Surveys

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STUDENT FACILITIES IMPROVEMENT PLAN UPDATE MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

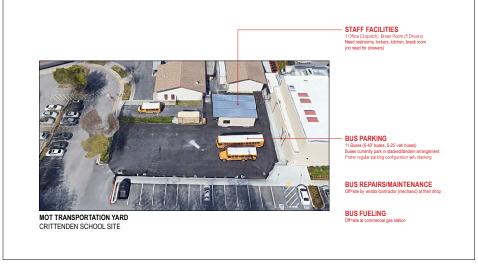
EXISTING FACILITIES & OPERATIONS

October 18, 2019









STUDENT FACILITIES IMPROVEMENT PLAN UPDATE MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

EXISTING FACILITIES & OPERATIONS

October 18, 2019







FROM#	
Gene Yong	
DATE#	
12 Aug 19	
JOB NUMBER/REFERENCE NUMBER #	
02449	
	Gene Yong DATE# 12 Aug 19 JOB NUMBER/REFERENCE NUMBER#

ATTENDEES

MVWSD PRESCHOOLS		
MVWSD Preschool Programs	Terri Kemper	Director
ARTIK (A3)		
A3	Gene Yong	Senior Project Manager
A3	Maria Madrigal	Project Architect

DISCUSSION NOTES

- 1. MVWSD Preschool Programs funded primarily by the State (California)
 - a. Program to provide early education/pre-elementary school programs for at-risk/low income/disadvantaged families/students across the entire District
 - i. State covers cost of preschool programs/free to families that qualify.
 - ii. Students/families must meet specific income-based eligibility requirements.
 - iii. Selective entry based on criteria set by the State's grant program.
 - iv. District has been able to meet the need for preschool programs based on the number of eligible students.
 - v. Majority of students/families who qualify come from the areas around Mistral/Castro and Theuerkauf.

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MEMORANDUM

- 2. Additional funding is provided by the District.
 - District prioritized expanding early education opportunities to the community, including those that don't qualify under the State's grant program.
 - b. Additional funding also from grants and fees.
- 3. District funding created capacity for preschools to accept other students.
 - a. Based on available spaces.
 - b. No pregualification necessary to meet State criteria.
 - c. Fees charged to augment district and grant funding of additional spaces.
- 4. Increasing demand for full-day programs
 - a. District's preschool programs have been oriented to half-day programs.
 - b. Full-day programs require larger spaces than half day programs.
 - i. More space needed.
 - Minimum regulatory space requirements for naps (e.g., size of mats, distance between mats, etc.).
 - 2. Dining/snacks.
 - 3. Variety of play spaces (indoors, outdoors).
 - ii. Existing preschool facilities constrained by:
 - Undersized classrooms (i.e., reuse of standard 960 sf classroom modules OK for half-day, too small for full-day).
 - 2. Inadequate playgrounds.
 - 3. Location and lack of security.
- 5. Facility shortcomings
 - a. Whereas Latham's preschool classroom are all general ed, only one classroom at Graham is general ed. Graham's general ed preschool is isolated/siloed. Better to consolidate and collocate.
 - b. No dedicated preschool play area at Theuerkauf. Share use of K-classroom play structures.
 - c. Restroom fixtures are for older children, including WCs and sinks (i.e., too large, too high).
 - d. Lack of half-height doors to enable easy control and supervision of adjoining spaces.

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- e. Separate areas for eating/drinking. Ideal not to comingle in instructional/learning spaces.
- f. Lack of storage for outdoor play equipment. Presently stored outdoors (i.e., theft, exposure, weathering) or in classrooms (i.e., cleanliness, logistics).
- 6. Preschool facilities are informed by ECERS (Early Childhood Environment Rating Scale) facility standards/criteria. Facilities are assessed and given a "Site Rating", which is important for grants.
 - a. District preschools typically fall short on its playgrounds
 - i. ECERS identifies the need to support student development in 7 different gross motor activities goal:
 - ii. During regulatory inspections, District preschools typical create workarounds to address the ECERS criteria.
- 7. District goal is to have a program for 225 students. Staffing is currently based on the following:
 - a. Required staff/student ratio is 1:8
 - b. Classroom 1: 15 students with 1 teacher and 1 aide.
 - c. Classroom 2: 24 students with 1 teacher and 2 aides.
- 8. The District preschool program would ideally be situated at a single, centrally-located and purposefully configured preschool facility.
 - a. Collocate general and SPED preschool students
 - b. Consolidates teachers, support and administrative staff at single site.
 - c. Classroom spaces which flow into adjoining outdoor spaces.
 - d. Create varied outdoor play environments that enables children to connect to the natural environment. Many students come from backgrounds where access to outdoor natural and play settings is limited.
 - e. Create shared spaces where school can gather (e.g., MUR, outdoor gathering spaces) and where the preschool can hold workshops and training sessions with parents.
 - f. Place for art and play-based/project-based activities.
 - g. Secure
 - h. Age-appropriate/child-centered spaces, furnishings and equipment.
 - i. Preschools are currently using spaces and furnishings designed for older students.

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PROJECTS WORKSHEET Update to the 2010 Student Facilities Improvement Plan

		2010 SFIP Proje	ects					
PRIOF	RITY CATEGORY	GORY PROJECT DESCRIPTIONS			CURRENT PRIORITY/NEED			
2-Safery & treatment Growth 2-		PROJECT NOTES	SITE REFERENCE	PROJECT STATUS	PRIORITY	NOTES		
PRESC	HOOL @ LATH	AM STREET		DTA Maps (2017)		4 pt scale: :	1-High to 4-Low, NA-Not Needed	
1	Safety+Growth	Site Accessibility Upgrade (Ramps)	Create separate paths from Latham Ave. to preschool and Mistral			1	Mistral pedestrian traffic travels across preschool paths.	
1	Safety+Growth	Play Cluster-Preschool	Provide holistic play environment for preschool			1	Minimal play environment. Provide natural/landscaped play features	
1	Safety+Growth	Technology (communications, data, phone)	Replace ethernet cable with <u>OM4</u> fiber cables to connect to MDF Replace all copper cables with <u>Cat6a</u> cables			2	Assume MDF is at Mistral or Castro.	
1	Safety+Growth	Fencing	Fencing to create a secure perimeter during and after school hours			1	No perimeter fence around preschool campus.	
2	Infrastructure	Existing Classrooms-Modernization	Modernization ongoing-Summer 2019	P1-P5	Ongoing		Classroom/restroom furnishings not age- appropriate to preschool children.	
2	Infrastructure	Security System Upgrade	Establish perimeter controls for preschool campus			1	No perimeter around preschool campus.	
3	Enhancement	Shade Structures (assembly)	Shade outdoor play and learning areas (landscape, structure)			1	Can be landscaped or structure.	
3	Enhancement	Landscape (frontage, programmatic spaces)	Fencing to establish perimeter along park edge. Landscape improvements in play areas.			1		





FROM⊯
Gene Yong
DATE#
9 Aug 19
JOB NUMBER/REFERENCE NUMBER #
02449

ATTENDEES

MVWSD SPECIAL EDUCATION					
MVWSD SPED	Arianna Mayes	Director			
ARTIK (A3)					
A3	Gene Yong	Senior Project Manager			
A3	Maria Madrigal	Project Architect			

DISCUSSION NOTES

- 1. Increasing demand for SPED services throughout the District.
- 2. MVWSD's Special Education (SPED) program has several major components:
 - a. General SPED services for SPED students with less significant disabilities.
 - i. Services located on all elementary and middle school campuses.
 - ii. Within the next 5 years, goal is to "push-in"¹ high functioning SPED students who are able to be integrated with the general student population with limited support in specific areas of need.
 - iii. District services in schools includes:
 - 1. Psychologist (asessments)
 - 2. Speech Therapist
 - 3. Vision Specialist
 - 4. Physical Therapist (PT)

Artik Art & Architecture | 394-A Umbarger Road | San Jose, CA 95111 USA Tel: 408.224.9890 | www.ArtikA3.com | info@artika3.com



MEMORANDUM

- 5. Occupational Therapist (OT)
- 6. Education/Resource Specialist.
- iv. Typical classroom settings involve 20-25 students and 4 teachers/specialist/support staff at any given time.
- b. Three Special Day Class programs for SPED students with more significant disabilities.
 - i. Individual sites for three district-wide "pull-out" SPED services include:
 - Autism @ Monta Loma Elementary School (ES) and Crittenden Middle School (MS)
 - Program being relocated from Huff ES because Huff ES needs space for enrollment growth. Monta Loma ES space needs to be upgraded (e.g., install barriers at rear door to classrooms)
 - 2. Medically-Fragile³ @ Landels ES.
 - Need to provide facilities to support Medically Fragile students in middle school. MS students currently based in Landels or HS.
 - Functional Life Skills⁴ @ Bubb ES and Graham MS
 - ii. Need purposefully configured and equipped spaces.
- c. SPED Preschools
 - i. Based at Graham Middle School.
 - 1. Three SPED classrooms
 - a. 2 classrooms are for SPED students with IEPs⁵.
 - 1 classroom is co-taught with a general ed teacher and SPED teacher⁶

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With this approach, the general education teacher and the special education teacher work together in close collaboration. The focus is to ensure students are receiving full access to the general education curriculum while limiting any disruption to their daily schedule (such as pulling students out of a classroom)

² Depending on the student's education needs, he or she may require to also receive small group or individual instruction with the special education teacher in another setting outside of the general education classroom.

Medically fragile refers to a student receiving special education and related services who has a serious, ongoing illness or a chronic condition that that requires daily, ongoing medical treatments and monitoring by appropriately trained personnel, and requires the routine use of medical device or of assistive technology to compensate for the loss of usefulness of a body function needed to participate in activities of daily living, and lives with ongoing threat to his or her continued well-being. Students with medically fragile disabilities require an intensive individual education program of special education services that includes specially designed instruction, related services, assistive technology, school health services, and/or other services required for the provision of a free appropriate public education. Services are frequently provided in a self-contained instruction at the services are frequently provided in a self-contained instruction.

⁴ Functional skills are those skills a student needs to live independently. An important goal of special education is for our students to gain as much independence and autonomy as possible, whether their disability is emotional, intellectual, physical, or a combination of two or more (multiple) disabilities.

Sasumed to include SPED preschool students requiring "pull-out" support. Individual Education Plans (IEP) defines the individualized objectives of a child who has been determined to have a disability or requires specialized accommodation, as defined by federal regulations. The IEP is intended to help children reach educational goals more easily than they otherwise would, four component goals are: conditions, learner, behavior, and criteria. In all cases the IEP must be tailored to the individual student's needs as identified by the IEP evaluation process, and must especially help teachers and related service providers understand the student's disability and how the disability affects the learning process.

⁶ Assumed to include SPED preschool students who are "pushed-in" with general preschool students.



- ii. Medically fragile SPED preschool being relocated from Slater to Graham.
- iii. AM would prefer to combine the two preschools (Latham, Graham) into a single site.
 - 1. Montecito site would be ideal because of its central location.
 - 2. Integrate SPED students with general preschool students.
 - 3. Shared support among teachers and staff if located at a single site.
- d. Specialist SPED programs/outsourced to higher-level non-district SPED programs.
 - i. For students with disabilities beyond the capabilities of Districts programs.
 - ii. Too few students in the District to dedicate staff and space for specialized programs. 6 students including one in 3rd grade and five in 7th and 8th grade.
- e. Extended School Year (ESY) Summer Program
 - District is required to provide 19 days of Summer School for SPED students. Currently held at Stevenson ES.

3. SPED Facilities

- a. SPED facilities have moved to different school sites depending on availability of space and as enrollment fluctuates.
- b. SPED spaces are adapted from existing classroom spaces and are not purposefully-built. Some spaces are poorly configured for SPED (e.g., Bubb ES, Landels ES). SPED staff often not involved in design of its spaces.
 - i. Triangular spaces
 - ii. Furnishings and fixtures not ideally selected/configured (e.g., TV screens in instructional spaces, fixed wall storage systems, etc.).
 - iii. Located at the outer edges of a school campus behind gates/fences. Feeling of isolation and being marginalized.
 - Lack of break out space attached to classrooms for individual/small group instruction.
 - v. Lack of separate space attached to classrooms for staff.
 - vi. Lack of showers
 - vii. Lack of kitchens and washer/dryer for functional life skills program.
- c. SPED requires specialized spaces which need to be purposefully design, configured and equipped) for SPED functions, especially spaces for more specialized services (e.g., autism, medically fragile, functional life skills, etc.).



MEMORANDUM

- d. SPED Special Day Program Facilities
 - i. Locate centrally
 - ii. Locate near SPED program director (i.e., director's proximity near ESY program at Stevenson was very beneficial).
 - iii. Equip/furnish facilities to support programs
 - 1. Showers in classrooms
 - 2. Kitchen and washer/dryer in Functional Life Skills classrooms/labs.
- e. SPED instructional spaces
 - i. 10-15 adults may be working with 20+/- SPED students at any given time.
 - ii. Need to have space for staff to work from.
 - iii. Need to have space to break into small groups (4).
 - iv. Consider very large classroom with operable partitions (e.g., 1500+/- sf) or regular sized classrooms with attached break out rooms.
- f. Ideal for Program Director to be located with, or near SPED Special Day Programs
 - When ESY was at Stevenson ES over summer, program director could visit program/be more accessible to the students/families.
- g. Sensory Space (aka Multi-Sensory Environments).
 - i. Safe, calm space
 - Ideal to have at least one indoor and outdoor space for SPED students on each campus.
 - 1. Indoor space requires supervision.
 - 2. Stevenson ES has an outdoor sensory space.
 - iii. Sensory space at EBC Palo Alto campus is a good example (see photo).



Sensory Space at EBC Palo Alto Campus



h. SPED Program Support Staff/Specialists.

- i. Psychologist
 - 1. Supports both general ed and SPED students.
 - 2. Locate near front of school (e.g., Admin Bldg.).
 - Frequent interaction between psychologist, student, parents, and principal.
 - 3. Need private office and a small meeting room for 4-5 pns.
 - a. Privacy is requirement.
 - b. Space to conduct assessments
- ii. Speech Therapist
 - 1. Locate centrally near students
 - 2. Need office and small group space for 4-5 pns.
- iii. Education/Resource Specialist
 - 1. All schools have a full-time education/resource specialist.
 - Goal is to have two at each school site, one to support general ed and one to support SPED.
 - 3. Education Specialist sometimes co-teach other general ed classes (e.g., english/math @ Graham MS, science/social studies @ Graham MS).
 - 4. Need office.
- iv. Vision Specialist/PT/OT
 - 1. Locate centrally near students
 - 2. Each spend 2-3 days on any one campus in a week.
 - 3. One office can be shared.
 - 4. Need meeting room for 10-15 pns.

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Gene Yong

From: Jon Aker <jaker@mvwsd.org>
Sent: Thursday, July 25, 2019 12:57 PM

To: Gene Yong

Subject: Re: MVWSD Interviews for SFIP Update (TECHNOLOGY)

Sure. See responses below.

Also, overall I don't like the projector setup we have at the elementary MURs. I would prefer a projector mounted at the back of the stage and projects on to the screen from behind. When they built them they designed a projector on a cart setup. Some cabling would need to be run in order to make this change.

We support MOT with the EMS systems. A single EMS system that is used for all sites. From what I understand, the middle schools have an older system from another vendor and the elementary sites have various versions of the same vendor but they can't manage them from what system. It seems like it was only half done.

On Thu, Jul 25, 2019 at 9:04 AM Gene Yong <gyong@artika3.com> wrote:

Jon,

Can you quickly list what you think would be the top 2-3 technology-related priorities for the following campuses (can be simple one sentence scoping type descriptions for now). If specific to a building, please reference the building references in the attached set of maps (e.g., #B, #200, etc.).

BUBB ES

- 1. Replace all fiber with OM4 fiber
- 2. Replace all cat5e copper with Cat6a
- 3. Repair network cabling that hasn't worked since it was installed in 2018

MISTRAL ES

- 1. Replace all fiber with OM4 fiber
- 2. Create an adequately sized MDF for the campus
- 3. Replace all cat5e copper with Cat6a

CASTRO ES (NEW)

- 1. Can't think of anything. Some of the issues at that campus are in the Mistral buildings.
- 2.

CRITTENDEN MS

- 1. Run copper cabling to FrontRow devices in each classroom and install FrontRow conductor for the PA
- 2. Run network cabling behind the TV in each classroom in building 400 and room 213
- 3. Run fiber and copper to building 1100 and 1000

GRAHAM MS

- 1. Run copper cabling to FrontRow devices in each classroom and install FrontRow conductor for the PA
- 2. Replace old cat5e copper with cat6a
- 3. Eliminate redundant IDF in building 11

1

HUFF ES

- 1. Replace all fiber with OM4 fiber
- 2. Replace old cat5e copper with cat6a
- 3. Repair network cabling that hasn't worked since it was installed in 2018

LANDELS ES

- 1. Replace all fiber with OM4 fiber
- 2. Replace old cat5e copper with cat6a
- 3. Repair network cabling that hasn't worked since it was installed in 2018

MONTA LOMA ES

- 1. Run network cabling behind the TV in each classroom
- 2. Run network cabling to mount the APs in the center of each classroom
- 3. Replace old cat5e copper with cat6a

STEVENSON ES (NEW)

- 1. Replace IDF cabinet in library with one deep enough for the equipment
- 2. Run copper cabling to FrontRow devices in each classroom and install FrontRow conductor for the PA

THEUERKAUF

- 1. Replace all fiber with OM4 fiber
- 2. Replace IDF for building E with one that can accommodate our network equipment
- 3. Replace old cat5e copper with cat6a

VARGAS ES (NEW)

- 1. Don't know what the issues might be yet.
- 2.

PRESCHOOL AT LATHAM ST.

- 1. Replace ethernet cable that is connecting preschool to the MDF with OM4 fiber
- 2. Replace old cat5e copper with cat6a

PRESCHOOL AT GRAHAM MS

- 1. Run new OM4 fiber from IDF to MDF
- 2. Replace old cat5e copper with cat6a

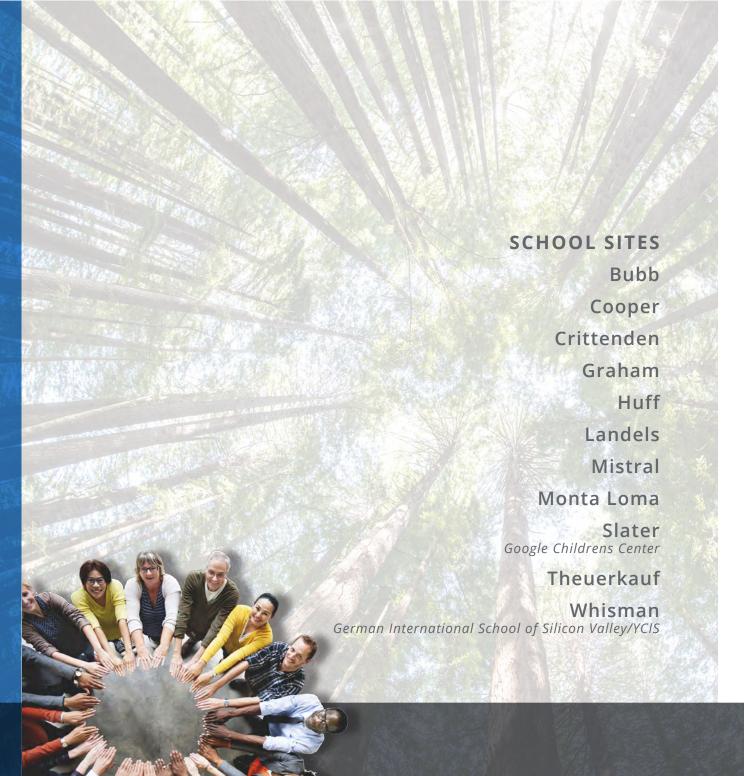
Gene

From: Jon Aker <<u>jaker@mvwsd.org</u>>
Sent: Thursday, July 25, 2019 8:24 AM
To: Gene Yong <<u>gyong@artika3.com</u>>

 $\label{lem:cc:} \textbf{Cc:} Rebecca \ Westover < \underline{rwestover@mvwsd.org}>; \ Ron \ Wheelehan < \underline{rwheelehan@mvwsd.org}>; \ Maria \ Madrigal < \underline{mmadrigal@artika3.com}>; \ Pauline \ Torrez < \underline{rtorrez@artika3.com}>; \ Bill \ Gould < \underline{bgould@artika3.com}>; \ Maria \ Madrigal < \underline{mtheelehan@mvwsd.org}>; \ Maria$

Subject: Re: MVWSD Interviews for SFIP Update (TECHNOLOGY)

We have lots of physical plant upgrades needed at the sites. Most of the sites they just added additional network cabling during the modernization and didn't address any of the deficiencies with the existing cabling. At some sites we've had to reduce the speed of the network or use older equipment due to the old physical plant.





ROOF ASSESSMENTS
Western Roofing Service

APPENDIX D

MVWSD MASTER FACILITIES PLAN

November 2019

Mountain View Whisman School District Roof Assessment



Benjamin Bubb ES

525 Hans Ave. Mountain View, CA 94040

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age is unknown.



Roof Overview - Building 1



Roof Overview - Building 1



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 2



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Through roof penetrations do not appear to have proper low slope roof jack. Recommend installing proper roof jack and storm collar.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, sealant, and install storm collar.



Typical Deficiency - BUR at gravel stop edge metal has split at joints. Recommend removing loose material to expose adequate tie-in of existing striping plies, prime and reflash per industry standards.



Roof Overview - Building 3 (Building 4&5 Similar)



Roof Overview - Building 3 (Building 4&5 Similar)



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant and or flexible self- adhered flashing tape. Recommend sealing, and install storm collars



Typical Deficiency - Pipe jacks are damaged. Recommend installing new GSM roof jack and storm collar.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Shingles are missing. Recommend replacing as needed.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.



Typical Deficiency - Pipe jack is in need of replacement. Recommend installing new roof jack and storm collar. Recommend LB to be removed if abandoned.



Roof Overview - Building 6



Typical Deficiency - Conduit penetrations do not appear to have proper roof jack.

Recommend installing proper roof jack and storm collar.



Typical Deficiency - Hip and ridge shingles are missing. Recommend replacing as needed.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Several through roof pipe penetrations have been improperly flashed. Missing hip, ridge, and field shingles throughout. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Install new pipe flashings with storm collars as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Improperly flashed through roof pipe penetrations. Cracking and delamination of mineral surfaced cap sheet at gravel stop joints. Cracking and delamination of mastics at base flashing curb penetrations, and through roof pipe penetrations.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Install new pipe flashings with storm collars as needed.

Repair splits in mineral surfaced cap sheet at gravel stop.

Touch up of mastic at penetrations and apply acrylic or silicone coating to preserve repair.

Long Term Recommendations

None at this time.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$13,500 - \$14,850
Deficiency Renairs	\$13 500 - \$14 850

Mountain View Whisman School District Roof Assessment



Cooper School

33 Eunice Ave. Mountain View, CA 94040

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Building 1 - Poly Urethane Foam Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Poly Urethane Foam Roofing
Base Flashing Assembly	Poly Urethane Foam Roofing
Surfacing	Coating
Condition	Poor
Approximate Age	15 - 20yrs.
Estimated Useable Life	0 - 5yrs. +/- (With Annual Maintenance) **Projections are based on
Remaining	industry standard lifespan of 15 - 20 years.

Roof Area: Buildings 2, 3 - Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Gravel
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building 1



Roof Overview - Building 1



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jack at through roof penetration is damaged. Recommend repairing as needed.



Typical Deficiency - Coating has begun to delaminate from perimeter coping cap.
Recommend touch up as needed.



Typical Deficiency - Coating has begun to delaminate from foam roofing. Recommend touch up as needed.



Roof Overview - Building 2 (Building 3 Similar)



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Sealant at coping seams has begun to fail. Recommend removal and replacement of sealant as needed.

Condition Overview Roof Area: Building 1 - Poly Urethane Foam Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Open pipe penetration. Blistered coating at coping and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Repair pipe penetration.

Repair damaged coating.

Long Term Recommendations

Tear off foam roofing to wood substrate and install new BUR roof system.

Condition Overview Roof Area: Buildings 2, 3 - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Open seams at coping metal.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Seal open coping seams.

Long Term Recommendations

None at this time.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$9,500 - \$10,450
Deficiency Repairs	\$12,000 - \$13,200
BUR Re-roof	\$288,000 - \$316,800



Crittenden MS

1701 Rock Street Mountain View, CA 94043

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Building 100, 200, 300, 500, 700, 800, 900, 1000 - Dimensional Asphalt Shingles

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Building Canopies 300, 500, 700, 800, 900, 1000 - Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Poor
Approximate Age	15 - 20yrs.
Estimated Useable Life	0 - 5yrs. +/- (With Annual Maintenance) **Projections are based on
Remaining	industry standard lifespan of 15 - 20 years.

Roof Area: Building 100, 800, 900 - Built-up Roofing

Roof System Overview

neor oystem overview	
Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 400, 600 - Single-ply Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Single-Ply Roofing
Base Flashing Assembly	Single-Ply Roofing
Surfacing	N/A
Condition	Good
Approximate Age	0 - 5yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 1100 - Built-up Roofing

Roof System Overview

Substrate	Wood
Substrate	wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Gravel
Condition	Poor
Approximate Age	15 - 20yrs.
Estimated Useable Life	0 - 5yrs. +/- (With Annual Maintenance) **Projections are based on
Remaining	industry standard lifespan of 15 - 20 years.

Roof Area: Building 1100 - Concrete S Tile

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Concrete S Tile
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Fair - Good
Approximate Age	15 - 20yrs.
Estimated Useable Life	10 - 15yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building 100



Roof Overview - Building 100



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed.



Typical Deficiency - Hip and ridge shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Sealant at coping seams has begun to fail. Recommend removal and replacement of sealant as needed.



Typical Deficiency - Observed fastener penetrating through finished built-up roofing. Recommend removal and patch.



Typical Deficiency - Base flashing at mechanical curb has not been properly skirt flashed. Recommend installation of GSM skirt flashing.



Typical Deficiency - Sealant at lead pipe jacks has begun to pull away from through roof penetration. Recommend replacing sealant as needed, installing stainless steel band clamps, and storm collar.



Typical Deficiency - Observed exposed lath and underlayment at roof to wall transition. Recommend stucco patch and as needed sealing to protect underlayment and minimize water intrusion behind stucco.



Typical Deficiency - Through wall scuppers should have debris screens. Recommend installation of gutter screens to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Through roof penetration does not appear to have proper roof jack. Recommend installing proper roof jack and storm collar.



Typical Deficiency - Hip and ridge shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed.



Typical Deficiency - Missing leader pipe. Recommend installation of leader pipe to divert water to lower roof.



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutter straps need to be re-fastened.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Roof Overview - Building 600



Roof Overview - Building 600



Roof Overview - Building 700



Roof Overview - Building 700



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed. Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jack sealant has begun to pull away from through roof pipe penetration. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Roof Overview - Building 800



Roof Overview - Building 800



Roof Overview - Building 800



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed.



Typical Deficiency - Pipe jack is open. Recommend removal and replacement and installation of storm collar.



Typical Deficiency - Hip and ridge shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Missing leader pipe. Recommend installation of leader pipe to divert water to lower roof.



Typical Deficiency - Roof to wall counter flashing is open. Recommend removal and replacement as necessary to achieve water tight application.



Typical Deficiency - Observed fastener penetrating through finished asphalt shingle roofing. Recommend removal and repair as needed.



Typical Deficiency - Mechanical duct work seams damaged and deteriorated.

Recommend replacement of damaged duct by licensed mechanical contractor and coating with acceptable silicone or acrylic coating.



Typical Deficiency - Through wall scuppers should have debris screens. Recommend installation of gutter screens to promote positive drainage.



Typical Deficiency - Sealant at low slope roof jack needs to be replaced. Recommend reseal and install storm collar.



Typical Deficiency - Sealant at coping seams has begun to fail. Recommend removal and replacement of sealant as needed.



Typical Deficiency - Observed accumulation of debris at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 900



Typical Deficiency - Gutter brackets have been face fastened through asphalt shingle. Recommend removal and repositioning bracket. Repair asphalt shingles as needed.



Typical Deficiency - Sealant at steep slope roof jack needs to be replaced. Recommend re-seal and install storm collar.



Roof Overview - Building 1000



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Hip and ridge shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Damaged gutter seam. Recommend repair as needed.



Typical Deficiency - Missing leader pipe. Recommend installation of leader pipe to divert water to lower roof.



Roof Overview - Building 1100



Roof Overview - Building 1100



Roof Overview - Building 1100



Typical Deficiency - Missing concrete S tile. Recommend replacement of all missing and or damaged tiles.



Typical Deficiency - Base flashings show signs of deterioration and cracking. Recommend application of silicone or acrylic coating to maximize usable life of existing built-up roof system.



Typical Deficiency - Mechanical duct work damaged and deteriorated. Recommend replacement of damaged duct by licensed mechanical contractor and coating with acceptable silicone or acrylic coating.

Condition Overview Roof Area: Building 100, 200, 300, 500, 700, 800, 900, 1000 - Dimensional Asphalt Shingles

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Several through roof pipe penetrations have been improperly flashed. Missing hip, ridge, and field shingles throughout. Missing pipe clamps and storm collars. Improperly fastened gutter straps through existing roofing. Incomplete stucco wall finishes.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Repair improperly fastened gutter straps.

Complete roof to wall stucco work.

Install new pipe flashings with storm collars as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building Canopies 300, 500, 700, 800, 900, 1000 - Built-up Roofing

Existing roof system is performing as designed, but nearing end of usable life. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

Recommend tear off of existing roofing and installation of new BUR roof system.

Condition Overview Roof Area: Building 100, 800, 900 - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Sealant at coping seams has begun to fail. Observed fasteners penetrating through finished roof system. Missing skirt flashings around mechanical unit penetrations. Missing scupper screens. delamination of sealants around through roof penetrations.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace sealants at pipe flashings and install storm collars as needed.

Replace sealants at coping cap seams.

Install missing skirt flashings.

Install scupper screens.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 200, 600 - Single Ply Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 1100 - Built-up Roofing

Existing roof system is performing as designed, but nearing end of usable life. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Delamination of sealants around through roof penetrations. Mechanical duct needs to be repaired and or replaced by licensed contractor.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

Recommend tear off of existing roofing and installation of new BUR roof system. Recommend additional evaluation of mechanical duct for repair and or replacement.

Condition Overview Roof Area: Building 1100 - Concrete S Tile

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing tiles.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing tiles as needed.

Long Term Recommendations

None at this time.

Budget Estimates:

Annual Roof/Gutter Cleaning and Inspection	\$23,000 - \$25,300
Deficiency Repairs	\$75,000 - \$82,500
Re-Roof	\$437,000 - \$480,700



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Roof Area: Building 2, 3, 4, 5, 6, 8, 11 - Dimensional Asphalt Shingles

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Building 12, 13 - 3 Tab Asphalt Shingles

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	3 Tab Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Poor - Fair
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 1, 2, 3, 4, 5, 6, 7A, 8, 9 - Built-up Roofing

Roof System Overview

neor oystem overview	
Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 12 - Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Gravel
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 7B, 14, 17 - Standing Seam Metal Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Standing Seam Metal Roofing
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	0 - 5yrs.
Estimated Useable Life	25 - 30yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Building 7B, 14 - Single-ply Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Single-Ply Roofing
Base Flashing Assembly	Single-Ply Roofing
Surfacing	N/A
Condition	Good
Approximate Age	0 - 5yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 13 - Single-ply Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Single-Ply Roofing
Base Flashing Assembly	Single-Ply Roofing
Surfacing	N/A
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building 1, 9 - Clay S Tile

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Clay S Tile
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Building 10 - Clay Barrel Tile

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Clay Barrel Tile
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building 1



Roof Overview - Building 1



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 2 (Buildings 3, 4, and 8 Similar)



Roof Overview - Building 2 (Buildings 3, 4, and 8 Similar)



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Roof Overview - Building 5 (Buildings 6 Similar)



Roof Overview - Building 5 (Buildings 6 Similar)



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 7A



Roof Overview - Building 7A



Typical Deficiency - Observed accumulation of debris at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 7B



Roof Overview - Building 7B



Roof Overview - Building 9



Typical Deficiency - Roof to wall transition has been improperly detailed. Recommend removing shingles and installing proper counterflashing assembly, roofing and wall finishes by others.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 10



Roof Overview - Building 11



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



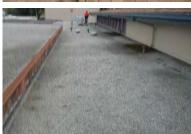
Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Missing drop outlet and leader pipe. Recommend installation of drop outlet and leader pipe for drainage.



Roof Overview - Building 12



Roof Overview - Building 12



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Edge metal has been fastened directly through existing shingle roofing. Recommend metal removal, replacement, and roof repairs as needed.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Roof Overview - Building 13



Roof Overview - Building 13



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing as needed.



Typical Deficiency - Observed accumulation of debris at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Observed fastener penetrating through finished asphalt shingle roofing. Recommend removal and repair as needed.



Typical Deficiency - Observed fastener penetrating through finished asphalt shingle roofing. Recommend removal and repair as needed.



Roof Overview - Building 14



Roof Overview - Building 17

Condition Overview Roof Area: Building 2, 3, 4, 5, 6, 8, 11 - Dimensional Asphalt Shingles

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing hip, ridge, and field shingles throughout. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 12, 13 - 3 Tab Asphalt Shingles

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing hip, ridge, and field shingles throughout. Missing pipe clamps and storm collars. Fasteners backing out, through finished roof system.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Install stainless steel band clamps and storm collars as needed.

Repair and patch shingles at exposed fasteners.

Long Term Recommendations

Remove existing 3 tab shingles and re-roof with standard asphalt dimensional shingle.

Condition Overview Roof Area: Building 1, 2, 3, 4, 5, 6, 7A, 8, 9 - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 12 - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 7B, 14, 17 - Standing Seam Metal Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 7B, 14 - Single-Ply Roofing

Existing roof system is performing as designed, but nearing end of usable life. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 13 - Single-Ply Roofing

Existing roof system is performing as designed, but nearing end of usable life. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 1, 9 - Clay S Tile

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building 10 - Clay Barrel Tile

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Budget Estimates:

Annual Roof/Gutter Cleaning and Inspection	\$23,000 - \$25,300
Deficiency Repairs	\$15,500 - \$17,050
Re-Roof	\$203,000 - \$223,300



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Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age is unknown.



Roof Overview - Building 2 (Building 1, 3, 4, 5, 6 Similar)



Roof Overview - Building 2 (Building 1, 3, 4, 5, 6 Similar)



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Observed accumulation of debris at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Shingles are missing. Recommend replacing as needed.



Typical Deficiency - Shingles are missing. Recommend replacing as needed.



Typical Deficiency - Sealants at pipe jacks have dried up and pulled away. Recommend removal/ replacement of sealant, and install storm collar.



Typical Deficiency - Pitch pockets have dried up and sealant has pulled away from galvanized sheet metal flashing. Recommend removal and replacement of sealants.



Typical Deficiency - Pitch pockets have dried up and sealant has pulled away from galvanized sheet metal flashing. Recommend removal and replacement of sealants.



Typical Deficiency - Vent pipe is missing diffuser/ rain cap. Recommend installing rain cap and or replacement of vent.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.



Typical Deficiency - Shingles are damaged. Recommend replacing as needed.



Typical Deficiency - Mechanical curbs have been improperly flashed. Recommend removal of shingles, install new sheet metal flashings properly tied into existing steep slope asphalt shingles.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing hip, ridge, and field shingles throughout. Improperly flashed mechanical curbs.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Re-work improperly flashed mechanical curbs.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Sealants at pipe jacks have dried up and pulled away conduit/ pipe. Pitch pockets have dried up and sealant has pulled away from galvanized sheet metal flashing. Vent pipe is missing diffuser/ rain cap. Pipe jacks are missing band clamps and sealant.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Removal/ replacement of sealant, and install storm collar as needed.

Top off pitch pockets with modified mastic or compatible sealants as needed, coat with acrylic or silicone coating to preserve repair.

Installing missing rain cap at vent pipes as needed.

Long Term Recommendations

None at this time.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$13,500 - \$14,850
Deficiency Repairs	\$6,500 - \$7,150



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Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age is unknown.



Roof Overview - Building 1&2



Roof Overview - Building 1&2



Typical Deficiency - Through roof penetrations do not appear to have proper roof jack. Recommend installing proper roof jack and storm collar.



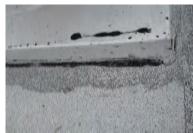
Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Condenser line sets and electrical have not been flashed properly. Recommend installing galvanized pitch pocket with cover.



Typical Deficiency - Debris have accumulated on roofs. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Corner detailing at mechanical curb penetrations show signs of cracking and delamination. Recommend touch up of mastic and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - LB electrical penetrations have not been flashed properly. Recommend installing galvanized pitch pocket with cover.



Roof Overview - Building 3



Roof Overview - Building 3



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Through roof penetrations do not appear to have proper roof jack. Recommend installing proper roof jack and storm collar.



Typical Deficiency - Mineral surfaced cap sheet has blistered. Recommend relief cutting blister, imbed in layer of modified mastic, and apply target sheet of mineral surfaced cap sheet in cold applied adhesive.



Typical Deficiency - Pitch pocket sealants have dried out and pulled away from flashing. Recommend topping off pitch pocket with compatible sealer or modified mastic and application of acrylic or silicone coating to preserve and maintain repair.



Roof Overview - Building 4



Roof Overview - Building 4



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Through roof penetrations do not appear to have proper roof jack. Recommend installing proper roof jack and storm collar.



Roof Overview - Building 5



Roof Overview - Building 5



Roof Overview - Building 5



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 6



Typical Deficiency - Hip and ridge shingles are missing. Recommend replacing as needed.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Debris have accumulated on roofs. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Several through roof pipe penetrations have been improperly flashed. Missing hip and ridge shingles throughout. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Install new pipe flashings with storm collars as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Built-up Roofing

Existing roof system is performing as designed. Observed improperly flashed roof penetrations. Blistering of mineral surfaced cap sheet. Cracking and delamination of mastics at base flashing curb penetrations. Cracking and shrinking of pitch pocket sealants at roof penetrations.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Install new flashings and roof safes at improperly flashed pipe penetrations.

Repair blisters at mineral surfaced cap sheet as needed.

Top off pitch pockets with modified mastic or compatible sealants as needed, coat with acrylic or silicone coating to preserve repair.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$13,500 - \$14,850
Deficiency Repairs	\$12,000 - \$13,200



Gabriela Mistral ES

505 Escuela Ave. Mountain View, CA 94040

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Building H, J, K, L - Dimensional Asphalt Shingles

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	15 - 20yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Building H, J, K, L, M, N, P - Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Roof Area: Building N, P - Clay S Tile

Roof System Overview

Nooi System Overview		
Wood		
N/A		
N/A		
Clay S Tile		
N/A		
N/A		
Good		
10 - 15yrs.		
15 - 20yrs. +/- (With Annual Maintenance) **Projections are based		
on industry standard lifespan of 25 - 30 years.		

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building H



Roof Overview - Building H



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building J



Roof Overview - Building J



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building K



Roof Overview - Building K



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Observed debris at field of roofing. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building L



Roof Overview - Building L



Typical Deficiency - Through roof penetrations has not been properly flashed. Recommend installing new roof jack and storm collar.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building M



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Observed debris at field of roofing. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building N



Roof Overview - Building N



Typical Deficiency - Mineral surfaced cap sheet is damaged from previous sleeper block that has been removed. Recommend repairing as needed.



Typical Deficiency - Through roof penetrations has not been properly flashed. Recommend installing new roof jack and storm collar.



Typical Deficiency - Through roof penetration is open. Recommend resealing and installing storm collar.



Typical Deficiency - Observed debris at field of roofing. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Leader pipe seam is broken. Recommend repairing and or replacement.



Roof Overview - Building P



Roof Overview - Building P



Typical Deficiency - Asphalt shingles are damaged and missing. Recommend replacing.



Typical Deficiency - Through roof penetration has not been properly sealed. Recommend re-sealing and installing storm collar.



Typical Deficiency - Observed debris at field of roofing. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.

Condition Overview Roof Area: Building H, J, K, L - Dimensional Asphalt Shingles

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Several through roof pipe penetrations have been improperly flashed. Missing and damaged mansard shingles. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Repair shingles as needed.

Install new pipe flashings with storm collars as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Building H, J, K, L, M, N, P - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Damaged membrane. Open through roof pipe penetrations. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Repair damaged membrane as needed.

Install new pipe flashings with storm collars as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

Recommend tear off of existing canopy roofing and installation of new BUR roof system.

Condition Overview Roof Area: Building N, P Clay S Tile

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Budget Estimates:

Annual Roof/Gutter Cleaning and Inspection	\$15,500 - \$17,050
Deficiency Repairs	\$14,500 - \$15,950

Mountain View Whisman School District Roof Assessment



Monta Loma ES

460 Thompson Ave. Mountain View, CA 94043

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Buildings A, B, C, D, E, F, G, H, L, M, N, P Standing Seam Metal Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Standing Seam Metal Roofing
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	5 - 10yrs.
Estimated Useable Life	20 - 25yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings K Standing Seam Metal Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Standing Seam Metal Roofing
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	0 - 5yrs.
Estimated Useable Life	25 - 30yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings A, C, E, F, H Built-up Roofing

Roof System Overview

11001 bystem overview	
Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Gravel
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building A



Roof Overview - Building A



Typical Deficiency - Roof transition is open. Recommend removal of all temporary repairs and installation of as needed permanent repairs.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building C



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Lead pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.



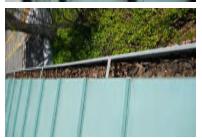
Roof Overview - Building D



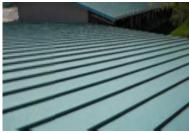
Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building E



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building F



Roof Overview - Building F



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building G



Roof Overview - Building H



Roof Overview - Building H



Typical Deficiency - Metal fascia detail is incomplete. Recommend repairing as necessary to provide a water tight application.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building M



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



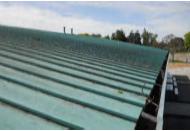
Typical Deficiency - Roof transition/ cricket has been temporarily sealed. Recommend removal of all temporary repairs and installation of as needed permanent repairs.



Roof Overview - Building N



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building P



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.

Condition Overview Roof Area: Buildings A, B, C, D, E, F, G, H, L, M, N, P Standing Seam Metal Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Open roof transitions, and incomplete details. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Repair incomplete details and open roof transitions.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings K Standing Seam Metal Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings A, C, E, F, H Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Displaced gravel exposing membrane to UV.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Re- distribute and adhere gravel with cold adhesive to cover exposed membrane.

Long Term Recommendations

None at this time

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$15,500 - \$17,050
Deficiency Repairs	\$21,000 - \$23,100

Mountain View Whisman School District Roof Assessment



Slater/ Google ES

325 Gladys Ave. Mountain View, CA 94043

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Dimensional Asphalt Shingles
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	5 - 10yrs.
Estimated Useable Life	20 - 25yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings 1, 2, 3, 4, 5, 6, 7 Built-up Roofing

Roof System Overview

noor oystem overview	
Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacture of record and age is unknown.



Roof Overview - Building 1



Roof Overview - Building 1



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 2



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Hip and ridge shingles are missing. Recommend replacing as needed.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.



Roof Overview - Building 3



Roof Overview - Building 3 and 4 Similar



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing band clamps and sealant. Recommend installing stainless steel band clamps, apply sealant, and install storm collar.



Roof Overview - Building 5 and 6 Similar



Roof Overview - Building 5 and 6 Similar



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 7



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Blister between BUR plies. Recommend relieving blister, dry moisture, imbed ply in modified mastic, and apply sacrificial protection membrane in cold adhesive.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6 Dimensional Asphalt Shingle Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing hip, ridge, and field shingles throughout. Missing pipe clamps and storm collars.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Replace missing shingles as needed.

Install stainless steel band clamps and storm collars as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings 1, 2, 3, 4, 5, 6, 7 Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Blistered cap sheet in 1 area. Substantial granule loss at mineral surfaced cap sheet.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Repair blistered membrane.

Long Term Recommendations

Install coating restoration to BUR mineral surfaced cap sheet.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$13,500 - \$14,850
Deficiency Repairs	\$5,000 - \$5,500
Coating Restoration	\$390,000 - \$429,000

Mountain View Whisman School District Roof Assessment



Theuerkauf ES

1625 San Luis Ave. Mountain View, CA 94043

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Buildings A, B, C, D, E, G, H Standing Seam Metal Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Standing Seam Metal Roofing
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	5 - 10yrs.
Estimated Useable Life	20 - 25yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings A, C, E, F, H Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Mineral Surfaced Cap Sheet
Condition	Fair - Good
Approximate Age	10 - 15yrs.
Estimated Useable Life	5 - 10yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building A



Roof Overview - Building A



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Sealant at coping seams has begun to fail. Recommend removal and replacement of sealant as needed.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building B



Roof Overview - Building B



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Roof Overview - Building C



Roof Overview - Building C



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Roof Overview - Building D



Roof Overview - Building D



Typical Deficiency - Ridge cap has buckled. Recommend removal and reinstallation incorporating an expansion plate for movement.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Roof transition/ cricket has been temporarily sealed. Recommend removal of all temporary repairs and installation of as needed permanent repairs.



Roof Overview - Building E



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Ridge closure pieces have buckled. Recommend removal and reinstallation as needed.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage. Through wall scuppers should have debris screens. Recommend installation of gutter screens to promote positive drainage.



Typical Deficiency - Mineral surfaced cap sheet has blistered. Recommend relief cutting blister, imbed in layer of modified mastic, and apply target sheet of mineral surfaced cap sheet in cold applied adhesive.



Typical Deficiency - Damaged gutter. Recommend repair as needed.



Roof Overview - Building F



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



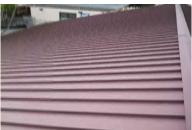
Roof Overview - Building G



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building H



Roof Overview - Building H



Typical Deficiency - Pipe jacks are missing sealant. Recommend application of flexible flashing self-adhered tape and or sealant, and install storm collar.



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Sealant at coping seams has begun to fail. Recommend removal and replacement of sealant as needed.

Condition Overview Roof Area: Buildings A, B, C, D, E, G, H Standing Seam Metal Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing pipe clamps and storm collars. Open ridge enclosures, damaged gutter, and buckled ridge cap details.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Install stainless steel band clamps and storm collars as needed.

Repair metal transitions, ridge cap, and gutter as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings A, C, E, F, H Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Missing pipe clamps and storm collars. Blistered membrane. Sealant at coping seams has begun to fail.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Install stainless steel band clamps and storm collars as needed.

Repair blistered membrane.

Remove and replace sealants at coping seams.

Long Term Recommendations

None at this time

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$15,500 - \$17,050
Deficiency Repairs	\$14,000 - \$15,400

Mountain View Whisman School District Roof Assessment



Whisman/International School

310 Easy Street Mountain View, CA 94043

Prepared By:

Western Roofing Service 15002 Wicks Blvd. San Leandro, CA 94577

Roof Area: Buildings Administration Office, 9 - Standing Seam Metal Roofing

Roof System Overview

Substrate	Wood
Insulation	N/A
Cover board	N/A
Field Assembly	Standing Seam Metal Roofing
Base Flashing Assembly	N/A
Surfacing	N/A
Condition	Good
Approximate Age	5 - 10yrs.
Estimated Useable Life	20 - 25yrs. +/- (With Annual Maintenance) **Projections are based
Remaining	on industry standard lifespan of 25 - 30 years.

Roof Area: Buildings 1, 2, 3, 5, 7, 8, Restroom - Built-up Roofing

Roof System Overview

Substrate	Wood
Insulation	Unknown
Cover board	Unknown
Field Assembly	Hot Asphalt Applied Built-up Roofing
Base Flashing Assembly	Hot Asphalt Applied Built-up Roofing
Surfacing	Gravel
Condition	Poor
Approximate Age	15 - 20yrs.
Estimated Useable Life	0 - 5yrs. +/- (With Annual Maintenance) **Projections are based on
Remaining	industry standard lifespan of 15 - 20 years.

Existing roof system condition assessment and observations are based on the opinion and professional expertise of Western Roofing Service. Roof manufacturer of record and age unknown.



Roof Overview - Building Admin. Office



Roof Overview - Building Admin. Office



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 1



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Roof Overview - Building 2



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Typical Deficiency - Damaged solar panels. Recommend further investigation and repair by licensed solar contractor.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 3



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Typical Deficiency - Unistrut supports have been fastened directly through existing roof system. Recommend removal, repair of roof and refastening support to sleeper, floating block, etc..



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Roof Overview - Building 5



Roof Overview - Building 5



Typical Deficiency - Debris have accumulated at field of roof. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Pitch pocket sealants have dried out and pulled away from flashing. Recommend topping off pitch pocket with compatible sealer or modified mastic and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Leak Reported Below. Recommend further review and assessment.



Roof Overview - Building 7



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Debris have accumulated at field of roof. Recommend trimming trees back from roof eaves, clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Roof Overview - Building 8



Typical Deficiency - Through roof penetrations do not appear to have proper roof jack. Recommend installing proper roof jack and storm collar.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Roof Overview - Building 9



Typical Deficiency - Gutters are full of debris. Recommend clearing debris from all gutters, drains, waterways, and field of roof to promote positive drainage.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of sealants..



Typical Deficiency - Corner of gutter is damaged. Recommend repair and seal as needed.



Roof Overview - Building Restrooms



Typical Deficiency - Areas of displaced gravel. Recommend re-distributing and adhering gravel over bare areas to protect underlying membrane from exposure to UV.



Typical Deficiency - Detailing at through roof penetrations show signs of cracking and delamination. Recommend touch up of mastic at penetrations and application of acrylic or silicone coating to preserve and maintain repair.

Condition Overview Roof Area: Buildings Administration Office, 9 - Standing Seam Metal Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Open roof transitions, and incomplete details. Sealants have begun to dry out. Gutter damage.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Remove and replace damaged sealants.

Repair gutter as needed.

Long Term Recommendations

None at this time.

Condition Overview Roof Area: Buildings 1, 2, 3, 5, 7, 8, Restroom - Built-up Roofing

Existing roof system is performing as designed. Observed accumulation of debris at waterways, gutters, drain assemblies, and field of roofing. Displaced gravel exposing membrane to UV. Damaged solar panels. Mastics around pipes and pitch pockets have begun to dry up. Incorrectly mounted roof top conduits. Incorrect roof jacks.

Immediate Recommendations:

Remove all debris from field of roof, drain assemblies, gutters, and waterways.

Re- distribute and adhere gravel with cold adhesive to cover exposed membrane.

Touch up mastics at penetrations and pitch pockets.

Remove and replace incorrect roof jacks.

Remove incorrectly roof mounted conduits and remount correctly, repair roofing as needed.

Long Term Recommendations

Tear-off and install new BUR roofing at all gravel roof areas.

Budget Estimates

Annual Roof/Gutter Cleaning and Inspection	\$13,500 - \$14,850
Deficiency Repairs	\$20,500 - \$22,550
BUR Re-roof	\$1,180,000 - \$1,298,000



October 22, 2019

Mountain View Whisman School District

Overview of Funding Options & Potential 2020 Bond Measure



Table of Contents

Section

- I. General Obligation Bonds
- II. School Facilities Improvement District Bonds
- III. Mello-Roos Bonds
- IV. Certificates of Participation



Section I

General Obligation Bonds

General Obligation Bonds Overview

A general obligation bond is a common method of debt financing used by California school districts to generate capital project funds

- Lowest borrowing cost of any debt financing technique available to school districts
- Repayment (principal and interest) is made from taxes levied on assessed value of properties within school district boundaries
- Repayment of bonds does not encroach on district general fund
- Requires approval of district's registered voters
 - Bond authorization amount
 - Project list
 - Estimated tax rate



Types of General Obligation Bond Elections

Proposition 46

Proposition 39

Voter Approval Threshold	◆ Two-thirds	◆ 55%
Annual Tax Rate Limits per \$100,000 of AV	◆ None	 \$60 for unified school districts \$30 for elementary and high school districts \$25 for community college districts
Board Approval Threshold	◆ Simple majority of members present	◆ Two-thirds of total members
Election Dates	◆ Any Tuesday	 Statewide primary, general, special, or regularly scheduled local elections In 2020: March 3 & November 3
Use of Bond Proceeds	 Acquisition or improvement of real property only No furnishings or equipment 	 Construction, reconstruction, rehabilitation or replacement of school facilities Furnishings and equipment Acquisition or lease of real property
Accountability Measures	◆ None	Citizens' Oversight CommitteeAnnual audits



Comparison of Parcel Tax & Bond Measures

Parcel Tax

Proposition 39 Bond

Voter Approval Threshold	◆ Two-thirds	◆ 55%	
Primary Use of Proceeds	 Operational: any use, including programs, personnel and operations 	 <u>Capital</u>: facilities and equipment (including technology) 	
Receipt of Proceeds	 Funding received each year as taxpayers pay property taxes 	 Funding received upfront via debt issuance and taxpayers repay principal and interest via property taxes 	
Tax Parameters	 Cannot be based on the value of property (typically a flat rate per parcel) No cap on tax other than political limitations 	 Based on AV of property \$30 per \$100,000 of AV for elementary and high school districts school districts 	
Election Dates	◆ May be on a special election ballot	◆ Regularly scheduled ballot	
Accountability Measures	 Optional Citizens' Oversight Committee 	 Mandatory Citizens' Oversight Committee 	
Senior Exemptions	◆ Allowed	◆ Not allowed	



Bond Program Considerations

General obligation bond programs are generally structured based on:

- Funding needs
 - District projects
 - Scope
 - Cost
 - Timing
- Financing constraints
 - District assessed value
 - Interest rates
 - Tax rates
 - Legal parameters
 - State law
 - Federal law

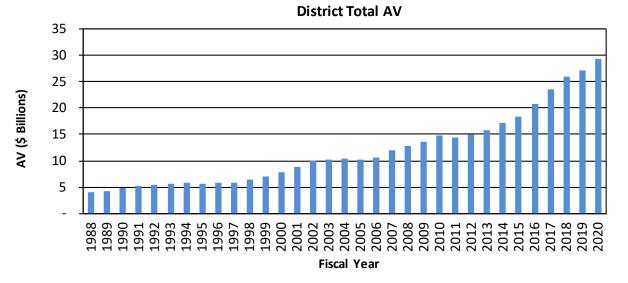
School districts commonly seek multiple GO bond authorizations to meet their ongoing project needs



Assessed Value ("AV") History

Mountain View Whisman SD grew 8.36% in 2019-20

- ◆ The former Mountain View SD represents 62.4% of the total AV
- ◆ The former Whisman SD represents 37.6% of the total AV



Growth Statistics

Annualized Growth Rates:		Lowest Rolling Averages:		
1-year:	8.36 %	3-year:	0.54 %	
5-year:	9.86	5-year:	2.00	
10-year:	7.10	10-year:	4.09	
15-year:	7.35	15-year:	4.87	
20-year:	6.83	20-year:	5.20	
25-year:	6.81	25-year:	5.51	
30-year:	6.22	30-year:	6.37	

(1)	Annual
Total AV (1)	% Change
\$ 4,016,359,523	
4,254,855,681	5.94 %
4,800,206,033	12.82
5,223,278,540	8.81
5,344,021,546	2.31
5,606,013,593	4.90
5,728,071,074	2.18
5,653,430,504	-1.30
5,778,951,712	2.22
5,900,637,935	2.11
6,416,959,960	8.75
7,088,425,781	10.46
7,834,967,334	10.53
8,746,920,698	11.64
9,970,705,164	13.99
10,280,852,219	3.11
10,414,457,142	1.30
10,132,992,586	-2.70
10,654,863,150	5.15
11,900,729,296	11.69
12,767,567,548	7.28
13,650,618,335	6.92
14,785,613,473	8.31
14,397,541,410	-2.62
14,881,752,063	3.36
15,855,098,426	6.54
17,155,503,989	8.20
18,351,287,766	6.97
20,657,107,181	12.56
23,516,716,879	13.84
25,996,182,874	10.54
27,104,016,031	4.26
29,368,739,836	8.36
	4,254,855,681 4,800,206,033 5,223,278,540 5,344,021,546 5,606,013,593 5,728,071,074 5,653,430,504 5,778,951,712 5,900,637,935 6,416,959,960 7,088,425,781 7,834,967,334 8,746,920,698 9,970,705,164 10,280,852,219 10,414,457,142 10,132,992,586 10,654,863,150 11,900,729,296 12,767,567,548 13,650,618,335 14,785,613,473 14,397,541,410 14,881,752,063 15,855,098,426 17,155,503,989 18,351,287,766 20,657,107,181 23,516,716,879 25,996,182,874 27,104,016,031

⁽¹⁾ Source: California Municipal Statistics, Inc. and Santa Clara County.



IRS Spend-Down Requirements

3-year expenditure rule:

- 5% of bond proceeds and earnings committed within 6 months
- 85% of bond proceeds and earnings **spent** within 3 years

5-year expenditure rule:

- 10% of bond proceeds and earnings spent within 1 year
- 30% of bond proceeds and earnings spent within 2 years
- 60% of bond proceeds and earnings **spent** within 3 years
- ◆ 85% of bond proceeds and earnings **spent** within 5 years
- Note: requires that an architect or engineer show that the actual construction/acquisition
 of the project takes up to 5 years



March 2020 Election Scenario

Summary: A new tax for \$30 per \$100,000 of AV (Proposition 39 maximum tax rate) would generate \$259 million in proceeds

Assumptions:

Interest rates: 5.00% - 6.00%

– AV growth rates:

• 2020-21 3.00%

• 2021-22: 4.00%

• Annually thereafter: 4.85%

Current interest bonds only; no capital appreciation bonds

Note: Changing any of the assumptions will impact the total proceeds

- Higher AV growth, lower interest rates, or more issuances will increase the proceeds
- Lower AV growth, higher interest rates, fewer issuances, or a lower tax rate will decrease the proceeds

Net Renayment

Illustrative Issuance Schedule (1)

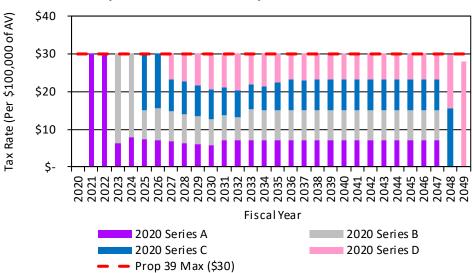
				rectricpayment
Issue	Issue Date	Proceeds		Ratio
Series A	August 2020	\$	64,750,000	1.92 to 1
Series B	August 2022		64,750,000	1.99 to 1
Series C	August 2024		64,750,000	2.12 to 1
Series D	August 2026		64,750,000	2.29 to 1
Total		\$	259,000,000	2.08 to 1

(1) Issuance schedule for illustrative purposes only. Actual amounts and dates will be tailored to the District's project needs.

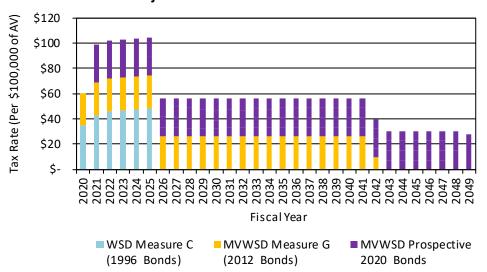


Projected Tax Rates (1)

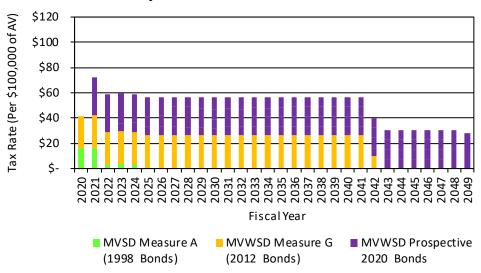




Projected Tax Rates - Whisman SD Portion



Projected Tax Rates - Mountain View SD Portion



(1) Assumes assumptions shown on previous page.



Assembly Bill 195 (2018)

AB 195 requires any tax measure (e.g. bonds) to disclose the following information in the 75-word ballot statement:

- Tax rate
- Amount of money to be raised annually
- Duration of the tax

Following is a sample of an AB 195-compliant 75-word ballot statement:

"To replace leaking roofs, plumbing/electrical systems, repair/replace classrooms for math, science, reading, writing/technology instruction, upgrade outdated safety systems to meet current safety codes, qualify for State matching funds, and acquire equipment/construct facilities, shall this Portola Valley School District measure authorizing \$49,500,000 in bonds at legal rates, Levying \$3.4 million annually at \$30/\$100,000 assessed value while bonds are outstanding, be adopted with oversight, all funds benefiting Portola Valley schools, and not taken by the State?"

Considerations

- ◆ ~15 of the 75 words are used to disclose tax information instead of additional projects
- This may negatively impact support for a new measure



Illustrative March 3, 2020 Election Timeline

Activity	Minimum Timing
Develop or update District facility master plan to identify and prioritize potential bond projects	Currently – Aug 2019
Bond team meeting with District personnel, financial advisor, bond counsel, pollster, and strategist	Currently – Aug 2019
Determine all available sources of capital improvement funds, including State funds, capital fund reserves, donations, developer fees, and bond proceeds	Currently – Aug 2019
Begin community outreach to educate voters on District's facility needs	Currently & Ongoing
Identify issues within the community that could impact the bond election	Aug 2019
Conduct voter opinion survey (if required)	Aug 2019
Adjust community messages based on voter opinion survey	Sep 2019 – Nov 2019
Identify community leaders to serve on campaign committee	Nov 2019
Finalize bond projects list, election amount, estimated tax rates, and draft ballot language	Nov 2019
Adopt resolution, including tax rate statement, calling for bond election (must be received by County Registrar of Voters by December 6, 2019)	Nov 2019
Prepare impartial analysis (bond counsel, county counsel) and pro-ballot argument (committee, campaign consultant) for voter pamphlet	Dec 2019
Fund raising by bond committee	Dec 2019 – Feb 2020
Conduct active "Yes on" campaign	Dec 2019 – Feb 2020
Election	Mar 3, 2020
Certify election results	April 2020
Issuance of bonds	May 2020



Section II

School Facilities Improvement District Bonds

School Facilities Improvement District Bonds Overview

Bonds for School Facilities Improvement Districts ("SFIDs") are general obligation bonds for only a *portion* of a school district's boundaries

- The size of the bond would depend upon the AV of the SFID compared to the AV of the district as a whole
 - For example, if a school district's AV supported a \$100 million bond, an SFID that represented
 50% of the territory of the school district would therefore support a ~\$50 million bond
- The County Board of Supervisors and Board of Trustees must approve resolutions to form the SFID(s)

SFIDs are a good option for districts that wish to only tax a portion of the district

- For example, if a district needed to renovate schools that only benefited one portion of the district, an SFID might be considered
- The following districts have put bond measures on the ballot for SFIDs since 2014:
 - Saugus Union SD
 - Upper Lake USD
 - Centinela Valley UHSD
 - Santa Barbara USD
 - Hughson USD

- Western Placer USD
- Mountain View SD
- Mojave USD
- Tracy USD

After the formation of the SFID, the general timeline for voter approval and issuance of SFID bonds is the same as the timeline for general obligation bonds



Section III

Mello-Roos Bonds

Mello-Roos Bonds Overview

Mello-Roos bonds are a type of land secured financing that leverages the value of land in a portion of the school district

- Most commonly-used method of financing infrastructure for new development on the local government level in California
- Special taxes are collected using a special tax formula
 - Bonds may or may not be issued against the special tax revenue stream
 - If Bonds are issued, special tax revenues will be used to pay debt service on bonds annually
 - Bonds are generally issued on a tax-exempt basis
- To form, the school district sponsors the creation of a Community Facilities District ("CFD")
 - CFD legal authority is the Mello-Roos Community Facilities Act of 1982 (hence "Mello-Roos" bonds)
 - Requires approval of 2/3rds of CFD's registered voters
 - Property owners agree/vote to put lien on property
 - If less than 12 registered voters in CFD, vote is by landowner, weighted by acreage, otherwise vote is by registered voters in CFD
 - The timeline from start to finish for bond issuance is dependent on the developer and development status
- Repayment of bonds does not impact public agency general fund



Benefits of Mello-Roos Special Taxes

Developer perspective:

- Access lower cost of financing with tax-exempt interest rates
 - Without a CFD, developer must pay fees at the time a building permit is obtained and carry financing cost of fees until home is sold
 - With a CFD, fees reimbursed through the issuance of bonds
- Non-recourse, off-balance sheet financing
 - Cost of developer fees passed to homeowner over time through the special tax levy rather than in the selling price of the home
- Provide funds/projects to public agency sooner so schools open when new homes are completed

Public agency perspective:

- Assist in financing public facilities
 - Allows for earlier construction of school facilities compared to funding from developer fees
 - Developer fees typically paid at building permit
 - Approximately 6 months from building permit to completed home
- Repayment burden is on property owners, not public agency
- Generate new revenue source for projects



What Can Land Secured Bonds Finance?

- The revenue stream from the Mello-Roos special taxes may fund facilities or services
 - If bonds are issued against the revenue stream, then the bonds can be issued to fund capital projects only
- Facilities financed must be owned and operated by a public agency
 - Owned/controlled by public agency and/or
 - Owned, operated and maintained by other public entities
 - Joint Community Facilities Agreements with other public entities
- Public improvements must have a useful life longer than five years
- May or may not be physically located in CFD



Special Tax Formula

The special tax formula governs the special taxes levied in a CFD

- Special taxes may be levied for both infrastructure and services
- Special taxes may be levied on developed and undeveloped property
- Special taxes can not be based on the value of a home
- Rate and Method of Apportionment ("RMA") is flexible
 - Rates may be based on size of residential property (lot or home) and acreage if commercial/industrial;
 - Priority of levy may be given to developed property over undeveloped property
- Special tax rate is set at a manageable level for future homeowners (typically below 2% effective tax rate)

A special tax consultant is typically hired to do the special tax calculations based on the proposed development



CFD Formation Overview

In general, CFD formation and bond issuance process are as follows:

- Public agency/property owner initiates petition
- Public agency goals & policies are adopted
- Public agency board commences CFD proceedings
- Public hearing
- Election
- Final actions taken by board
- Bonds issued
- Project costs funded/reimbursed
- Annual special taxes levied



Section IV

Certificates of Participation

Certificates of Participation Overview

Certificates of participation ("COPs") are a common method of financing used by California school districts to construct/acquire real or personal property

- Repaid from any legally available source of funds (typically General Fund for most districts)
- Funds can be used for capital projects of the District; cannot be used for operations
- Borrowing costs are tax-exempt (assuming qualified tax-exempt use of proceeds)
- Can be structured with early prepayment options (any legally available source of funds)
- Financing term must be commensurate with the useful life of the project

No voter approval required

- District must provide written notification of financing to the County Office of Education and Auditor-Controller's Office
 - Estimated financing repayment schedule
 - Projected sources of funds for COP repayment
- ◆ The timeline for issuance is 3-4 months from start to finish

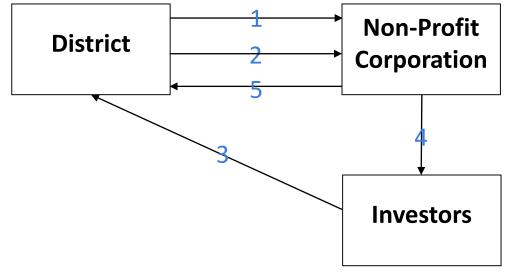
District must carefully assess their ability to repay COPs to avoid overburdening the sources of funding



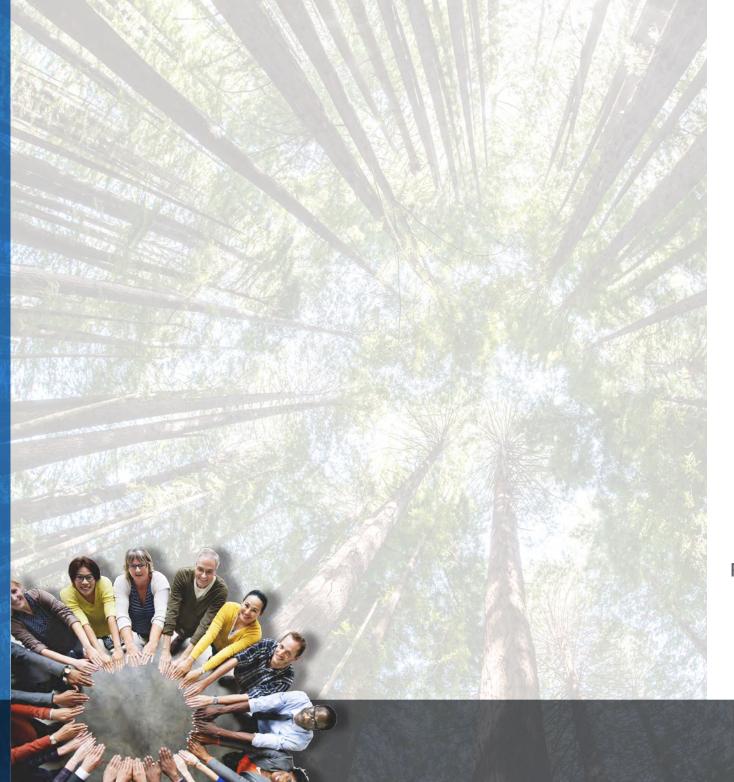
COP Diagram

Under California law, school districts cannot enter into non-voter approved debt for longer than one year. COPs are structured as a lease/leaseback (not the same as the lease/leaseback project delivery method), allowing districts to incur debt for a longer period of time. This is a common practice that California school districts have employed for decades.

- District assigns rights of an essential District site (e.g. school site) to a non-profit organization (e.g. CSBA, District-formed, or other organization)
- 2. District maintains useful possession of site and as such, makes lease payments to the non-profit for useful possession
- 3. Investors provide capital improvement funds to District by purchasing COPs from the District
- 4. Non-profit organization assigns lease payments to Investors (repayment of COPs)
- 5. Rights of the essential site return to the District once COPs are completely repaid









PROJECT COST ESTIMATES

TBD Consultants

APPENDIX F

MVWSD MASTER FACILITIES PLAN

November 2019

Mountain View Whisham School District

Student Facilities Improvement Plan Update

Mountain View, California

Masterplan Budget Plan

Report Prepared for:

Artik Art & Architecture

September 30, 2019



Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

BASIS OF ESTIMATE

REFERENCE DOCUMENTATION

This Construction Cost Estimate was produced from the following documentation. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

Document

- SFIP Update-2019_PROJECTS_16 Sep 19_v2

BASIS FOR PRICING

This estimate reflects the fair construction value for this project and should not be construed as a prediction of low bid. Prices are based on local prevailing wage construction costs at the time the estimate was prepared. Pricing assumes a procurement process with competitive bidding for all sub-trades of the construction work, which is to mean a minimum of 3 bids for all subcontractors and materials/equipment suppliers. If fewer bids are solicited or received, prices can be expected to be higher.

Subcontractor's markups have been included in each line item unit price. Markups cover the cost of field overhead, home office overhead and subcontractor's profit. Subcontractor's markups typically range from 15% to 25% of the unit price depending on market conditions.

General Contractor's/Construction Manager's Site Requirement costs are calculated on a percentage basis. General Contractor's/Construction Manager's Jobsite Management costs are also calculated on a percentage basis.

 Site Requirements
 5.0%

 Jobsite Management
 10.0%

 Phasing
 0.0%

General Contractor's/Construction Manager's overhead and fees are based on a percentage of the total direct costs plus general conditions, and covers the contractor's bond, insurance, site office overheads and profit,

Insurance & Bonding 2.5%
General Contractor Bonding
Sub-Contractor Bonding

OSIP

Fee (G.C. Profit) 5.0%

Unless identified otherwise, the cost of such items as overtime, shift premiums and construction phasing are not included in the line item unit price.

This cost estimate is based on standard industry practice, professional experience and knowledge of the local construction market costs. TBD Consultants have no control over the material and labor costs, contractors methods of establishing prices or the market and bidding conditions at the time of bid. Therefore TBD Consultants do not guarantee that the bids received will not vary from this cost estimate.

CONTINGENCY

Design Contingency 15.0%

The Design Contingency is carried to cover scope that lacks definition and scope that is anticipated to be added to the Design. As the Design becomes more complete the Design Contingency will reduce.

Construction Contingency 10.0%

The Construction Contingency is carried to cover the unforeseen during construction execution and Risks that do not currently have mitigation plans. As Risks are mitigated, Construction Contingency can be reduce, but should not be eliminated.

Soft Costs 30.0%

An owners contingency has not been included in this construction cost estimate, but it is advised that the owner carry additional contingency to cover scope change, bidding conditions, claims and delays.

Page 1 of 43



Masterplan Budget Plan September 30, 2019

BASIS OF ESTIMATE

ESCALATION

Escalation is included to October 2024 at the following per annum escalation rates:

33,82%
6.00%
6.00%
6.00%
6.00%
6.00%
6.00%

This calculation does not account for adverse bidding conditions and a separate Bid Contingency should be carried if there are limited qualified bidders or if a market research study indicates.

EXCLUSIONS

- Land acquisition, feasibility studies, financing costs and all other owner costs
- All professional fees and insurance

- All professional rees and insurance
 Site surveys, existing condition reports and soils investigation costs
 Items identified in the design as Not In Contract (NIC)
 Hazardous materials investigations and abatement
 Utility company back charges, including work required off-site and utilities rates
 Work to City streets and sidewalks
 Items defined as Vendor / Owner supplied and Vendor / Owner installed
- Permits
- Owners contingency
 Overtime, 2nd shift and lost productivity premiums
- Design Fees - PG & E Fees
- Sustainability Fees (LEED)
- Furniture, fixtures and equipment (FF&E)

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

KEY CRITERIA

AREA TABULATION

	AREAS	
Bubb Elementary School	36,955 SF	
Huff Elementary School	35,677 SF	
Landels Elementary School	35,232 SF	
Mistral Elementary School	29,116 SF	
Castro Elementary School	35,804 SF	
Monta Loma Elementary School	40,379 SF	
Stevenson Elementary School	32,079 SF	
Theuerkauf Elementary School	37,969 SF	
Vargas Elementary School	25,488 SF	
Crittenden Elementary School	106,781 SF	
Graham Elementary School	84,173 SF	
Latham Elementary School	5,760 SF	
TOTAL AREA	505,413 SF	

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Masterplan Budget Plan September 30, 2019

EXECUTIVE SUMMARY

RECUTIVE SUMMARY	GSF	\$ / SF	TOTAL	COMMENTS
PROJECT COSTS INCLUDING MARKUPS & SOFT COSTS				
BUBB ELEMENTARY SCHOOL	36,955 GSF	\$767.41	28,359,647	
HUFF ELEMENTARY SCHOOL	35,677 GSF	\$630.50	22,494,254	
LANDELS ELEMENTARY SCHOOL	35,232 GSF	\$822.42	28,975,420	
MISTRAL ELEMENTARY SCHOOL	29,116 GSF	\$788.20	22,949,282	
CASTRO ELEMENTARY SCHOOL	35,804 GSF	\$260.92	9,341,841	
MONTA LOMA ELEMENTARY SCHOOL	40,379 GSF	\$744.70	30,070,362	
STEVENSON ELEMENTARY SCHOOL	32,079 GSF	\$271.80	8,719,231	
THEUERKAUF ELEMENTARY SCHOOL	37,969 GSF	\$1,026.75	38,984,532	
VARGAS ELEMENTARY SCHOOL	25,488 GSF	\$141.25	3,600,265	
CRITTENDEN ELEMENTARY SCHOOL	106,781 GSF	\$616.45	65,824,902	
GRAHAM ELEMENTARY SCHOOL	84,173 GSF	\$607.23	51,112,751	
LATHAM ELEMENTARY SCHOOL	5,760 GSF	\$293.93	1,693,022	
TOTAL CONSTRUCTION COST	505,413 GSF	\$617.57	312,125,509	

Page 4 of 43

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78,500

Mountain View Whisham School District Student Pacifiles Improvement Plan Update Mountain View, California						fbd consult	ants							Mesterplan Budget Plan September 30, 2019
MVWSD CONSTRUCTION COST SUMMARY														
PRIGRITY/PROJECT 3 LANDSCAPE: CAMPUS FRONTAGE 3 SISNAGE: CAMPUS FRONTAGE 3 PICKUPDORPORT: PARKING 3 CLASSROOM MODERNIZATION		999,600 85,000 898,600	8088	HUFF	LANDELS	MISTRAL	CASTRO	MONTA LOMA	STEVENSON	999,600	VARGAS	CRITTENDEN	85,000 898,900 not required	LATHAM
SUBTOTAL PRIORITY 3		28,856,122	4,290,269	4,353,573	2,190,333	3,682,260	1,240,400	2,107,070	78,500	3,361,506		2,974,365	4,587,846	
PEDESTRIAN TRAIL GOVERED WALKWAY PICKUPIOROPOFF, PARKING NEW ASHPALT OWERLAY RESTROOM MODERNIZATION		52,250 2,442,500 470,000 214,700 237,000	52,250 420,000	630,000 470,000	483,000	332,900		133,000		214,700 237,000			444,000	
4 PLAYFIELD RAIL UPGRADE 4 AUDITORIUM SYSTEMS UPGRADE 4 PLAYGROUND - RELOCATE BIKE ENCLOSURE		25,000 200,000 30,000										25,000 200,000	30,000	
SUBTOTAL PRIORITY 4		3,671,450	472,250	1,100,000	483,000	332,500		133,000		451,700		225,000	474,020	
TBD SOLAR PANELS TBD ELECTRICAL UPGRADE TBD STRUCTURAL UPGRADE		TBD 624,000 348,750								624,000		348,750		
SUBTOTAL PRIORITY TBD		972,750								624,000		348,750		
DERECT COSTS		121,719,998	11,039,449	8,772,114	11,299,583	8,949,562	3,643,050	11,726,579	3,400,250	15,202,850	1,404,000	25,669,824	19,932,507	460,230
SITE REQUIREMENTS JOBSITE MANAGEMENT PHASING	5,0% 10,0%	6,096,000 12,172,000	952,972 1,105,945	438,606 877,211	564,979 1,129,968	447,478 894,956	182,153 364,306	586,329 1,172,668	170,013 340,025	760,142 1,520,285	70,200 140,400	1,283,491 2,666,962	996,625 1,993,251	33,012 66,023
ESTIMATE SUB-TOTAL		139,977,997	12,718,396	10,087,931	12,994,520	10,291,996	4,189,508	13,485,566	3,910,288	17,483,277	1,614,600	29,520,298	22,922,383	759,265
INSURANCE + BONDING FEE	2,5% 5,0%	3,499,450 6,998,900	317,969 635,918	252,198 504,397	324,963 649,726	267,300 514,900	104,738 209,475	337,139 674,278	97,757 195,514	437,082 874,164	40,365 80,730	738,007 1,476,015	573,060 1,145,119	18,982 37,963
ESTIMATE SUB-TOTAL		150,476,347	13,672,244	10,844,526	13,969,109	11,063,896	4,503,721	14,498,483	4,263,559	18,794,523	1,735,895	31,734,320	24,641,562	216,209
DESIGN CONTINGENCY CONSTRUCTION CONTINGENCY SOFT COSTS	15.0% 10.0% 30.0%	22,671,462 15,047,635 45,142,904	2,060,837 1,367,224 4,101,673	1,626,679 1,084,453 3,253,358	2,095,366 1,398,911 4,190,733	1,659,584 1,108,390 3,319,169	675,558 450,372 1,351,116	2,174,547 1,449,698 4,349,095	630,534 420,356 1,281,068	2,819,178 1,879,452 5,638,357	260,354 173,570 520,709	4,790,148 3,173,432 9,520,296	3,698,234 2,464,156 7,392,469	122,431 81,621 244,963
ESTIMATE SUB-TOTAL		233,238,338	21,191,978	16,809,015	21,652,120	17,149,039	6,910,767	22,470,324	6,515,517	29,131,510	2,690,327	49,188,196	38,194,421	1,265,124
ESCALATION	93 GN	70 007 171	7 107 669	E 695 719	7 923 301	E 900 244	2 261 074	7 600 029	2 202 714	9.953.033	919 927	16 616 706	12 919 210	427 997

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Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

BUBB ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 36,955

	RIORITY	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
2		Replace HVAC					
3		Neplace IIVAO					
		New HVAC allowance serving Bldg 1, 3, 4 and					
4		5, assume new rooftop units, replace ductwork	22,480	SF	32.00	740.000	
4		and diffusers as necessary, disconnect	22,400	Sr.	32.00	719,360	
		reconnect services and electrical					
5							
6							
7	1	REPLACE HVAC				719,360	32 \$/SF
8							
9		Fences And Gates - Ornamental					
10 11		Demo existing	1	LS	3,000.00	3,000	
12		Ornamental fence	425	LF	200.00	85,000	8'ht
13		Gates	2	EA	5.000.00	10,000	pedestrian
14					-,	,	
15							
16	1	FENCES AND GATES - ORNAMENTAL				98,000	
17						-	
18		Fences And Gates - Chain Link					
19							
20		Demo existing	1	LS	6,000.00	6,000	
21		Chain link fence	1,150	LF	75.00	86,250	
22		Gates	2	EA	3,500.00	7,000	pedestrian
23		Gates	1	EA	10,000.00	10,000	vehicular
24 25							
	1	FENCES AND GATES - CHAIN LINK				109,250	
26	1	FENCES AND GATES - CHAIN LINK				109,250	
27							
28 29		Pickup/Dropoff, Parking					
30		Demolition of existing	35,000	SF	1.00	35,000	
31		Rough and fine grading, allow	35.000	SF	0.50	17.500	
32		New hardscape - concrete/asphalt	24,500	SF	12.00	294,000	70%
33		Allow for curbs, striping, signage, wheel stops	1	LS	65,000.00	65,000	
		etc					
34		Softscape - allow for minimal trees/shrubs	10,500	SF	15.00	157,500	30%
35		Drainage	35,000	SF	2.50	87,500	
36 37		Irrigation Lighting	10,500 35,000	SF SF	3.00 3.00	31,500 105.000	
38		Lighting	35,000	or_	3.00	105,000	
39							
40	1	PICKUP/DROPOFF, PARKING				793,000	23 \$/SF
41	•					,	
42		Collaborative Instructional Spaces					
43							
44		Remove partitions to accommodate for	120	LF	75.00	9,000	
		operable walls, including hazmat allowance					
45		Structural work allowance	1	LS	20,000.00	20,000	at dividing walls only
46		New operable walls	120	LF	1,800.00	216,000	as required at disturbed areas alon
47		Cut & patch interiors at renovated walls	120	LF	120.00	14,400	wall, excludes new classroom
		<u> </u>					finishes
48		MEP reconfiguration allowance	22,480	SF	4.00	89,920	
49		New construction/expansion for breakout spaces	4,000	SF	500.00	2,000,000	
50		spaces					
51							
52	1	COLLABORATIVE INSTRUCTIONAL SPACES				2,349,320	89 \$/SF
		COLLABORATIVE INSTRUCTIONAL SPACES				2,040,020	00 4/5
53 54		Lighting					
55		Lighting					
		Install site lighting in parking and playground					
56		areas	156,000	SF	1.50	234,000	for safety/security
57		Remove existing	156,000	SF	0.25	39,000	
58							

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Masterplan Budget Plan September 30, 2019

BUBB ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 36,955

REF	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
60	2	LIGHTING				273,000	2 \$/SF
61							
62		New Ashpalt Overlay					
64		Demolish existing	63,500	SF	1.00	63,500	
65		Asphalt overlay of existing playground	63,500	SF	4.50	285,750	
66		(pedestrian use)	00,000	•		200,100	
67							
68	2	NEW ASHPALT OVERLAY				349,250	6 \$/SF
69							
70		Utility Survey					
71		Condition Survey of underground utility lines					
72		(gas, domestic water, sanitary sewer,	244,500	SF	0.20	48.900	
		bldg/stormwater drain, electrical, data)					
73							
74	2	LITH TV OUDVEY				40.000	
75	2	UTILITY SURVEY				48,900	0 \$/SF
76 77		Technology Upgrade					
78		-comercity opgrade					
		Replace fiber optic and copper cable networks					
79		from MDF bldg 2 to Bldgs. 1,3, 4,5,6, MUR, P1, reuse existing raceways as necessary, replace	2,220	LF	25.00	55,500	
		if needed					
80							
81							
82	2	TECHNOLOGY UPGRADE				55,500	
83		0.441					
84		Outdoor Learning Classroom					
86		Demolition	35,100	SF	1.00	35,100	
87		Rough and fine grading, allow	35,100	SF	0.50	17,550	
88 89		New hardscape	17,550 17,550	SF SF	35.00 15.00	614,250 263,250	50% 50%
90		New softscape Drainage	35,100	SF	2.50	87,750	30%
91		Irrigation	17,550	SF	3.00	52,650	
92		Allow for site furnishings - benches, seatwalls,	35,100	SF	5.00	175,500	
93		tables etc) Shade feature, allow	1	LS	150,000.00	150,000	allowance
94		Electric/data connections	35,100	SF	1.00	35,100	
95		Lighting	35,100	SF	2.00	70,200	
96							
97	2	OUTDOOR LEARNING CLASSROOM				1,501,350	43 \$/SF
98	2	OUTDOOK LEARINING CLASSROOM				1,501,350	43 3/35
100		Roof Repair					
101							
		Repair damaged membrane, pipe	22.22		7.00	044.005	
102		flashings/storm collars, gutters/drain assemblies - allow	30,667	SF	7.00	214,669	Not a roof replacement
103		G.1079					
104							
105	3	ROOF REPAIR				214,669	7 \$/SF
106							
107		WINDOW REPLACEMENT					
		Replace existing glass windows with thermal					
109		insulating glass	1	LS	1,375,000.00	1,375,000	remove and replace - allowance
110		~ ~					
111							
112	3	WINDOW REPLACEMENT				1,375,000	

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

	'RIOR <u>IT</u>	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
13							
4		Utility Network Repairs					
5		Assume repair/replacement of 75% sanitary					
6		sewer lines, 50% of stormwater drain lines, 25%	244,500	SF	3.00	733,500	
		of domestic water lines, 25% gas lines.	244,000	OI	0.00	700,000	
17							
18							
19	3	UTILITY NETWORK REPAIRS				733,500	3 \$/SF
20							
21		Restroom Modernization					
22							
23		Remove and replace wall finishes	2,300	SF	25.00	57,500	
24		Remove and replace ceiling finishes	1,520	SF	30.00	45,600	No
25		Fixtures, walls tiles and partitions					No work required No work required
26 27		Misc. MEP rework/reconfiguration					No work required
28							
29	3	RESTROOM MODERNIZATION				103,100	68 \$/SF
30						,	
31		Playground K					
32							
33		Demolish existing	3,800	SF	1.00	3,800	
134		Rough and fine grading, allow	3,800	SF	0.50	1,900	
35		Tot turf	3,800	SF	18.00	68,400	
36		Drainage	3,800	SF	2.50	9,500	
137		Irrigation	3,800	SF	3.00	11,400	
138		Lighting	3,800	SF	3.00	11,400	
139		Play equipment allowance	2 900	LS	50,000.00	50,000	
139 140		Miscellaneous site benches, furnishings etc	3,800	SF	3.00	11,400	
42							
43	3	PLAYGROUND K				167,800	44 \$/SF
44						,	
45		Playground 1-5					
146							
				SF	1.00	5,200	
47		Demolish existing	5,200				
48		Rough and fine grading, allow	5,200	SF	0.50	2,600	
48 49		Rough and fine grading, allow Tot turf	5,200 5,200	SF SF	18.00	93,600	
48 49 50		Rough and fine grading, allow Tot turf Drainage	5,200 5,200 5,200	SF SF SF	18.00 2.50	93,600 13,000	
48 49 50 51		Rough and fine grading, allow Tot turf Drainage Irrigation	5,200 5,200 5,200 5,200	SF SF SF	18.00 2.50 3.00	93,600 13,000 15,600	
48 49 50 51 52		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting	5,200 5,200 5,200 5,200 5,200	SF SF SF SF SF	18.00 2.50 3.00 3.00	93,600 13,000 15,600 15,600	
148 149 150 151 152		Rough and fine grading, allow Tot turf Drainage Irrigation Lightling Play equipment allowance	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000	
48 49 50 51 52 53 53		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting	5,200 5,200 5,200 5,200 5,200	SF SF SF SF SF	18.00 2.50 3.00 3.00	93,600 13,000 15,600 15,600	
48 49 50 51 52 53 53		Rough and fine grading, allow Tot turf Drainage Irrigation Lightling Play equipment allowance	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000	
48 49 50 51 52 53 53 54 56	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000 15,600	41 S/SE
148 149 150 151 152 153 153 154 156	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lightling Play equipment allowance	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000	41 \$/SF
147 148 149 150 151 152 153 153 154 156	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000 15,600	41 \$/SF
48 49 50 51 52 53 53 54 56 57 58	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000 15,600	41 \$/\$F
148 149 150 151 152 153 153 154 156	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion	5,200 5,200 5,200 5,200 5,200 5,200 1 5,200	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200	41 \$/SF
48 49 50 51 52 53 53 54 56 57 58 59 60 61	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc	5,200 5,200 5,200 5,200 5,200 1	SF SF SF SF SF LS	18.00 2.50 3.00 3.00 50,000.00	93,600 13,000 15,600 15,600 50,000 15,600	41 \$/SF
48 49 50 51 52 53 53 54 56 57 58 59 60 61 62	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion	5,200 5,200 5,200 5,200 5,200 5,200 1 5,200	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200	41 \$/\$F
48 49 50 51 52 53 54 56 57 58 59 60 61 62 63	3	Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion	5,200 5,200 5,200 5,200 5,200 5,200 1 5,200	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200	41 \$/SF 550 \$/SF
148 149 150 151 152 153 153 154 156 157 158 159 160 161 162 163 164		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance	5,200 5,200 5,200 5,200 5,200 5,200 1 5,200	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200	
148 149 150 151 152 153 153 154 156 157 158 159 160 161 162 163		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance	5,200 5,200 5,200 5,200 5,200 5,200 1 5,200	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200	
48 49 50 51 52 53 53 54 56 57 58 59 60 61 62 63 64 65 66		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance ADMIN/EXTENDED CARE EXPANSION Pedestrian Trail	5,200 5,200 5,200 5,200 5,200 1 5,200 2,700	SF SF SF SF SF LS SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93.600 13.000 15.600 15.600 15.600 211,200 1,485,000	
148 149 150 151 152 153 153 154 156 156 157 158 159 160 161 162 163 165 166 165 166		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance ADMIN/EXTENDED CARE EXPANSION	5.200 5.200 5.200 5.200 5.200 5.200 1 5.200 2.700	SF SF SF SF SF SF SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200 1,485,000	
148 149 150 151 152 153 154 155 155 155 156 166 166 166 166		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance ADMIN/EXTENDED CARE EXPANSION Pedestrian Trail Demolish existing Rough and fine grading, allow	5.200 5.200 5.200 5.200 5.200 5.200 1 5.200 2.700	SF SF SF SF SF SF	18.00 2.50 3.00 3.00 50,000.00 3.00 550,000.00 550,000	93,600 13,000 15,600 15,600 15,600 211,200 1,485,000 1,485,000	
148 149 150 151 152 153 154 155 155 155 156 157 158 160 161 162 163 164 165 166 167 168		Rough and fine grading, allow Tot turf Drainage Irrigation Lighting Play equipment allowance Miscellaneous site benches, furnishings etc PLAYGROUND 1-5 Admin/Extended Care Expansion New building allowance ADMIN/EXTENDED CARE EXPANSION Pedestrian Trail Demolish existing	5.200 5.200 5.200 5.200 5.200 5.200 1 5.200 2.700	SF SF SF SF SF SF SF	18.00 2.50 3.00 3.00 50,000.00 3.00	93,600 13,000 15,600 15,600 50,000 15,600 211,200 1,485,000	

52,250

10 \$/SF

173

4 PEDESTRIAN TRAIL



Masterplan Budget Plan September 30, 2019

GSF: 36,955

BUBB ELEMENTARY SCHOOL - ESTIMATE DETAIL

DEE D	DIODITY	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
	NIONII	DESCRIFITON	QUANTITI	OOM	UNITRATE	TOTAL	COMMENTS
174							
175		Covered Walkway					
176							
177		Repair/reroof 50% of covered area as needed	12,000	SF	35.00	420,000	no work to walkway required
178							
179							
180	4	COVERED WALKWAY				420,000	35 \$/SF
181							
182		Solar Panels					Under District Study - excluded
183							
184							
185	TBD	SOLAR PANELS					

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

PR	IORIT'	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
			40,111111		0	101712	JOININE ITTO
		Replace HVAC					
		Navel IVAO ellevenes and in Blide C. O. A and					
		New HVAC allowance serving Bldg 2, 3, 4 and 5, assume new rooftop units, replace ductwork					
		and diffusers as necessary, disconnect	21,363	SF	32.00	683,616	
		reconnect services and electrical					
		Toodingst out those and shoulder					
	1	REPLACE HVAC				683,616	32 \$/SF
		Shade Structure					
		New steel frame, open-sided shade structure					
		with a solid roof	4,500	SF	125.00	562,500	no new paving assumed
		111111111111111111111111111111111111111					
	1	SHADE STRUCTURE				562,500	125 \$/SF
		Fences & Gates - Ornamental					
		Demo existing	1	LS	200.00	200	
		Ornamental fence	330	LF	200.00	66,000	8'ht
		Gates	2	EA	5,000.00	10,000	pedestrian
					-,		
	2	FENCES & GATES - ORNAMENTAL				76,200	
		<u>Lighting</u>					
		Low level perimeter area (safety) lighting around	154,000	SF	1.50	231,000	for safety/security
		parking, walkways, playground, driveways				201,000	,,
		Remove existing	154,000	SF	0.25	38,500	
	2	LIGHTING				269,500	2 \$/SF
		LIGHTING				209,500	2 \$/SF
		New Ashpalt Overlay					
		New Astipate Overlay					
		Asphalt overlay of existing playground	54.000	0.5	4.50	0.40.000	
		(pedestrian use)	54,000	SF	4.50	243,000	
		Demolish existing	54,000	SF	1.00	54,000	
	2	NEW ASHPALT OVERLAY				297,000	6 \$/SF
		Here o					
		Utility Survey					
		Condition Survey of underground utility lines					
		(gas, domestic water, sanitary sewer,	277,000	SF	0.20	55,400	
		bldg/stormwater drain, electrical, data)					
	_						
	2	UTILITY SURVEY				55,400	
		Technology Upgrade					
		recimology opgrade					
		Replace fiber optic and copper cable networks					
		from MDF bldg 1 to Bldgs 2,3, 4,5,6, reuse	1 605	1.5	25.00	42 275	
		existing raceways as necessary, replace if	1,695	LF	25.00	42,375	
		needed					

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Outdoor Landscaped Spaces



Masterplan Budget Plan September 30, 2019

HUFF ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,677

EF P	RIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
55		<u> </u>					
56		Demolition	30,700	SF	1.00	30,700	
57		Rough and fine grading, allow	30,700	SF	0.50	15,350	
58		New hardscape	15,350	SF	35.00	537,250	50% 50%
59		Newsoftscape	15,350 30.700	SF SF	15.00 2.50	230,250 76.750	50%
60 61		Drainage Irrigation	30,700 15,350	SF SF	2.50 3.00	76,750 46,050	
ы		Allow for site furnishings - benches, seatwalls,					
62		tables etc)	30,700	SF	5.00	153,500	
63		Shade feature, allow	1	LS	150,000.00	150,000	allowance
64		Electric/data connections	30,700	SF	1.00	30,700	
65		Lighting	30,700	SF	2.00	61,400	
66		-00	,				
67							
68	2	OUTDOOR LANDSCAPED SPACES				1,331,950	43 \$/SF
69						.,,	
70		Roof Repair					
71		- Itour Hopan					
		Repair damaged membrane, pipe					
72		flashings/storm collars, gutters/drain assemblies	29,389	SF	7.00	205,723	Not a roof replacement
73							
74							
75	3	ROOF REPAIR				205,723	7 \$/SF
76						,	
77		WINDOW REPLACEMENT					
78		OTT NEI ENGEMENT					
		Replace existing glass windows with thermal					
79		insulating glass	1	LS	1,320,000.00	1,320,000	remove and replace - allowance
80		5 9					
81							
82	3	WINDOW REPLACEMENT				1,320,000	
83						.,,	
84		Utility Network Repairs					
85		Canti record repairs					
		Assume repair/replacement of 75% sanitary					
86		sewer lines, 50% of stormwater drain lines, 25%	277,000	SF	3.00	831,000	
		of domestic water lines, 25% gas lines					
87							
88							
89	3	UTILITY NETWORK REPAIRS				831,000	3 \$/SF
90						· · · · · · · · · · · · · · · · · · ·	
91		Restroom Modernization					
92							
93		Remove and replace wall finishes	2,300	SF	25.00	57,500	
94		Remove and replace ceiling finishes	1,530	SF	30.00	45,900	
95		Fixtures, walls tiles and partitions					No work required
96		Misc. MEP rework/reconfiguration					No work required
97		<u> </u>					
98							
99	3	RESTROOM MODERNIZATION				103,400	68 \$/SF
100							
101		Playground K					
102							
103		Demolish existing	3,150	SF	1.00	3,150	
104		Rough and fine grading, allow	3,150	SF	0.50	1,575	
105		Tot turf	3,150	SF	18.00	56,700	
106		Drainage	3,150	SF	2.50	7,875	
107		Irrigation	3,150	SF	3.00	9,450	
108		Lighting	3,150	SF	3.00	9,450	
109		Play equipment allowance	1	LS	50,000.00	50,000	
109		Miscellaneous site benches, furnishings etc	3,150	SF	3.00	9,450	
110							
112	3	PLAYGROUND K				147,650	47 \$/SF

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

HUFF	ELEMENT	FARY SCHOOL - ESTIMATE DETAIL				GSF:	35,677
REF	PRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
116							
117		Demolish existing	6,800	SF	1.00	6,800	
118		Rough and fine grading, allow	6,800	SF	0.50	3,400	
119		Tot turf	6,800	SF	18.00	122,400	
120		Drainage	6,800	SF	2.50	17,000	
121		Irrigation	6,800	SF	3.00	20,400	
122		Lighting	6,800	SF	3.00	20,400	
123		Play equipment allowance	1	LS	50,000.00	50,000	
123		Miscellaneous site benches, furnishings etc	6,800	SF	3.00	20,400	
124							
126							
127	3	PLAYGROUND 1-5				260,800	38 \$/SF
128							
129		Admin/Extended Care Expansion					
130							
131		New building allowance	2,700	SF	550.00	1,485,000	
122		-					

102								
133								
134	3	ADMIN/EXTENDED CARE EXPANSION				1,485,000	550 \$/SF	
135								
136		Pickup/Dropoff, Parking						
137								
138		Demolition of existing	18,800	SF	1.00	18,800		
139		Rough and fine grading, allow	18,800	SF	0.50	9,400		
140		Reconfigure, restripe and improve landscaping and pathways	18,800	SF	15.00	282,000		
141		Drainage	18,800	SF	2.50	47,000		
142		Irrigation	18,800	SF	3.00	56,400		
143		Lighting	18,800	SF	3.00	56,400		
144								
145								
146	4	PICKUP/DROPOFF, PARKING				470,000	25 \$/SF	
147								
148		Covered Walkway						
149								
			40.000		05.00	000 000		

150		Repair/reroof 50% of covered area as needed	18,000	SF	35.00	630,000	no work to walkway required
151							
152							
153	4	COVERED WALKWAY				630,000	35 \$/SF
154							
155		Solar Panels					Under District Study - excluded
156							
157							
158	TBD	SOLAR PANELS					

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Masterplan Budget Plan September 30, 2019

LANDELS ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,232

		MENTARY SCHOOL - ESTIMATE DETAIL				GSF	
	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
2		Replace HVAC					
3		Replace IIVAC					
•		New HVAC allowance serving Bldg 2, 3, 4 and					
		5, assume new rooftop units, replace ductwork					
4		and diffusers as necessary, disconnect	21,363	SF	32.00	683,616	
		reconnect services and electrical					
5							
6							
7	1	REPLACE HVAC				683,616	32 \$/SF
8							
9		Fences And Gates - Ornamental					
10							
11		Demo existing	1	LS	2,000.00	2,000	
12		Ornamental fence	220	LF	200.00	44,000	8"ht
13 14		Gates	2	EA	5,000.00 20,000.00	10,000 20,000	pedestrian vehicular
15		Gates	11	EA	20,000.00	20,000	venicular
16							
17	1	FENCES AND GATES - ORNAMENTAL				76,000	
18	•						
19		Fences And Gates - Chain Link					
20							
21		Demo existing	1	LS	5,000.00	5,000	
22		Chain link fence	870	LF	75.00	65,250	8'ht
23		Gates	3	EA	3,500.00	10,500	pedestrian
24		Gates	1	EA	10,000.00	10,000	vehicular
25							
26							
27	1	FENCES AND GATES - CHAIN LINK				90,750	
28							
29		Pickup/Dropoff, Parking					
30							
31		Demolition of existing	47,000	SF	1.00	47,000	
32 33		Rough and fine grading, allow	47,000	SF	0.50	23,500	90%
34		New hardscape - assume concrete	42,300	SF	16.00 110,000.00	676,800	90%
35		Allow for curbs, striping, signage Softscape - allow for minimal trees/shrubs	1 4,700	LS SF	15.00	110,000 70,500	10%
36		Drainage	47,000	SF	2.50	117,500	10 %
37		Irrigation	4,700	SF	3.00	14,100	
38		Lighting	47,000	SF	3.00	141,000	
39		Lighting	41,000	- 01	0.00	141,000	
40							
41	1	PICKUP/DROPOFF, PARKING				1,200,400	26 \$/SF
42							
43		Collaborative Instructional Spaces					
44		Domovo portitiona ta commendata for					
45		Remove partitions to accommodate for operable walls	108	LF	75.00	8,100	
46		operable walls Structural work allowance	1	LS	18.000.00	18.000	at dividing walls only
46		New operable walls	108	LF	1,800.00	194,400	at a riding walls only
+1		INOW Operable walls				134,400	as required at disturbed areas alor
48		Cut & patch interiors at renovated walls	108	LF	120.00	12,960	wall, excludes new classroom finishes
49		MEP reconfiguration allowance	21,363	SF	4.00	85,452	
50		New expansion for breakout spaces	3,600	SF	500.00	1,800,000	
51		· · ·					
52							
53	1	COLLABORATIVE INSTRUCTIONAL SPACES				2,118,912	85 \$/SF
54							
55		<u>Lighting</u>					
56							
		Install site lighting in parking and playground					
57		areas, front pickup/drop-off/parking, side	135,000	SF	1.50	202,500	for safety/security
		parking, playground					
58		Remove existing	135,000	SF	0.25	33,750	
59							

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

	IENTARY SCHOOL - ESTIMATE DETAIL				GSF	
FPRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1	LIGHTING				236,250	2 \$/SF
	Playground K					
	Demolish existing	2,700	SF	1.00	2.700	
	Rough and fine grading, allow	2,700	SF	0.50	1,350	
	Tot turf	2,700	SF	18.00	48,600	
	Drainage	2,700	SF	2.50	6,750	
	Irrigation	2,700	SF	3.00	8,100	
	Lighting	2,700	SF LS	3.00 50,000.00	8,100	
	Play equipment allowance Miscellaneous benches, furnishings etc	1 2,700	SF	3.00	50,000 8,100	
	Miscellaneous benches, furnishings etc	2,700	- OI	3.00	0,100	
1	PLAYGROUND K				133,700	50 \$/SF
	New Ashpalt Overlay					
	Demolish existing	58,300	SF	1.00	58,300	
	Asphalt overlay of existing playground	58,300	SF	4.50	262,350	
	(pedestrian use)					
1	NEW ASHPALT OVERLAY				320,650	6 \$/SF
	Admin/Extended Care Firm-re-					
	Admin/Extended Care Expansion					
	New building allowance	2,700	SF	550.00	1,485,000	
	Trom ballating allottando	2,100	Ů.	000.00	1, 100,000	
1	ADMIN/EXTENDED CARE EXPANSION				1,485,000	550 \$/SF
<u>:</u>	Shade Structure					
· I	New steel frame, open-sided shade structure	4.500	0.5	405.00	500 500	
	with a solid roof	4,500	SF	125.00	562,500	no new paving assumed
					562,500	125 \$/SF
1						
1	SHADE STRUCTURE					
	Utility Survey					
1 3 0	Utility Survey					
)	Utility Survey Condition Survey of underground utility lines				50.000	
)	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sever,	280,000	SF	0.20	56,000	
	Utility Survey Condition Survey of underground utility lines	280,000	SF	0.20	56,000	
	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sever,	280,000	SF	0.20	56,000	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data)	280,000	SF	0.20		
2 3 4 2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sever,	280,000	SF	0.20	56,000 56,000	
2 3 4 2 5	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data) UTILITY SURVEY	280,000	SF	0.20		
1 2 3	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data)	280,000	SF	0.20		
2 3 4 2 5 5 5	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks	280,000	SF	0.20		
2 3 4 2 5 5	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bidgs 1,3, 4,5,6 and MUR,				56,000	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bidgs 1,3, 4,5,6 and MUR, reuse existing raceways as necessary, replace	280,000	SF	0.20		
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bidgs 1,3, 4,5,6 and MUR,				56,000	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bldgs 1,3, 4,5 6 and MUR, reuse existing raceways as necessary, replace if needed				56,000 42,375	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bidgs 1,3, 4,5,6 and MUR, reuse existing raceways as necessary, replace				56,000	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bldgs 1,3, 4,5,6 and MUR, reuse existing raceways as necessary, replace if needed TECHNOLOGY UPGRADE				56,000 42,375	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bldg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bldgs 1,3, 4,5 6 and MUR, reuse existing raceways as necessary, replace if needed				56,000 42,375	
2	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sever, bldg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bldgs 1,3, 4,5,6 and MUR, reuse existing raceways as necessary, replace if needed TECHNOLOGY UPGRADE MUR Modernization Allow for miscellaneous demolitions, including	1,695	LF	25.00	56,000 42,375 42,375	assume minimal fequitized
2 2 3 3 4 2 5 5 5 7 7 8 8 9 9 9 9 9	Utility Survey Condition Survey of underground utility lines (gas, domestic water, sanitary sewer, bidg/stormwater drain, electrical, data) UTILITY SURVEY Technology Upgrade Replace fiber optic and copper cable networks from MDF bldg 1 to Bidgs 1,3, 4,56 and MUR, reuse existing raceways as necessary, replace if needed TECHNOLOGY UPGRADE MUR Modernization				56,000 42,375	assume minimal required



Masterplan Budget Plan September 30, 2019

LANDELS ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,232

DEE D	DIODE	V DESCRIPTION	QUANTITY	UoM	LINIT DATE	TOTAL	COMMENTS
KEF PI	RIURII	Y DESCRIPTION	QUANTITY	UOM	UNIT RATE	TOTAL	COMMENTS as required at disturbed areas a
118		Cut & patch interiors at renovated walls	130	LF	120.00	15,600	wall, excludes new classroom finishes
119		MEP allowance	6,288	SF	5.00	31,440	
120							
121							
122	2	MUR MODERNIZATION				369,072	59 \$/SF
123 124		Outdoor Landscaped Spaces					
125		Outdoor Landscaped Spaces					
126		Demolition	27,900	SF	1.00	27,900	
127		Rough and fine grading, allow	27,900	SF	0.50	13,950	
128		New hardscape	13,950	SF	35.00	488,250	50%
129		New softscape	13,950	SF	15.00	209,250	50%
130		Drainage	13,950	SF	2.50	34,875	
131		Irrigation	13,950	SF	3.00	41,850	
132		Allow for site furnishings - benches, seatwalls, tables etc)	27,900	SF	5.00	139,500	
133		Shade feature, allow	1	LS	150,000.00	150,000	allowance
134		Electric/data connections	27,900	SF	1.00	27,900	
135		Lighting	27,900	SF	2.00	55,800	
136							
137							
138	2	OUTDOOR LANDSCAPED SPACES				1,189,275	43 \$/SF
139							
140		Pedestrian Trail					
141		Demolish existing	6,500	SF	1.00	6.500	
143		Rough and fine grading, allow	6,500	SF	0.50	3,250	
144		Decomposed granite trail	6,500	SF	8.00	52,000	
145		Decomposed granite trail	0,000	OI	0.00	02,000	
146							
147	2	PEDESTRIAN TRAIL				61,750	10 \$/SF
148						•	
149		Drinking Fountain					
150							
151		Replace older drinking fountains with drinking	4	EA	5,000.00	20,000	
		stations	4	LA	3,000.00	20,000	
152							
153							
154	3	DRINKING FOUNTAIN				20,000	
155							
156		Roof Repair					
157							
158		Repair damaged membrane, pipe flashings/storm collars, gutters/drain assemblies - allow	28,944	SF	7.00	202,608	Not a roof replacement
159							
160							
161	3	ROOF REPAIR				202,608	7 \$/SF
162							
163		WINDOW REPLACEMENT					
164							
165		Replace existing glass windows with thermal	1	LS	1,300,000.00	1,300,000	remove and replace - allowance
		insulating glass			.,500,000.00	1,000,000	
166 167							
168	3	WINDOW REPLACEMENT				1,300,000	
169	J	WINDOW REFEACEWENT				1,300,000	
170		Utility Network Repairs					
171							
		Assume repair/replacement of 75% sanitary					
172		sewer lines, 50% of stormwater drain lines, 25% of domestic water lines, 25% gas lines.	280,000	SF	2.00	560,000	
173		or domestic victor intes, 25% gas intes.					

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California

175 3 UTILITY NETWORK REPAIRS

REF PRIORITY DESCRIPTION



Masterplan Budget Plan September 30, 2019

2 \$/SF

LANDELS ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,232 COMMENTS

560,000

118 Cut & patch interiors at renovated walls 130 LF 119 MEP allowance 6,288 SF 120 SF SF 121 VIDENTIFY VIDENTIFY 123 VIDENTIFY VIDENTIFY 124 Outdoor Landscaped Spaces VIDENTIFY 125 Demolition 27,900 SF 126 Demolition 27,900 SF 127 Rough and fine grading, allow 27,900 SF 128 New hardscape 13,950 SF 129 New softscape 13,950 SF	120.00 5.00	15,600 31,440 369,072	as required at disturbed areas alo wall, excludes new classroom finishes
120	5.00		
120			59 \$/SF
22 MUR MODERNIZATION 123 24 244 Outdoor Landscaped Spaces 25 25 28 Demolition 27,900 SF 27 Rough and fine grading, allow 27,900 SF New hardscape 13,950 SF		369,072	59 \$/SF
23		369,072	59 \$/SF
24 Outdoor Landscaped Spaces 25 5 26 Demolition 27,900 SF 27 Rough and fine grading, allow 27,900 SF 28 New hardscape 13,950 SF			
25 Demolition 27,900 SF 27 Rough and fine grading, allow 27,900 SF 28 New hardscape 13,950 SF			
26 Demolition 27,900 SF 27 Rough and fine grading, allow 27,900 SF 28 New hardscape 13,950 SF			
127 Rough and fine grading, allow 27,900 SF 128 New hardscape 13,950 SF	1.00	27,900	
128 New hardscape 13,950 SF	0.50	13,950	
	35.00	488,250	50%
129 New softscape 13,950 SF	15.00	209,250	50%
130 Drainage 13,950 SF	2.50	34,875	
131 Irrigation 13,950 SF	3.00	41,850	
Allow for site furnishings - benches, seatwalls, 27,900 SF	5.00	139,500	
tables etc)			
133 Shade feature, allow 1 LS	150,000.00	150,000	allowance
134 Electric/data connections 27,900 SF	1.00	27,900	
135 Lighting 27,900 SF	2.00	55,800	
136			
137			
138 2 OUTDOOR LANDSCAPED SPACES		1,189,275	43 \$/SF
139			
140 <u>Pedestrian Trail</u>			
141 142 Demolish existing 6,500 SF	1.00	6 500	
	0.50	6,500 3,250	
	8.00	52,000	
144 Decomposed granite trail 6,500 SF 145	0.00	52,000	
146			
147 2 PEDESTRIAN TRAIL		61,750	10 \$/SF
148		01,730	10 0/31
149 <u>Drinking Fountain</u>			
150			
Replace older drinking fountains with drinking 4 EA	5,000.00	20,000	
stations 4 EA	5,000.00	20,000	
152			
153			
154 3 DRINKING FOUNTAIN		20,000	
155			
156 Roof Repair			
157			
Repair damaged membrane, pipe 158 flashings/storm collars, gutters/drain assemblies 28,944 SF	7.00	202,608	Not a roof replacement
- allow 159			
160			
161 3 ROOF REPAIR		202,608	7 \$/SF
162			
163 <u>WINDOW REPLACEMENT</u>			
164			
Penlace existing glass windows with thermal			
165 insulating glass	1,300,000.00	1,300,000	remove and replace - allowance
166			
167			
168 3 WINDOW REPLACEMENT		1,300,000	
169			
170 <u>Utility Network Repairs</u>			
171			

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LANDELS ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,232

REF	PRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
176							
177		Restroom Modernization					
178							
179		Remove and replace wall finishes	2,365	SF	25.00	59,125	
180		Remove and replace ceiling finishes	1,620	SF	30.00	48,600	
181		Fixtures, walls tiles and partitions					No work required
182		Misc. MEP rework/reconfiguration					No work required
183							
184							
185	3	RESTROOM MODERNIZATION				107,725	66 \$/SF
186							
187		Covered Walkway					
188							
189		Repair/reroof 50% of covered area as needed	13,800	SF	35.00	483,000	no work to walkway required
190							
191							
192	4	COVERED WALKWAY				483,000	
193							
194		Solar Panels					Under District Study - excluded
195							
196							·
197	TBD	SOLAR PANELS					

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

EF P	RIOR <u>IT</u>	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1							
2		Replace HVAC					
3		New HVAC allowance serving Bldg H, J, K, L,					
		N, P, assume new rooftop units, replace					
4		ductwork and diffusers as necessary,	24,956	SF	32.00	798,592	
		disconnect reconnect services and electrical					
5							
6							
7	1	REPLACE HVAC				798,592	32 \$/SF
8							
9		Fences And Gates - Ornamental					
10							
11		Demo existing	1	LS	4,000.00	4,000	
12		Ornamental fence	630	LF	200.00	126,000	8'ht
13		Gates	4	EA	5,000.00	20,000	pedestrian
14		Gates	2	EA	20,000.00	40,000	vehicular
15							
16							
17	1	FENCES AND GATES - ORNAMENTAL				190,000	
18							
19		Modernize Admin Building					
20							
		Renovate within existing footprint, reconfigure					
21		walls/rooms, new FF&E, redo all bldg systems	4,080	SF	275.00	1,122,000	
		(HVAC, electrical/lighting, plumbing, security)					
22							
23							
24	1	MODERNIZE ADMIN BUILDING				1,122,000	275 \$/SF
25							
26		Shade Structure					
27							
28		New steel frame, open-sided shade structure	4,500	SF	125.00	562,500	no new paving assumed
		with a solid roof	1,000		120.00	002,000	
29							
30							
31	1	SHADE STRUCTURE				562,500	125 \$/SF
32							
33		Roof Repair					
34		Barbara Indiana and American American					
35		Replace built-up roofing, repair/replace roof	24,956	SF	35.00	873,460	
36		membranes, flashings/collars, gutters/drains					
37							
38	2	ROOF REPAIR				873,460	35 \$/SF
	2	ROOF REPAIR				013,400	30 3/35
39		Heilibe Current					
40 41		Utility Survey					
41		Candition Convey of underground utility it-					
42		Condition Survey of underground utility lines (gas, domestic water, sanitary sewer,	212,000	SF	0.20	42,400	
		bldg/stormwater drain, electrical, data)	212,000	Oi	0.20	42,400	
43		==g-stammator aran, orosaroa, adia)					
44							
45	2	UTILITY SURVEY				42,400	
46	_	J.L. TORVET				72,700	
46 47		Technology Upgrade					
47 48		recimology opgrade					
-10		Replace fiber optic and copper cable networks					
		from MDF bldg N to Bldgs H, J, K, L, M, P,					
			1.450	LF	25.00	36,250	
49		reuse existing raceways as necessary replace					
49		reuse existing raceways as necessary, replace if needed					
49 50							

36,250

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TECHNOLOGY UPGRADE

52



Masterplan Budget Plan September 30, 2019

REF PI	RIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
53	KIOKII	I DESCRIPTION	QUANTITI	COM	ONITIVATE	TOTAL	COMMENTS
54		Outdoor Learning Classroom					
55							
56		Demolition	29,600	SF	1.00	29,600	
57		Rough and fine grading, allow	29,600	SF	0.50	14,800	
58		New hardscape	14,800	SF	35.00	518,000	50%
59		Newsoftscape	14,800	SF	15.00	222,000	50%
60		Drainage Irrigation	29,600 14,800	SF SF	2.50 3.00	74,000 44,400	
		Allow for site furnishings - benches, seatwalls,					
62		tables etc)	29,600	SF	5.00	148,000	
63		Shade feature, allow	1	LS	150,000.00	150,000	allowance
64		Electric/data connections	29,600	SF	1.00	29,600	
65		Lighting	29,600	SF	2.00	59,200	
66							
67							
68	2	OUTDOOR LEARNING CLASSROOM				1,289,600	44 \$/SF
69							
70 71		<u>Drinking Fountains</u>					
		Replace older drinking fountains with drinking					
72		stations	4	EA	5,000.00	20,000	
73							
74							
75	2	DRINKING FOUNTAINS				20,000	
76							
77		WINDOW REPLACEMENT					
78							
79		Replace existing glass windows with thermal	1	LS	1,120,000.00	1,120,000	
		insulating glass		LO	1,120,000.00	1,120,000	
80							
81							
82	3	WINDOW REPLACEMENT				1,120,000	
83							
84		FENCES AND GATES ORNAMENTAL					
85 86		Dome ovieting	1	LS	3,000.00	3,000	
87		Demo existing Ornamental fence	600	LF	200.00	120,000	8"ht
88		Gates	6	EA	5,000.00	30,000	pedestrian
89		Sales	· ·		0,000.00	00,000	
90							
91	3	FENCES AND GATES ORNAMENTAL				153,000	
92							
93		Collaborative Instructional Spaces					
94							
95		Remove partitions to accommodate for	96	LF	75.00	7,200	
		operable walls, including hazmat allowance					
96		Structural work allowance	1 00	LS	15,000.00	15,000	at dividing walls only
97		New operable walls	96	LF	1,800.00	172,800	as required at disturbed areas along
98		Cut & patch interiors at renovated walls	96	LF	120.00	11,520	wall, excludes new classroom
			40.000	05	4.00	75 440	finishes
99 100		MEP reconfiguration allowance New expansion for breakout spaces	18,860 3,200	SF SF	4.00 500.00	75,440 1,600,000	
100		recw expansion for preakout spaces	5,200	GF.	300.00	1,000,000	
102							
	3	COLLABORATIVE INSTRUCTIONAL SPACES				1,881,960	85 \$/SF
103		STEE STATISE INCINCOMONAL GRACES				1,001,000	55 4,5
103 104 105		Utility Network Repairs					
104 105		Utility Network Repairs					
104							
104 105		Utility Network Repairs Assume repair/replacement of 75% sanitary sewer lines, 50% of stormwater drain lines, 25%	212,000	SF	2.00	424,000	
104 105 106		Assume repair/replacement of 75% sanitary	212,000	SF	2.00	424,000	
104 105 106 107		Assume repair/replacement of 75% sanitary sewer lines, 50% of stormwater drain lines, 25%	212,000	SF	2.00	424,000	
104 105 106	3	Assume repair/replacement of 75% sanitary sewer lines, 50% of stormwater drain lines, 25%	212,000	SF	2.00	424,000 424,000	2 SISF

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Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

	DIODIT	/ DECORIDEDA	OHANTITY		LINUT DATE	TOTAL	COMMENTO
	KIUKIT	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
111							
112		Restroom Modernization					
113							
114		Remove and replace wall finishes	2,500	SF	25.00	62,500	
115		Remove and replace ceiling finishes	1,360	SF	30.00	40,800	
116		Fixtures, walls tiles and partitions					No work required
117		Misc. MEP rework/reconfiguration					No work required
118							
119							
120	3	RESTROOM MODERNIZATION				103,300	76 \$/SF
121							
122		Covered Walkway					
123							
124		Repair/reroof 50% of covered area as needed	9,500	SF	35.00	332,500	no work to walkway required
125							
126							
127	4	COVERED WALKWAY				332,500	35 \$/SF
128							
129		Solar Panels					Under District Study - excluded
130							
130 131							



Masterplan Budget Plan September 30, 2019

CASTRO ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 35,804

FF DB	IODIT	V DESCRIPTION -	OHANTIEV	I I = M	LIMIT DATE	TOTAL	COMMENTO
	IORIT'	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
2		Admin Support Services					
3		Aumini Support Services					
4		New building allowance	2,700	SF	550.00	1,485,000	
5		The transmission of the tr	=,,			.,,	
6							
7	1	ADMIN SUPPORT SERVICES				1,485,000	550 \$/SF
8						1,100,000	
9		Storage					
10		<u>Storage</u>					
11		New building allowance	1,300	SF	275.00	357,500	
12							
13							
14	1	STORAGE				357,500	275 \$/SF
15							
16		Fences And Gates - Chain Link					
17		-					
18		Demo existing	1	LS	2,500.00	2,500	
19		Chain link fence	500	LF	75.00	37,500	
20		Gates	2	EA	3,500.00	7,000	pedestrian
21		Gates	1	EA	10,000.00	10,000	vehicular
22							
23		EENOES AND SATES SHARLING				F7 000	
24	1	FENCES AND GATES - CHAIN LINK				57,000	
25							
26		Staff Parking					
27		Danie district	0.000	05	4.00	0.000	
28 29		Demo existing Rough and fine grade	6,300 6,300	SF SF	1.00 0.50	6,300 3,150	
30		New asphalt paving	6,300	SF	5.00	31,500	
31		Striping, curbs, wheel stops, signage	1	LS	8,000.00	8,000	
32		Lighting	6,300	SF	3.00	18,900	
33		Security	6,300	SF	1.00	6,300	
34							
35							
36	2	STAFF PARKING				74,150	12 \$/SF
37							
38		Library Modernization/Expansion					
39							
40		New library expansion	780	SF	550.00	429,000	
41 42							
	_					100.000	
13	2	LIBRARY MODERNIZATION/EXPANSION				429,000	550 \$/SF
14							
45		Fences And Gates - Ornamental					
46 47		Demo existing	1	LS	900.00	900	
48		Ornamental fence	180	LS	200.00	36,000	8'ht
49		Gates	3	EA	5.000.00	15,000	pedestrian
50			-		0,000.00	,	- ·
51							
52	3	FENCES AND GATES - ORNAMENTAL				51,900	
53						,	
54		Shade Structure					
55							
		New steel frame, open-sided shade structure	4.500	05	405.00	E00 E00	
56		with a solid roof	4,500	SF	125.00	562,500	no new paving assumed
57							
58	_						

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

CASTRO ELEMENTARY SCHOOL - ESTIMATE DETAIL

CAS	TRO ELEM	ENTARY SCHOOL - ESTIMATE DETAIL	GSF : 35,804				
REF	PRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
60							
61		Covered Walkways					
62							
63		New canopy over upper level walkways	5,200	SF	65.00	338,000	at 2nd level walkways
64		Columns to ground, including footings	30	EA	9,600.00	288,000	allowance
65							
66							
67	3	COVERED WALKWAYS				626,000	120 \$/SF

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Masterplan Budget Plan September 30, 2019

MONTA LOMA ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 40,379

1 2 3 4		Y DESCRIPTION Replace HVAC	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
3		Replace HVAC					
4							
		New HVAC allowance serving Bldg A, B, C, D,					
		F, G, H, L, M, N, P, assume new rooftop units,	26,883	SF	32.00	860,256	
5		replace ductwork and diffusers as necessary,	20,000	31	32.00	000,230	
5		disconnect reconnect services and electrical					
6							
7	1	REPLACE HVAC				860,256	32 \$/SF
8							
9		Fences And Gates - Chain Link					
10		T COLOR OF THE CALL OF THE CAL					
11		Demo existing	1	LS	8.000.00	8.000	
12		Chain link fence	1,560	LF	75.00	117,000	
13		Gates	4	EA	3,500.00	14,000	pedestrian
14					-,	. ,,	
15							
16	1	FENCES AND GATES - CHAIN LINK				139,000	
		TENOLO AND GATES - CHAIN LINK				133,000	
17		Callabarativa Casasa At Library					
18		Collaborative Spaces At Library					
19		Duilding renovation allowance ren					
		Building renovation allowance - renovate					
20		existing computer lab, install maker	4,821	SF	315.00	1,518,615	
		lab/workroom utility services (plumbing,					
21		electrical, ventilation)					
22		OOL A DODATNE OD A COLOR				4 54	
23	1	COLLABORATIVE SPACES AT LIBRARY				1,518,615	315 \$/SF
24			·				·
25		Playground K					
26							
27		Demolish existing	2,600	SF	1.00	2,600	
28		Rough and fine grading, allow	2,600	SF	0.50	1,300	
29		Tot turf	2,600	SF	18.00	46,800	
30		Drainage	2,600	SF	2.50	6,500	
31		Irrigation	2,600	SF	3.00	7,800	
32		Lighting	2,600	SF	3.00	7,800	
33		Play equipment allowance	1	LS	50,000.00	50,000	
34		Miscellaneous benches, furnishings etc	2,600	SF	3.00	7,800	
35							
36							
37	1	PLAYGROUND K				130,600	50 \$/SF
38							
39		Playground Modernization					
40							
41		Demolish existing	92,000	SF	1.00	92.000	
42		Rough and fine grading, allow	92,000	SF	0.50	46,000	
43		Tot turf	92,000	SF	18.00	1,656,000	
44		Reconfigure stormwater drainage	92,000	SF	2.50	230,000	
45		Irrigation	92,000	SF	3.00	276,000	
46		Lighting	92,000	SF	1.00	92,000	
47		Play equipment allowance	3	LOC	50,000.00	150,000	
48		Miscellaneous benches, furnishings etc	92,000	SF	3.00	276,000	
49			,			,	
50							
51	1	PLAYGROUND MODERNIZATION				2,818,000	31 \$/SF
		LA TOROUND MODERNIZATION				2,010,000	J1 (7)31
52		Charle Charleton					
53		Shade Structure					
54		Named at facility and a standard about 1 1					
55		New steel frame, open-sided shade structure	4,500	SF	125.00	562,500	no new paving assumed
		with a solid roof					
56							
57 58	1	SHADE STRUCTURE				562,500	125 \$/SF

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

FΡ	RIORLI	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
•		Admin Support Services	20,11111		0.11.1.0.1.2		001111111111111111111111111111111111111
1							
2		New building allowance	1,140	SF	550.00	627,000	
33							
64							
35	1	ADMIN SUPPORT SERVICES				627,000	550 \$/SF
36							
37		Utility Survey					
38		ounty oursey					
		Condition Survey of underground utility lines					
39		(gas, domestic water, sanitary sewer,	215,000	SF	0.20	43,000	
		bldg/stormwater drain, electrical, data)					
70		*					
71							
72	1	UTILITY SURVEY				43,000	
73						,	
74		Plumbing Repairs					
75		- Inches of the Paris					
		Repair campus sanitary sewer lines & bldg.					
		drain lines. Assume repair/replacement of	0.15.005				
76		100% sanitary sewer lines, 50% of stormwater	215,000	SF	5.00	1,075,000	
		drain lines, 25% of domestic water lines					
77		·					
78							
79	1	PLUMBING REPAIRS				1,075,000	5 \$/SF
30							
31		Technology Upgrade					
32		realmoider operade					
		Replace fiber optic and copper cable networks					
		from MDF bldg E to Bldgs A-D, F-H, K-N, P,					
33		reuse existing raceways as necessary, replace	1,220	LF	25.00	30,500	
		if needed, add interior cabling to WAP's and					
		TV's with classrooms (24)					
34							
35							
36	2	TECHNOLOGY UPGRADE				30,500	
37							
38		Outdoor Learning Classroom					
39							
90		Demolition	24,700	SF	1.00	24,700	
91		Rough and fine grading, allow	24,700	SF	0.50	12,350	
92		New hardscape	12,350	SF	35.00	432,250	50%
93		New softscape	12,350	SF	15.00	185,250	50%
94		Drainage	24,700	SF	2.50	61,750	
95		Irrigation	12,350	SF	3.00	37,050	
96		Allow for site furnishings - benches, seatwalls,	24,700	SF	5.00	123,500	
		tables etc)					
97		Shade feature, allow	1	LS	150,000.00	150,000	allowance
98		Electric/data connections	24,700	SF	1.00	24,700	
99		Lighting	24,700	SF	2.00	49,400	
00							
01							
02	2	OUTDOOR LEARNING CLASSROOM				1,100,950	45 \$/SF
03							
04		Staff Parking					
05							
06		Demo existing	17,000	SF	1.00	17,000	
07		Rough and fine grade	17,000	SF	0.50	8,500	
80		New asphalt paving	17,000	SF	5.00	85,000	
09		Striping, curbs, wheel stops, signage	1	LS	20,000.00	20,000	
		Lighting	17,000	SF	3.00	51,000	
10							
10 11 12		Security	17,000	SF	1.00	17,000	

198,500

12 \$/SF

2 STAFF PARKING



Masterplan Budget Plan September 30, 2019

MONTA LOMA ELEMENTARY SCHOOL - ESTIMATE DETAIL

		ELEMENTARY SCHOOL - ESTIMATE DETAIL	OHANITITY	11-16	LINIT DATE		: 40,379
	PRIORIT	TY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
115							
116		Collaborative Instructional Spaces					
117							
118		Remove partitions to accommodate for	120	LF	75.00	9,000	
110		operable walls, including hazmat allowance	120	LI	75.00	3,000	
119		Structural work allowance	1	LS	15,000.00	15,000	at dividing walls only
120		New operable walls	120	LF	1,800.00	216,000	
							as required at disturbed areas alor
121		Cut & patch interiors at renovated walls	120	LF	120.00	14,400	wall, excludes new classroom
							finishes
122		MEP reconfiguration allowance	14,797	SF	4.00	59,188	
123							
124							
125	2	COLLABORATIVE INSTRUCTIONAL SPACES				313,588	21 \$/SF
126						,	
		Fanana And Catan Community					
127		Fences And Gates - Oranmental					
128							
129		Demo existing	1	LS	2,000.00	2,000	
130		Ornamental fence	285	LF	200.00	57,000	8"ht
131		Gates	2	EA	5,000.00	10,000	pedestrian
132							
133							
34	2	FENCES AND GATES - ORANMENTAL				69,000	
		TENCES AND GATES - ORANMENTAL				05,000	
135							
136		Restroom Modernization					
137							
138		Demolition	640	SF	10.00	6,400	
39		Floor finishes	640	SF	18.00	11,520	
40		Wall finishes	1,215	SF	20.00	24,300	
141		Ceiling finishes	640	SF	25.00	16,000	
42		Toilet accessories	4	EA	1,500.00	6,000	
		Restroom modernization/expansion, add gender					
143		neutral, single-occupancy restrooms (4), 620SF	4	EA	15,000.00	60,000	
		neutral, single-occupancy restrooms (4), 6203F					
144							
146	3	RESTROOM MODERNIZATION				124,220	194 \$/SF
147							
148		CLASSROOM STORAGE EXPANSION					
149							
150		New storage systems in classrooms	720	SF	25.00	18.000	
151			720	SF	5.00	3,600	
		Reconfigure lighting/power as necessary	720	SF.			
152		Reconfigure lighting/power as necessary	720	5F			
152 153			720	5F		-	
152 153	3	CLASSROOM STORAGE EXPANSION	720	SF.		21,600	
152 153 154	3		720	SF		-	
52 53 54 55	3	CLASSROOM STORAGE EXPANSION	720	51		-	
152 153 154 155 156	3		720	5r		-	
52 53 54 55 56 57	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE				21,600	
52 53 54 55 56 57 58	3	CLASSROOM STORAGE EXPANSION	1,500	SF	200.00	-	
152 153 154 155 156 157 158	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE				21,600	
52 53 54 55 56 57 58 59	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE				21,600	
52 53 54 55 56 57 58 59	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE				21,600	200 \$/SF
152 153 154 155 156 157 158 159 160		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space				21,600 300,000	200 \$/SF
52 53 54 55 56 57 58 59 60 61		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE				21,600 300,000	200 \$/SF
152 153 154 155 156 157 158 159 160 161		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space				21,600 300,000	200 \$1SF
152 153 154 155 156 157 158 159 160 161		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT				21,600 300,000	200 \$/SF
52 53 54 55 56 57 58 59 60 61 62 63 64		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal			200.00	21,600 300,000 300,000	200 \$/SF
52 53 54 55 56 57 58 59 60 61 62 63 64		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT	1,500	SF		21,600 300,000	
52		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal	1,500	SF	200.00	21,600 300,000 300,000	
52		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal	1,500	SF	200.00	21,600 300,000 300,000	
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
152 153 155 155 155 155 157 158 159 160 161 162 163 164 165 166 165 166		CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal	1,500	SF	200.00	21,600 300,000 300,000	
152 153 154 155 155 156 157 158 159 160 161 162 163 164 165 166 167 168	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
152 153 154 155 155 156 157 158 160 161 162 163 164 165 166 167 168	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
152 153 155 155 155 155 157 158 159 160 161 162 163 164 165 166 165 166	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT Utility Network Repairs	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
152 153 154 155 155 156 157 158 160 161 162 163 164 165 166 167 168	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
152 153 154 155 155 156 157 158 160 161 162 163 164 165 166 167 168	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT Utility Network Repairs	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT Utility Network Repairs Assume repair/replacement of 25% of utility	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT Utility Network Repairs Assume repair/replacement of 25% of utility systems not covered under plumbing repairs	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	3	CLASSROOM STORAGE EXPANSION SPED SENSORY SPACE Renovate space in Bldg. P for sensory space SPED SENSORY SPACE WINDOW REPLACEMENT Replace existing glass windows with thermal insulating glass WINDOW REPLACEMENT Utility Network Repairs Assume repair/replacement of 25% of utility systems not covered under plumbing repairs	1,500	SF	200.00	21,600 300,000 300,000 1,500,000	

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TBD SOLAR PANELS

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MONTA LOMA ELEMENTARY SCHOOL - ESTIMATE DETAIL

MON	TA LOMA E	GSF	: 40,379				
REF	PRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
175	3	UTILITY NETWORK REPAIRS				161,250	1 \$/SF
176							-
177		Covered Walkway					
178							
179		Repair/reroof 50% of covered area as needed	3,800	SF	35.00	133,000	no work to walkway required
180							
181							
182	4	COVERED WALKWAY				133,000	35 \$/SF
183							
184		Solar Panels					Under District Study - excluded
185							



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STEVENSON ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 32,079

		LEMENTARY SCHOOL - ESTIMATE DETAIL				GSF	
	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
2		Fences And Gates - Ornamental					
3		rences And Gates - Offiamental					
4		Demo existing	1	LS	1,500.00	1,500	
5		Ornamental fence	200	LF	200.00	40,000	8°ht
6		Gates	2	EA	5,000.00	10,000	pedestrian
7							
8							
9	1	FENCES AND GATES - ORNAMENTAL				51,500	
10							
11		Shade Structure					
12							
13		New steel frame, open-sided shade structure	4,500	SF	125.00	562,500	no new paving assumed
14		with a solid roof					
15							
		OUADE OTDUOTUDE				F00 F00	
16	1	SHADE STRUCTURE				562,500	125 \$/SF
17							
18		Outdoor Landscaped Areas					
19		D126	47 500	0.5	4.00	47 500	
20 21		Demolition	47,500 47,500	SF SF	1.00 0.50	47,500 23,750	
21 22		Rough and fine grading, allow	47,500 33,250	SF	35.00	23,750 1,163,750	70%
22		New hardscape New softscape	14,250	SF	15.00	213,750	30%
24		Drainage	47,500	SF	2.50	118,750	30 %
25		Irrigation	14,250	SF	3.00	42,750	
		Allow for site furnishings - benches, seatwalls,					
26		tables etc)	47,500	SF	5.00	237,500	
27		Shade feature, allow	1	LS	150,000.00	150,000	allowance
28		Electric/data connections	47,500	SF	1.00	47,500	
29		Lighting	47,500	SF	2.00	95,000	
30		Potable water/bib	47,500	SF	1.00	47,500	
31							
32							
33	1	OUTDOOR LANDSCAPED AREAS				2,187,750	46 \$/SF
34							
35		Technology Upgrade					
36							
		Replace IDF cabinet in library with larger			05.000.00	05.000	
37		cabinet. Install Front Row conductor for PA	1	LS	25,000.00	25,000	
38		system.					
39							
40	2	TECHNOLOGY UPGRADE				25,000	
41							
42		Storage Expansion					
43							
44		New storage building	1,800	SF	275.00	495,000	
45							
46							
47	2	STORAGE EXPANSION				495,000	275 \$/SF
48						,	
49		MUR Modernization/A-V Upgrade					
50							
51		Add shade devices to SW/SE windows	1	LS	3,500.00	3,500	
		Upgrade A-V systems with fixed production-					
			1	LS	75,000.00	75,000	
		oriented systems					
52 53		oriented systems					
52 53		oriented systems					
52 53 54	3	oriented systems MUR MODERNIZATION/A-V UPGRADE				78,500	
52 53 54 55	3	, 				78,500	
52 53 54	3	MUR MODERNIZATION/A-V UPGRADE				78,500	Under District Study - excluded
52 53 54 55 56	3	, 				78,500	Under District Study - excluded
52 53 54 55 56 57	3	MUR MODERNIZATION/A-V UPGRADE				78,500	Under District Study - excluded

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UTILITY SURVEY



Masterplan Budget Plan September 30, 2019

THEUERKAUF ELEMENTARY SCHOOL - ESTIMATE DETAIL GSF: 37,969 REF PRIORITY DESCRIPTION Replace HVAC New HVAC units in 5 single-story classroom buildings and 1 library. Replace Existing HVAC 30,608 SF 32.00 979,456 Systems, (6) Bldgs. (Nos. C, D, E, F, G, H) REPLACE HVAC 979,456 32 \$/SF Playground K 10 Demolish existing 9,300 1.00 9,300 Rough and fine grading, allow 9,300 0.50 4,650 Tot turf 6,510 SF 18.00 117,180 70% Hardscape 2,790 25.00 69,750 30% Drainage 9,300 SF 2.50 23.250 SF SF Irrigation 6 510 3 00 19,530 9,300 3 00 27,900 Lighting 18 Play equipment allowance LS 50,000.00 50,000 Miscellaneous benches, furnishings etc 9,300 LS 3.00 27,900 22 1 PLAYGROUND K 349,460 38 \$/SF Landscape - Courtyards Demolition 14,250 1.00 14,250 Rough and fine grading, allow 14,250 0.50 7,125 SF SF 349.125 70% New hardscape 9.975 35 00 15.00 New softscape 4.275 64.125 Drainage 4,275 2.50 10,688 30 Irrigation 4,275 3.00 12,825 Allow for site furnishings - benches, seatwalls, 32 SF 5.00 14,250 71,250 tables etc) Shade feature, allow LS 150,000.00 150,000 allowance Electric/data connections 14 250 1.00 14,250 14,250 2.00 Lighting 28,500 36 38 LANDSCAPE - COURTYARDS 722,138 51 \$/SF 39 Shade Structure 40 New steel frame, open-sided shade structure 42 4.500 SF 125.00 562,500 no new paving assumed with a solid roof 44 45 SHADE STRUCTURE 562,500 125 \$/SF **Utility Survey** Condition survey for underground utility lines 49 240.000 SF 0.20 48.000 (water, sanitary sewer, stormwater drain, gas, electrical/data conduits)

48.000

0 \$/SF



Masterplan Budget Plan September 30, 2019

THEUERKAUF ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 37,969

	RIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
53 54		Plumbing Repairs					
55		Tumbing Repairs					
		Repair campus sanitary sewer lines & bldg. drain lines. Assume repair/replacement of					
56		100% sanitary sewer lines, 50% of stormwater drain lines, 25% of domestic water lines. See utility survey area.	240,000	SF	5.00	1,200,000	
57		unity survey area.					
58							
59	1	PLUMBING REPAIRS				1,200,000	5 \$/SF
60 61		Pickup/Dropoff, Parking					
62		FICKUP/DTOPOIT, FAIKING					
63		Demolition of existing	49,700	SF	1.00	49,700	
64		Rough and fine grading, allow	49,700	SF	0.50	24,850	
65		New hardscape - concrete/asphalt	44,730	SF	12.00	536,760	90%
66		Allow for curbs, striping, signage	1	LS	115,000.00	115,000	
67		Softscape - allow for minimal trees/shrubs	4,970	SF	15.00	74,550	10%
68		Drainage	49,700	SF	2.50	124,250	
69		Irrigation	4,970	SF	3.00	14,910	
70		Lighting	49,700	SF	2.00	99,400	
71							
72		DISKURDED SEEF BARKER				1 000 10-	
73	1	PICKUP/DROPOFF, PARKING				1,039,420	21 \$/SF
74 75		Fences And Gates - Ornamental					
76		rences And Gates - Ornamental					
77		Demo existing	1	LS	6,000.00	6,000	
78		Ornamental fence	1,100	LF	200.00	220,000	8'ht
79		Gates	4	EA	5,000.00	20,000	pedestrian
80					-,		
81							
82	2	FENCES AND GATES - ORNAMENTAL				246,000	
83							
84		Library Modernization					
85							
86		Interior renovation allowance - renovate entire library with new FF&E, including HVAC, lighting	4,793	SF	325.00	1,557,725	
87		,					
88							
89	2	LIBRARY MODERNIZATION				1,557,725	325 \$/SF
90							
91		Technology Upgrade					
92		Create collaborative classroom spaces with					
		lab/workroom type instructional spaces, Bldgs.					
93		C, D, E, G. Modernize/refurbish Gr 1-5	24,515	SF	3.00	73,545	
		classrooms (17)	27,010	01	5.50	, 0,040	
		Exclude Prek-K & portable classrooms.					
94		,					
95							
96	2	TECHNOLOGY UPGRADE				73,545	
97							
98		Classroom Modernization					
99							
		Modernize classroom spaces - create					
100		lab/workroom-type instructional spaces,	24,515	SF	160.00	3,922,400	
		Introduce transparent, operable partitions between classrooms and with exteriors					
101		between classioonis and with exteriors					
102							
103	2	CLASSROOM MODERNIZATION				3,922,400	160 \$/SF

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	PIOPIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
REF F	KIOKII	T DESCRIPTION	QUANTITY	OOM	UNITRATE	TOTAL	COMMENTS
105		Building Structural Upgrade					
106							
107		Allowance for shear and structural supports	1,300	SF	50.00	65,000	
108							
109							
110	2	BUILDING STRUCTURAL UPGRADE				65,000	50 \$/SF
111							
112		Playground 1-5					
113							
114		Demolish existing	2,600	SF	1.00	2,600	
115		Rough and fine grading, allow	2,600	SF	0.50	1,300	
116		Tot turf	2,600	SF	18.00	46,800	
117		Drainage	2,600	SF	2.50	6,500	
118		Irrigation	2,600	SF	3.00	7,800	
119		Lighting	2,600	SF	3.00	7,800	
120 121		Play equipment allowance Miscellaneous benches, furnishings etc	1 2,600	LS LS	50,000.00 3.00	50,000 7,800	
122		Miscellatieous periciles, lutristilings etc	2,000	LO	3.00	7,000	
123							
124	3	PLAYGROUND 1-5				130,600	50 \$/SF
	J	I LATOROUND 1-0				130,000	00 \$/SF
125		Landacana Campus Frantaga					
126 127		Landscape - Campus Frontage					
128		Demolish existing	28,000	SF	1.00	28,000	
129		Rough and fine grading, allow	11,200	SF	0.50	5,600	
130		Hardscape	16,800	SF	35.00	588,000	60%
131		Landscape	11,200	SF	15.00	168,000	40%
132		Drainage	11,200	SF	2.25	25,200	
133		Irrigation	11,200	SF	1.50	16,800	
134		Lighting	28,000	SF	3.00	84,000	
135		Misc site amenities	28,000	SF	3.00	84,000	
136							
137							
138	3	LANDSCAPE - CAMPUS FRONTAGE				999,600	36 \$/SF
139							
140		WINDOW REPLACEMENT					
141							
142		Replace existing glass windows with thermal	1	LS	1,515,000.00	1,515,000	remove and replace - allowance
		insulating glass			. ,		·
143 144							
	_						
145	3	WINDOW REPLACEMENT				1,515,000	
146							
147		Roof Repair					
148							
		Repair damaged membrane, pipe	22.750	0.5	7.00	226 200	Made a series and
		flashings/storm collars, gutters/drain assemblies - allow	33,758	SF	7.00	236,306	Not a roof replacement
149		- allow					
150							
150 151	2	POOF PERAIR				226 206	7 \$ (0.0
150 151 152	3	ROOF REPAIR				236,306	7 \$/SF
150 151 152 153	3					236,306	7 \$/SF
150 151 152 153 154	3	ROOF REPAIR Utility Network Repairs				236,306	7 \$/SF
150 151 152 153	3	Utility Network Repairs				236,306	7 \$/SF
150 151 152 153 154 155	3	Utility Network Repairs Assume repair/replacement of 25% of utility	240 000	ŞE	2.00		7 \$/SF
152 153 154	3	Utility Network Repairs Assume repair/replacement of 25% of utility systems not covered under plumbing repairs	240,000	SF	2.00	236,306 480,000	7 \$/SF
150 151 152 153 154 155 156	3	Utility Network Repairs Assume repair/replacement of 25% of utility	240,000	SF	2.00		7 \$/SF
150 151 152 153 154 155	3	Utility Network Repairs Assume repair/replacement of 25% of utility systems not covered under plumbing repairs	240,000	SF	2.00		7 \$/SF



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THEUERKAUF ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 37,969

HEUE	EKKAUF	ELEMENTARY SCHOOL - ESTIMATE DETAIL				GSF	: 37,969
	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
160							
161		New Ashpalt Overlay					
162							
163		Demolish existing	38,000	SF	1.00	38,000	
164		Asphalt overlay of existing playground (pedestrian use)	38,000	SF	4.50	171,000	
165		Allow for striping	38,000	SF	0.15	5,700	
166							
167							
168	4	NEW ASHPALT OVERLAY				214,700	6 \$/SF
169							
170		Restroom Modernization					
171							
172		Demolition	1,900	SF	10.00	19,000	
173		Floor finishes	1,900 2.565	SF SF	18.00	34,200	
174		Wall finishes Ceiling finishes	1,900	SF	20.00 25.00	51,300 47,500	
176		Toilet accessories	6	EA	1,500.00	9,000	
170		MEP allowance, includes fixture replacement, in		LA	1,500.00	3,000	
177		wall piping rework to support relocation of	1,900	SF	40.00	76,000	
		fixtures	1,500	OI .	40.00	70,000	
178		Threat 60					
179							
180	4	RESTROOM MODERNIZATION				237,000	125 \$/SF
181							
182		Electrical Upgrade					
183							
184		Replace switchgear to support 26 classrooms	1	LS	624,000.00	624,000	
		(700 stu), library, admin bldg., and MUR		LO	024,000.00	024,000	
185							
186							
187	TBD	ELECTRICAL UPGRADE				624,000	
188							
189		Solar Panels					Under District Study - exclude
190							
191							
192	TBD	SOLAR PANELS					

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VARGAS ELEMENTARY SCHOOL - ESTIMATE DETAIL

VARG	AS ELEN	MENTARY SCHOOL - ESTIMATE DETAIL				GSF	: 25,488
REF I	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1							
2		Admin Support Services					
3							
4		New building allowance	880	SF	550.00	484,000	
5							
6							
7	1	ADMIN SUPPORT SERVICES				484,000	550 \$/SF
8							
9		Storage					
10							
11		New building allowance	1,300	SF	275.00	357,500	
12							
13							
14	1	STORAGE				357,500	275 \$/SF
15							
16		Shade Structure					
17							
18		New steel frame, open-sided shade structure with a solid roof	4,500	SF	125.00	562,500	no new paving assumed
19							
20							
21	2	SHADE STRUCTURE				562,500	125 \$/SF
22							
23		Solar Panels					Under District Study - excluded
24							
25							
26	TBD	SOLAR PANELS					

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SECURITY SYSTEM UPGRADE - PA

REF PRIOR	ITY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
3	Replace HVAC					
3	New HVAC units in 10 single-story classroom					
4	and admin. Buildings (10) Bldgs. (Nos. 100,	65,006	SF	32.00	2,080,192	
	200, 300, 500, 700, 800, 1000)				, .	
5						
6						
7 1	REPLACE HVAC				2,080,192	32 \$/SF
9	Locker Room Modernization/Replacement					
10	Locker Room modernization/Replacement					
11	Construct new locker rooms facility	4,691	SF	500.00	2,345,500	
12						
13	LOOKED BOOM MODERNIZATION/DEDI AGEN	I TAIT			2 245 500	FAA A10F
4 1	LOCKER ROOM MODERNIZATION/REPLACEN	IENI			2,345,500	500 \$/SF
15 16	New PE Classroom					
17	01400100111					
18	Construct new PE Classroom	1,200	SF	500.00	600,000	
19						
20 21 1	NEW PE CLASSROOM				600,000	500 \$/SF
	NEW PE CLASSROOM				800,000	500 \$/SF
22 23	Frontage Improvement					
24	- romage improvement					
25	Demolition of existing	113,000	SF	1.00	113,000	
26	Rough and fine grading, allow	113,000	SF	0.50	56,500	
27 28	New hardscape - assume concrete/asphalt	90,400	SF	15.00	1,356,000	80%
28 29	Allow for curbs, striping, signage Softscape - allow for minimal trees/shrubs	22,600	LS SF	25,000.00 15.00	25,000 339,000	20%
30	Drainage	113,000	SF	2.50	282,500	2070
31	Irrigation	22,600	SF	3.00	67,800	
32	Lighting	113,000	SF	3.00	339,000	
33	Misc amenities - fences, gates	113,000	SF	1.00	113,000	
34 35						
36 1	FRONTAGE IMPROVEMENT				2,691,800	24 \$/SF
37	TROWNSE IM ROVEMENT				2,001,000	24 9/01
38	Signage Marquis					
39						
10	Digital signage allowance	1	LS	75,000.00	75,000	
¥1	Electrical/telecom allowance serving new Marquis	1	LS	10,000.00	10,000	
12	maiquio					
43						
14 1	SIGNAGE MARQUIS				85,000	
45						
46	MUR Modernization/Replacement					
47	Allowance for renovation/modernization -					
48	reconfigure for MUR, snack shop and kitchen	9,440	SF	350.00	3,304,000	
49	gara ra mang anaan anap ana monon					
50						
51 1	MUR MODERNIZATION/REPLACEMENT				3,304,000	350 \$/SF
52						
3	Security System Upgrade - PA					
54	Upgrade PA system to enable remote access	1	LS	15,000,00	15,000	
i6	Spa. add 1 /1 System to endule remote decess			10,000.00	10,000	
57						

15,000

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		LEMENTARY SCHOOL - ESTIMATE DETAIL					: 106,781
	DRITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
59 60		Fences And Gates - Ornamental					
61		rences And Gates - Ornamental					
62		Demo existing	1	LS	2,625.00	2,625	
63		Ornamental fence	525	LF	200.00	105,000	8'ht
64		Gates	7	EA	5,000.00	35,000	pedestrian
65							
66							
	1	FENCES AND GATES - ORNAMENTAL				142,625	
68							
69		<u>Drinking Fountains</u>					
70		Poplace aging dripking fountains Pidge 100					
71		Replace aging drinking fountains Bldgs 100, 200, 300, 500, 800, 1100, hi/lo type with bottle	6	EA	5,000.00	30,000	
		filler	ŭ		0,000.00	00,000	
72							
73							
74	1	DRINKING FOUNTAINS				30,000	
75							
76		Electrical Upgrade					
77							
		Site is at capacity (breakers, servicing gear),					
78		upsize system to expand capacity New	1	LS	240,000.00	240,000	
		servicing gear and breakers (replacement) to increase system capacity 50% above existing					
79		increase system capacity 30 % above existing					
80							
81	2	ELECTRICAL UPGRADE				240,000	
82		ELECTRICAL OF CHARLE				240,000	
83		Utility Survey					
84							
		Condition Survey of underground utility lines					
85		(gas, domestic water, sanitary sewer,	320,000	SF	0.20	64,000	
		bldg/stormwater drain, electrical, data)					
86 87							
	•	LITH ITY OLIDICEY				0.1.000	
	2	UTILITY SURVEY				64,000	0 \$/SF
89		DI LIMBINIO DEDAIDO					
90		PLUMBING REPAIRS					
91		Assume repair/replacement of 75% sanitary					
92		sewer lines, 50% of stormwater drain lines, 25%	320,000	SF	3.00	960,000	
		of domestic water lines				,	
93							
94							
95	3	PLUMBING REPAIRS				960,000	3 \$/SF
96							
97		Shade Structure					
98							
99		New steel frame, open-sided shade structure	4,500	SF	125.00	562,500	
100		with a solid roof	,			.,	
101							
	2	SHADE STRUCTURE	_			562,500	125 \$/SF
	_	STIADE STRUCTURE				302,300	120 9/35
103 104		Landscapa, Courtwards					
104		Landscape - Courtyards					
106		Demolition	57,500	SF	1.00	57.500	
107		Rough and fine grading, allow	57,500	SF	0.50	28,750	
108		New hardscape	40,250	SF	35.00	1,408,750	70%
109		Newsoftscape	17,250	SF	15.00	258,750	30%
110		Drainage	57,500	SF	2.50	143,750	
111		Irrigation	17,250	SF	3.00	51,750	
112		Allow for site furnishings - benches, seatwalls,	57,500	SF	5.00	287,500	
		tables etc)	,				

LS

150,000.00

150,000

allowance

Shade feature, allow

113



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CRITTENDEN ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 106,781

CRITTE	NDEN E	LEMENTARY SCHOOL - ESTIMATE DETAIL		GSF: 106,781					
REF P	RIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS		
114		Electric/data connections	57,500	SF	1.00	57,500			
115		Potable water/bibbs	57,500	SF	2.00	115,000			
116		Lighting	57,500	SF	3.00	172,500			
117									
118	2	LANDOCADE COURTYARDO				0 704 750	48 \$/SF		
120		LANDSCAPE - COURTYARDS				2,731,750	48 3/SP		
121		Classroom Modernization							
122		<u></u>							
		Modernize classroom spaces - structural							
		upgrades/support for 2nd floor.							
123		L1-reconfigure interior walls & add openings	17,705	SF	275.00	4,868,875			
		L2-reconfigure all non-structural walls							
124		(increase number of classrooms)							
125									
126	2	CLASSROOM MODERNIZATION				4,868,875	275 \$/SF		
127						1,000,010			
128		Roof Repair							
129									
		Remove existing shingles, re-roof w/ asphalt							
130		shingles. Repair damaged membrane, pipe	24,999	SF	33.00	824,967			
100		flashings/storm collars, gutters/drain assemblies	24,000	01	00.00	024,501			
131									
132									
133	2	ROOF REPAIR				824,967	33 \$/SF		
134		NOOT NEI PAIN				024,007	11000		
135		Technology Upgrade							
136		<u></u>							
		Network cabling in classrooms. Replace copper							
		cable networks Classroom Bldgs.							
137		Bldgs. 400, 1000 (Locker), 1100 (Gym) New							
		fiber & copper cabling between MDF (Bldg. 100)							
		to Bldgs, 1000 & 1100, add interior cabling to WAPs and TVs in classrooms (33)							
138		Interior cabling in classrooms	33	EA	2,500,00	82,500			
139		Fiber and copper cabling	650	LF	25.00	16,250			
140		., ,							
141									
142	2	TECHNOLOGY UPGRADE				98,750			
143									
144		Restroom Modernization							
145		Demove and souless until finishes	4.550	SF	25.00	113,750			
146 147		Remove and replace wall finishes Remove and replace ceiling finishes	4,550 3,000	SF SF	25.00 30.00	113,750 90,000			
148		Remove and replace ceiling linishes Remove and replace floor tiles	3,000	SF	25.00	75,000			
149		Replace partitions & accessories, allow	12	EA	1,500.00	18,000			
150		Plumbing, fixtures and lighting	3,000	SF	60.00	180,000			
151									
152									
153	2	RESTROOM MODERNIZATION				476,750	159 \$/SF		
154									
155		Window Replacement							
156		Poplane eviating glace windows with the con-1							
157		Replace existing glass windows with thermal insulating glass	1	LS	2,450,000.00	2,450,000	remove and replace - allowance		
158		modiating glass							
159									
160	3	WINDOW REPLACEMENT				2,450,000			
161						=1::=:1::0			
162		Roof Repair							
163									
		Repair damaged membrane, pipe							
164		flashings/storm collars, gutters/drain assemblies	29,195	SF	7.00	204,365	Not a roof replacement		
		- allow							

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CRITTENDEN ELEMENTARY SCHOOL - ESTIMATE DETAIL

		ELEMENTARY SCHOOL - ESTIMATE DETAIL				GSF: 106,781	
REF F	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
165							
166							
167	3	ROOF REPAIR				204,365	7 \$/SF
168							
169		Utility Network Repair					
170							
171		Assume repair/replacement of 25% of utility systems not covered under plumbing repairs (gas, electrical/data)	320,000	SF	1.00	320,000	
172		(3,)					
173							
174	3	UTILITY NETWORK REPAIR				320,000	1 \$/SF
175							
176		Playfield Rail Upgrade					
177							
178		Replace rail, allowance	1	LS	25,000.00	25,000	
179							
180							
181	4	PLAYFIELD RAIL UPGRADE				25,000	
182							
183		Auditorium Systems Upgrade					
184							
185		Replace A-V/Sound System	1	LS	200,000.00	200,000	
186							
187	4	AUDITORIUM SYSTEMS UPGRADE				200,000	
189	•	// CDITORION OTOTEMO OF STORE				200,000	
190		Structural Upgrade					
191		Otructural Opgrade					
192		Provide structural upgrade to B300 if bldg is modernized	4,650	SF	75.00	348,750	assume architectural cut and patc as needed only
193							
194							
195	TBD	STRUCTURAL UPGRADE				348,750	75 \$/SF
196							
197		Solar Panels					Under District Study - excluded
198							
199							



Masterplan Budget Plan September 30, 2019

GRAHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

GSF: 84,173

		MENTARY SCHOOL - ESTIMATE DETAIL					: 84,173
REF F	PRIORITY	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
2		Replace HVAC					
3		TO MADE THE TO					
		Replace Existing HVAC Systems8 Bldgs.					
4		(Nos. 2, 3, 4, 5, 6, 8, 11, 12) New HVAC units in	39,838	SF	32.00	1,274,816	
		10 single-story classroom and admin, buildings					
5							
6							
7	1	REPLACE HVAC				1,274,816	32 \$/SF
8							
9		Classroom Modernization					
10							
		Modernize classroom spaces - lab-type spaces					
11		for woodshop (electrical/ventilation), home	6,396	SF	275.00	1,758,900	
		economics (i.e., kitchens), and art lab type	0,000	OI.	270.00	1,700,000	
		spaces					
12							
13							
14	1	CLASSROOM MODERNIZATION				1,758,900	275 \$/SF
15							
16		Landscape - Courtyards					
17		Demolition	41,850	SF	1.00	41,850	
18		Rough and fine grading, allow	41,850	SF SF	0.50	41,850 20,925	
20		New hardscape	20,925	SF	35.00	732,375	50%
21		New softscape	20,925	SF	15.00	313,875	50%
22		Drainage	41,850	SF	2.50	104,625	
23		Irrigation	20,925	SF	3.00	62,775	
		Allow for site furnishings - benches, seatwalls,	41,850	SF	5.00	209,250	
24		tables etc)	41,000				
25		Shade feature, allow	1	LS	150,000.00	150,000	allowance
26		Electric/data connections	41,850	SF	1.00	41,850	
27		Lighting	41,850	SF	3.00	125,550	
28 29							
30	1	LANDSCAPE - COURTYARDS				1.803.075	43 \$/SF
		LANDSCAFE - COURT TARDS				1,003,075	43 9/3F
31 32		Shada Structura					
33		Shade Structure					
		New steel frame, open-sided shade structure					
34		with a solid roof	4,500	SF	125.00	562,500	
35							
36							
37	1	SHADE STRUCTURE				562,500	125 \$/SF
38							
39		Fences And Gates - Ornamental					
40							
41		Demo existing	1	LS	4,800.00	4,800	
42		Ornamental fence	960	LF	200.00	192,000	8"ht
43		Gates	6	EA	20,000.00	120,000	vehicular
44							
45							
46	1	FENCES AND GATES - ORNAMENTAL				316,800	
47		THE STATE OF THE S					
48		Utility Survey					
49		Condition Survey of underground utility lines					
50		(gas, domestic water, sanitary sewer,	395,000	SF	0.20	79.000	
30		bldg/stormwater drain, electrical, data)	333,000	01	0.20	13,000	
51		and and areas, areas, acta,					
52							
53	2	UTILITY SURVEY				79,000	0 \$/SF
54	_					, 5,555	
55		Plumbing Repairs					
56							

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

GRAHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

RAHAM ELE	MENTARY SCHOOL - ESTIMATE DETAIL	GSF : 84,173					
REF PRIORIT	TY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS	
57	Repair campus sanitary sewer lines & bldg. drain lines Assume repair/replacement of 75% sanitary sewer lines, 50% of stormwater drain lines, 25% of domestic water lines	395,000	SF	3.00	1,185,000		
58							
59							
60 2	PLUMBING REPAIRS				1,185,000	3 \$/SF	
61 62	Gym Modernization						
63	Sylli Model Ilization						
64	Replace finishes, HVAC, A-V/Sound system, and lights, add individual changing stations, non-gender changing rooms	29,200	SF	250.00	7,300,000		
65 66	New FF&E					excluded	
67							
68 2	GYM MODERNIZATION				7,300,000	250 \$/SF	
69							
70 71	Locker Room Modernization					Included with Gym Modernization above	
72							
73 2	LOCKER ROOM MODERNIZATION						
74	Don't Don't						
75 76	Roof Repair						
77	Remove existing shingles, re-roof w/ asphalt shingles. Repair damaged membrane, pipe flashings/storm collars, gutters/drain assemblies	16,290	SF	33.00	537,570		
78							
79							
80 2	ROOF REPAIR				537,570	33 \$/SF	
81 82 83	Technology Upgrade						
84	Replace copper cabling between MDF (Bldg. 9) to Bldgs. 1-17 Add interior cabling to Front Row Devices in classrooms (46)	2,120	LF	25.00	53,000		
85 86							
87 2	TECHNOLOGY UPGRADE				53,000		
88	TECHNOLOGY OF GRADE				33,000		
89	Signage - Campus Frontage						
90							
91	Allow for new signage	1 1	LS	75,000.00	75,000		
92 93	New signage, allow power and data	1	LS	10,000.00	10,000		
94							
95 3	SIGNAGE - CAMPUS FRONTAGE				85,000		
96							
97 98	WINDOW REPLACEMENT						
99	Replace existing glass windows with thermal	1	LS	2,465,000.00	2,465,000	remove and replace - allowance	
100	insulating glass						
101							
102 3	WINDOW REPLACEMENT				2,465,000		
103	Fonces And Gates Ornemental						
104	Fences And Gates - Ornamental						
106	Demo existing	1	LS	2,500.00	2,500		
107	Ornamental fence	415	LF	200.00	83,000	8'ht	
108	Gates	6	EA	5,000.00	30,000	pedestrian	
109 110							
110							



Masterplan Budget Plan September 30, 2019

GSF: 84,173

GRAHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	PRIORITY	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
111	3	FENCES AND GATES - ORNAMENTAL				115,500	

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

GRAH	AM ELE	MENTARY SCHOOL - ESTIMATE DETAIL				GSF	: 84,173
REF I	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
112							
113 114		Pickup/Dropoff, Parking					
115		Demolition of existing	41,000	SF	1.00	41,000	
116		Rough and fine grading, allow	41.000	SF	0.50	20.500	
117		New hardscape - assume concrete/asphalt	36,900	SF	12.00	442,800	90%
118		Allow for curbs, striping, signage	1	LS	95,000.00	95,000	
119		Softscape - allow for minimal trees/shrubs	4,100	SF	15.00	61,500	10%
120		Drainage	41,000	SF	2.50	102,500	
121		Irrigation Lighting	4,100 41,000	SF SF	3.00	12,300 123,000	
123		Eighting	41,000	OI.	3.00	123,000	
124							
125	3	PICKUP/DROPOFF, PARKING				898,600	22 \$/SF
126		·					
127		Restroom Modernization					ADA upgrades/lighting completed
128							
129		Remove and replace wall finishes	3,625	SF	25.00	90,625	
130		Remove and replace floor tiles	2,280	SF EA	25.00	57,000	
131		Replace partitions & accessories, allow Plumbing fixtures	10 2,280	SF	2,500.00 35.00	25,000 79,800	
133		i rumong lixtures	2,200	Oi .	33.00	79,000	
134							
135	3	RESTROOM MODERNIZATION				252,425	111 \$/SF
136							
137		Roof Repair					
138							
139		Repair damaged membrane, pipe flashings/storm collars, gutters/drain assemblies - allow	39,653	SF	7.00	277,571	Not a roof replacement
140							
141							
142	3	ROOF REPAIR				277,571	7 \$/SF
143							
144		Utility Network Repairs					
146		Assume repair/replacement of 25% of utility systems not covered under plumbing repairs (gas, electrical/data)	395,000	SF	1.25	493,750	
146		systems not covered under plumbing repairs	395,000	SF	1.25	493,750	
146 147 148		systems not covered under plumbing repairs (gas, electrical/data)	395,000	SF	1.25		4495
146 147 148 149	3	systems not covered under plumbing repairs	395,000	SF	1.25	493,750 493,750	1 \$/SF
146 147 148 149	3	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS	395,000	SF	1.25		1 \$/SF
146 147 148 149	3	systems not covered under plumbing repairs (gas, electrical/data)	395,000	SF	1.25		1 \$/SF
146 147 148 149 150 151	3	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS	395,000	SF	30.00		1 \$/SF
146 147 148 149 150 151 152 153	3	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/teroof 50% of covered walkway roof (built-up roof) and walkways (concrete)				493,750	1 \$/SF
146 147 148 149 150 151 152 153		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (built-up roof) and walkways (concrete) area				493,750 444,000	
146 147 148 149 150 151 152 153 154 155	3	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/teroof 50% of covered walkway roof (built-up roof) and walkways (concrete)				493,750	1 \$/SF 30 \$/SF
146 147 148 149 150 151 152 153 154 155 156		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/teroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY				493,750 444,000	
146 147 148 149 150 151 152 153 154 155 156 157		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (built-up roof) and walkways (concrete) area				493,750 444,000	
146 147 148 149 150 151 152 153 154 155 156 157 158 159		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/teroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY				493,750 444,000	
146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (bulit-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt	14,800	SF	30.00	493,750 444,000 444,000	
146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162	4	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (bulit-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt	14,800	SF	30.00	493,750 444,000 444,000 30,000	30 \$/SF
146 147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163		systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (built-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt ground surface	14,800	SF	30.00	493,750 444,000 444,000	
146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163	4	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt ground surface PLAYGROUND - RELOCATE BIKE ENCLOSURE	14,800	SF	30.00	493,750 444,000 444,000 30,000	30 \$/SF 20 \$/SF
146 147 148 149 150 151 152 153 154 155 156 159 160 161 162 163	4	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/ireroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt ground surface	14,800	SF	30.00	493,750 444,000 444,000 30,000	30 \$/SF
146 147 148 149 150 151 152 153 154 155 156 157 158 160 161 162 163	4	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt ground surface PLAYGROUND - RELOCATE BIKE ENCLOSURE	14,800	SF	30.00	493,750 444,000 444,000 30,000	30 \$/SF 20 \$/SF
146 147 148 149 150 151 152 153 154 155 156 157 160 161 162 163 164 165 166	4	systems not covered under plumbing repairs (gas, electrical/data) UTILITY NETWORK REPAIRS Covered Walkway Assume repair/reroof 50% of covered walkway roof (bult-up roof) and walkways (concrete) area COVERED WALKWAY Playground - Relocate Bike Enclosure New chain link fenced enclosure and asphalt ground surface PLAYGROUND - RELOCATE BIKE ENCLOSURE	14,800	SF	30.00	493,750 444,000 444,000 30,000	30 \$/SF 20 \$/SF

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LATHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

EF	PRIORIT	Y DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1							
3		Site Accessibility					
4		Demolition	1,620	SF	1.00	1,620	
5		Rough and fine grading	1,620	SF	0.50	810	
6		New pathways	1,620	SF	30.00	48,600	
7							
8							
9	1	SITE ACCESSIBILITY				51,030	32 \$/SF
10		Disco Olivetes					
12		Play Cluster					
13		Build new play area for preschool	1,000	SF	20.00	20,000	demo, landscaping
14		Drainage, irrigation, lighting	1,000	SF	7.00	7,000	
15		Play equipment	1	LS	50,000.00	50,000	
16							
17							
18	1	PLAY CLUSTER				77,000	77 \$/SF
19		Fances And Cates					
20 21		Fences And Gates					
22		Demo existing	1	LS	2,500.00	2,500	
23		Ornamental fence	380	LF	200.00	76,000	8'ht
24		Gates	3	EA	5,000.00	15,000	pedestrian
25							
26							
27	1	FENCES AND GATES				93,500	
28							
29 30		Shade Structure					
31		New open-sided shade structure with a fabric roof in playground area	1,200	SF	85.00	102,000	
32							
33							
34	1	SHADE STRUCTURE				102,000	85 \$/SF
35							
36		Outdoor Landscaped Spaces					
37 38		Demolition	7,000	SF	1.00	7,000	
39		Rough and fine grading, allow	7,000	SF	0.50	3,500	
		New hardscape	2,100	SF	35.00	73,500	30%
40		Tot turf	2,800	SF	18.00	50,400	40%
40 41							30%
		New softscape	2,100	SF	15.00	31,500	3076
41 42 43		Drainage	2,100 7,000	SF SF	2.50	17,500	30%
41 42		Drainage Irrigation	2,100	SF			30%
41 42 43		Drainage Irrigation Allow for site furnishings - benches, seatwalls,	2,100 7,000	SF SF	2.50	17,500	30/8
41 42 43 44 45		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc)	2,100 7,000 2,100 7,000	SF SF SF	2.50 3.00 5.00	17,500 6,300 35,000	
41 42 43 44		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow	2,100 7,000 2,100 7,000	SF SF SF SF	2.50 3.00 5.00 50,000.00	17,500 6,300 35,000 50,000	allowance
41 42 43 44 45		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow Electric/data connections	2,100 7,000 2,100 7,000	SF SF SF	2.50 3.00 5.00	17,500 6,300 35,000	
41 42 43 44 45 46 47 48 49		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow	2,100 7,000 2,100 7,000 1 7,000	SF SF SF SF LS SF	2.50 3.00 5.00 50,000.00 3.00	17,500 6,300 35,000 50,000 21,000	
41 42 43 44 45 46 47 48 49 50		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow Electric/data connections Lighting	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000	
41 42 43 44 45 46 47 48 49 50		Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000	allowance
41 42 43 44 45 46 47 48 49 50 51	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow Electric/data connections Lighting	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000	
41 42 43 44 45 46 47 48 49 50 51 52	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables etc) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000	allowance
41 42 43 44 45 46 47 48 49 50 51 52 53 54	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000	allowance
41 42 43 44 45 46 47 48 49 50 51 52	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES Technology Upgrades	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000	allowance
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES Technology Upgrades Replace ethernet cable with OM4 fiber cables to	2,100 7,000 2,100 7,000 1 7,000 7,000 7,000	SF SF SF LS SF SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00 1.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000 323,700	allowance
41 42 43 44 45 46 47 48 49 50 51 52 53 54	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES Technology Upgrades Replace ethernet cable with OM4 fiber cables to connect to MDF, replace all copper cables with	2,100 7,000 2,100 7,000 1 7,000 7,000	SF SF SF LS SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000	allowance
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES Technology Upgrades Replace ethernet cable with OM4 fiber cables to	2,100 7,000 2,100 7,000 1 7,000 7,000 7,000	SF SF SF LS SF SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00 1.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000 323,700	allowance
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	1	Drainage Irrigation Allow for site furnishings - benches, seatwalls, tables eto) Shade feature, allow Electric/data connections Lighting Potable water/bib OUTDOOR LANDSCAPED SPACES Technology Upgrades Replace ethernet cable with OM4 fiber cables to connect to MDF, replace all copper cables with	2,100 7,000 2,100 7,000 1 7,000 7,000 7,000	SF SF SF LS SF SF SF	2.50 3.00 5.00 50,000.00 3.00 3.00 1.00	17,500 6,300 35,000 50,000 21,000 21,000 7,000 323,700	allowance

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Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan September 30, 2019

LATE	HAM ELEMENTARY SCHOOL - ESTIMATE DETAIL				GSF:	5,760
REF	PRIORITY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
60						
61	Classroom Modernization					not required
62						
63						
64	3 CLASSROOM MODERNIZATION					

Mountain View Whisham School District

Student Facilities Improvement Plan Update

Mountain View, California

Masterplan Budget Plan SFIP Update

Report Prepared for:

Artik Art & Architecture

November 1, 2019

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Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View California



Masterplan Budget Plan SFIP Update November 01, 2019

BASIS OF ESTIMATE

REFERENCE DOCUMENTATION

This Construction Cost Estimate was produced from the following documentation. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

Document

- SFIP Update-2019 PROJECTS+COSTS_23 Oct 19_v3.1

BASIS FOR PRICING

This estimate reflects the fair construction value for this project and should not be construed as a prediction of low bid. Prices are based on local prevailing wage construction costs at the time the estimate was prepared. Pricing assumes a procurement process with competitive bidding for all sub-trades of the construction work, which is to mean a minimum of 3 bids for all subcontractors and materials/equipment suppliers. If fewer bids are solicited or received, prices can be expected to be higher.

Subcontractor's markups have been included in each line item unit price. Markups cover the cost of field overhead, home office overhead and subcontractor's profit. Subcontractor's markups typically range from 15% to 25% of the unit price depending on market conditions.

General Contractor's/Construction Manager's Site Requirement costs are calculated on a percentage basis. General Contractor's/Construction Manager's Jobsite Management costs are also calculated on a percentage basis.

 Site Requirements
 5.0%

 Jobsite Management
 10.0%

 Phasing
 0.0%

General Contractor's/Construction Manager's overhead and fees are based on a percentage of the total direct costs plus general conditions, and covers the contractor's bond, insurance, site office overheads and profit.

Insurance & Bonding 2.5%
General Contractor Bonding
Sub-Contractor Bonding

SUD-CUIII AI SSIP

Fee (G.C. Profit) 5.0%

Unless identified otherwise, the cost of such items as overtime, shift premiums and construction phasing are not included in the line item unit price.

This cost estimate is based on standard industry practice, professional experience and knowledge of the local construction market costs. TBD Consultants have no control over the material and labor costs, contractors methods of establishing prices or the market and bidding conditions at the time of bid. Therefore TBD Consultants do not guarantee that the bids received will not vary from this cost estimate.

CONTINGENCY

Design Contingency 15.0%

The Design Contingency is carried to cover scope that lacks definition and scope that is anticipated to be added to the Design. As the Design becomes more complete the Design Contingency will reduce.

Construction Contingency 10.0%

The Construction Contingency is carried to cover the unforeseen during construction execution and Risks that do not currently have mitigation plans, As Risks are mitigated, Construction Contingency can be reduce, but should not be eliminated.

Soft Costs 30.0%

An owners contingency has not been included in this construction cost estimate, but it is advised that the owner carry additional contingency to cover scope change, bidding conditions, claims and delays.

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BASIS OF ESTIMATE

ESCALATION

Escalation is included to October 2024 at the following per annum escalation rates:

Escalation:	33.82%
Year 0 - 1	6.00%
Year 1 - 2	6.00%
Year 2 - 3	6.00%
Year 3 - 4	6.00%
Year 4 - 5	6.00%
Beyond 5 Years	6.00%

This calculation does not account for adverse bidding conditions and a separate Bid Contingency should be carried if there are limited qualified bidders or if a market research study indicates.

EXCLUSIONS

- Land acquisition, feasibility studies, financing costs and all other owner costs
- All professional fees and insurance
- Site surveys, existing condition reports and soils investigation costs Items identified in the design as Not In Contract [NIC]

- Hazardous materials investigations and abatement
 Utility company back charges, including work required off-site and utilities rates
 Work to City streets and sidewalks
 Items defined as Vendor / Owner supplied and Vendor / Owner installed

- Permits
- Owners contingency
 Overtime, 2nd shift and lost productivity premiums
- Design Fees
- PG & E Fees
- Sustainability Fees (LEED)
- Furniture, fixtures and equipment (FF&E)

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ain View Whisham School District Facilities prorowment Plan Update In View, California					thd consulto	ants							Mesterplen Bud	iget Plan SPIF Update November 01, 2019
CONSTRUCTION COST SUMMARY														
0.ECT	TOTAL	8488	HUFF	LANDELS	MESTRAL	CASTRO	MONTA LOMA	STEVENSON	THEVERKAUF	VARGAS	CRETTENDEN	GRAHAM	MONTECTO	COOPER
PROJECT 1 DEMO BUILDINGS	519,001	79,100	71,533	69,418			124,670				175,280			
PROJECT I SITE ENGINEERING PROJECT I SITE DESIGNATIONTAGENEW PARKING/PICKUP/DROP	4,223,200	618,000 897,000	583,500 1,035,000	506,700 009,400			1,567,500				947,500 3,449,000			
PROJECT 1 REBUILD PLAYGROUND	969,900	399,000	296,000	275,500			6,012,729				3,449,000			
PROJECT I REPLACE BUILDINGS	72,583,100	11.528.000	10.725.000	10.355.000			18.095.000				21.840.100			
PROJECT IA DEMO MOT A PORTABLES	40.320	11,000,000	10,723,004	10,220,000			10,032,000				21,040,100	40.320		
PROJECT 1A SITE ENGINEERING	414,000											414,000		
PROJECT IA NEW BUILDINGS	14.245.000											14,245,000		
PROJECT 1A SITE DESIGNILANDSCAPING IMPROVEMENTS	1,595,010											1,595,010		
PROJECT 18 DEMO BUILDING	105,540											106,540		
PROJECT IS SITE ENGINEERING	248,000											248,000		
PROJECT 18 NEW BUILDINGS	6,105,000											6,105,000		
PROJECT 18 NEW LIBRARY IN RENOVATED BLDG	1,435,200											1,435,200		
PROJECT I NEW RESTROOMS	299,500				299,500									
PROJECT 2 NEW RESTROOMS	898,500	299,500	299,500	299,500										
PROJECT 2 DEMO PORTABLES	28,800				28,800									
PROJECT 2 NEW BUILDINGS	24,332,500										19,492,500	4,840,000 156,772		
PROJECT 2 DEMO BUILDING PROJECT 2 SI TE FRONTAGE IMPROVEMENTS	1,285,000										123,936	1265,000		
PROJECT 2 NEW MURNITCHENSNACK SHACK	7,540,000											7.540.000		
PROJECT 2 NEW CLASSROOM BUILDING	7,645,000											7,645,000		
PROJECT 2 SITE ENGINEERING	934,750										234,750	700,000		
PROJECT 2 SETE DESIGNAANDSCAPING/JMPROVEMENTS	1,747,120										883,120	864,000		
PROJECT 2 LANDSCAPING AND PLAY EQUIPMENT	637,590				637,560									
PROJECT 3 DEMO BUILDINGS	245,000				132,020						112,960			
PROJECT 3 SITE ENGINEERING	559,750				192,000						374,750			
PROJECT 3 SITE DESIGNLANDSCAPING	1,851,940				600,710						1,251,230			
PROJECT 3 REPLACE BUILDINGS	28,380,000				14,025,000						14,355,000			
SOLAR ENERGY	9,189,500	531,000	495,000	544,500	441,000	441,000	666,000	769,500	1,008,000	373,500	1,714,500	1,561,500		644,000
SECOND LEVEL DECK	472,500					472,500								
BUILD THREE NEW PLEX ROOMS BUILD OPEN PAYLION DECK	1,267,500					1,267,500								
MODERNIZE PORTABLES FOR CLASSROOM AND OFFICE	1,956,800					144,000							1,996,800	
MODERNIZE COURTYARD	429.100												429.180	
DEMO BUILDINGS	63.294												429,100	63.294
SITE IMPROVEMENTS	1,052,220													1.052.220
NEW SHOP	3,015,000													3,015,000
NEW WAREHOUSE	1,030,000													1,030,000
NEW ADMINISTRICE BUILDING	990,000													990,000
NEW COVERED LAYDOWN FACILITY	875,000													875,000
NEW DISTRICT KITCHEN	4,160,000													4,160,000
SITE IMPROVEMENTS	244,000													264,000
r costs	216,320,711	14,351,690	18,504,533	12,959,018	14,346,530	2,325,600	26,465,319	769,500	1,003,000	373,500	64,955,485	48,761,342	2,425,980	12,074,314
SITE REQUIREMENTS 5.6%	10,016,026	717,500	675,227	647,951	817,327	116,250	1,323,295	38,475	50,400	10,675	3,247,775	2,430,067	121,299	603,716
JOBSITE MANAGEMENT 10,0%	21,632,071	1,435,160	1,350,453	1,295,902	1,634,653	232,500	2,646,590	76,950	100,800	37,350	6,495,550	4,876,134	242,598	1,207,431
PHASING														
ESTIMATE SUB-TOTAL	248,768,818	16,504,340	15,530,213	14,902,871	18,790,510	2,673,750	39,435,784	E84,925	1,159,280	429,525	74,698,819	59,975,543	2,789,877	13,885,461
INSURANCE + BONDING 2.5%	6,219,220	412,609	388,255	372,572	469,963	66,844	760,895	22,123	28,980	10,738	1,867,470	1,401,889	69,747	347,137
FEE 5.0%	12,438,441	825.217	776,611	745,144	939,925	133,688	1,521,789	44.246	67,960	21,476	3,734,941	2,803,777	139,494	694,273
ESTIMATE SUB-TOTAL	267,426,479	17,742,198	16,694,979	16,020,586	21,216,358	2,874,281	32,718,468	951,294	1,245,140	461,739	80,301,231	69,281,269	2,959,118	14,925,871
DESIGN CONTINGENCY 15,0%	40,113,972	2,651,325	2.504.247	2,403,088	3,031,290	431,142	4.907,770	142,694	186,921	69.261	12,045,185	9,042,181	449,858	2,239,031
CONSTRUCTION CONTINGENCY 10.0%	26,742,648	1,774,217	1,003,438	1,602,059	2,020,840	287,428	3,271,847	95,129	124,614	46,174	8,030,123	6,628,121	299,912	1,492,687
SOFT COSTS 30,0%	80,227,944	5,322,650	5,008,494	4,806,176	6,062,519	062,284	9,815,540	205,300	373,842	118,522	24,090,369	18,084,363	899,735	4,478,061
ESTIMATE SUB-TOTAL	414,511,642	27,500,357	25,877,217	24,831,903	31,323,616	4,455,136	50,713,625	1,474,566	1,931,517	715,696	124,465,988	93,435,874	4,648,633	23,136,650
ESCALATION 33,8%	140,198,237	9,301,324	8,752,337	8,398,787	10,594,245	1,506,841	17,152,645	493,716	653,288	242,067	42,097,892	31,992,492	1,972,286	7,925,407



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HUFF ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1	Project 1 Demo Buildings					
3	Froject i Demo Buildings					
4	Demo existing Units 1 and 2	10,219	SF	7.00	71,533	
5	•					
6						
7	PROJECT 1 DEMO BUILDINGS				71,533	
8						
9	Project 1 Site Engineering					
10 11	Site grading, site utilities	116,700	SF	5.00	583.500	
12	One grading, site dulines	110,700	- 01	0.00	500,500	
13						
14	PROJECT 1 SITE ENGINEERING				583,500	
15						
16	Project 1 Site Design/Frontage/New Parking/Pi	ckup/Dropoff				
17	AD 5 1 00 1 1 1	75.000			440.500	
18 19	Allow for demolition, clearing and grading New asphalt	75,000 52,500	SF SF	1.50 5.00	112,500 262,500	100%
20	Concrete curbs/walkways	15,000	SF	35.00	525,000	20%
21	Landscaping, incl irrigation	7,500	SF	18.00	135,000	10%
22						
23						
24	PROJECT 1 SITE DESIGN/FRONTAGE/NEW PA	RKING/PICKU	P/DROPO	FF	1,035,000	
25						
26	Project 1 Rebuild Playground					
27 28	Allow for demolition, clearing and grading	30,000	SF	1.50	45.000	100%
29	New asphalt	30,000	SF	5.00	150,000	100%
30	New play equipment	2	LOC	50.000.00	100,000	
31						
32						
33	PROJECT 1 REBUILD PLAYGROUND				295,000	
34						
35	Project 1 Replace Buildings					
36 37	New building construction	19,500	SF	550.00	10,725,000	classrooms
38	New ballating constituction	19,500	- 01	330.00	10,123,000	daddiodina
39						
40	PROJECT 1 REPLACE BUILDINGS				10,725,000	
41						
42	Project 2 New Restrooms					
43						
44	New adult restroom for park/playfield - new free-	480	ee.	400.00	102.000	
44	standing restroom (m/w) facility at playfield/ park for use by public	480	SF	400.00	192,000	
45	Drinking station	1	EA	10,000.00	10,000	
46	Walkway	500	SF	35.00	17,500	
47	Extend utilities (500 lf) to restroom (water,	500	LF	160.00	80,000	
	sanitary sewer, electrical, data)			100.00	00,000	
48 49						
50	PROJECT 2 NEW RESTROOMS				299,500	
	FROJECT Z NEW RESTROOMS				299,500	
51 52	Solar Energy					
53	COM ETICISY					
54	Install roof mounted solar arrays	110	KW	4,500.00	495,000	1-45 kW, 2-64 kW
55	·			·	•	
56						
57	SOLAR ENERGY				495,000	

DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
Project 1 Demo Buildings					
Dome existing Unite 4 and 2	11 200	er.	7.00	70 100	
Demo existing Units 1 and 2	11,300	SF	7.00	79,100	
PROJECT 1 DEMO BUILDINGS				79,100	
				,	
Project 1 Site Engineering					
Site grading, site utilities	123,600	SF	5.00	618,000	
PROJECT 1 SITE ENGINEERING				618,000	
PROJECT I SITE ENGINEERING				616,000	
Project 1 Site Design/Frontage/New Parking/Pic	kun/Dropoff				
- Tologram Tomagament annuage to	паривнорон.				
Allow for demolition, clearing and grading	65,000	SF	1.50	97,500	100%
New asphalt	45,500	SF	5.00	227,500	70%
Concrete curbs/walkways Landscaping, incl irrigation	13,000 6,500	SF SF	35.00 18.00	455,000 117,000	10%
Landscaping, inclinigation	0,500	Gi	10.00	117,000	1070
PROJECT 1 SITE DESIGN/FRONTAGE/NEW PAI	RKING/PICKUP	P/DROPO	FF	897,000	
Project 1 Rebuild Playground					
All and a decided and the second and the second	40.000	0.5	4.50	00.000	
Allow for demolition, clearing and grading New asphalt	46,000 46,000	SF SF	1.50 5.00	69,000 230.000	100%
New play equipment	2	LOC	50,000.00	100,000	
·					
PROJECT 1 REBUILD PLAYGROUND				399,000	
Project 1 Replace Buildings					
New building construction	20,960	SF	550.00	11,528,000	classrooms
Tron ballang berlettaster	20,000		000.00	11,020,000	
PROJECT 1 REPLACE BUILDINGS				11,528,000	
Project 2 New Restrooms					
New adult restroom for park/playfield - new free-					
standing restroom (m/w) facility at playfield/	480	SF	400.00	192,000	
park for use by public					
Drinking station	1	EA	10,000.00	10,000	
Walkway	500	SF	35.00	17,500	
Extend utilities (500 lf) to restroom (water, sanitary sewer, electrical, data)	500	LF	160.00	80,000	
samaly sever, electrical, data;					
PROJECT 2 NEW RESTROOMS				299,500	
Solar Energy					
		1041	4.500.00	504.000	4.74.144.6.47.144
Install roof mounted solar arrays	118	KW	4,500.00	531,000	1-71 kW, 2-47 kW

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LANDELS ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1 2	Project 1 Demo Buildings					
3						
4 5	Demo existing Units 1 and 2	9,774	SF	7.00	68,418	
6						
7	PROJECT 1 DEMO BUILDINGS				68,418	
8						
9	Project 1 Site Engineering					
10 11	Site grading, site utilities	101,340	SF	5.00	506,700	
12	One grading, site dilities	101,040	- 01	0.00	500,700	
13						
14	PROJECT 1 SITE ENGINEERING				506,700	
15	Designated A City Designation (Franches and New Designation (Pi	-1 (D ##				
16	Project 1 Site Design/Frontage/New Parking/Pio	CKUD/Dropott				
18	Allow for demolition, clearing and grading	63,000	SF	1.50	94,500	100%
19	New asphalt	44,100	SF	5.00	220,500	70%
20	Concrete curbs/walkways Landscaping	12,600 6,300	SF SF	35.00 18.00	441,000 113,400	10%
22		0,000			,	
23						
24	PROJECT 1 SITE DESIGN/FRONTAGE/NEW PA	RKING/PICKUI	P/DROPO	FF	869,400	
25	Declared 4 Debatted Discourses					
26 27	Project 1 Rebuild Playground					
28	Allow for demolition, clearing and grading	27,000	SF	1.50	40,500	100%
29	New asphalt	27,000	SF	5.00	135,000	
30	New play equipment	2	LOC	50,000.00	100,000	
32						
33	PROJECT 1 REBUILD PLAYGROUND				275,500	
34	Product 4 Product Problems					
35	Project 1 Replace Buildings					
37	New building construction	18,900	SF	550.00	10,395,000	classroom
38						
39 40	PROJECT 1 REPLACE BUILDINGS				10,395,000	
41	PROJECT I REPLACE BUILDINGS				10,393,000	
42	Project 2 New Restrooms					
43						
44	New adult restroom for park/playfield - new free- standing restroom (m/w) facility at playfield/	480	SF	400.00	192,000	
44	park for use by public	400	ЭF	400.00	192,000	
45	Drinking station	1	EA	10,000.00	10,000	
46	Walkway Extend utilities (500 lf) to restroom (water,	500	SF	35.00	17,500	
47	sanitary sewer, electrical, data)	500	LF	160.00	80,000	
48						
49						
50	PROJECT 2 NEW RESTROOMS				299,500	
51 52	Solar Energy					
52	Solai Effergy					
54	Install roof mounted solar arrays	121	KW	4,500.00	544,500	1-57 kW, 2-64 kW
55 56						
57	SOLAR ENERGY				544,500	
31	OULAR ENERGY				344,300	

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F	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
!	Project 1 New Restrooms					
	New adult restroom for park/playfield - new free-	400	05	400.00	400.000	
	standing restroom (m/w) facility at playfield/	480	SF	400.00	192,000	
	park for use by public					
	Drinking station	1	EA	10,000.00	10,000	
	Walkway	500	SF	35.00	17,500	
	Extend utilities (500 lf) to restroom (water,	500	LF	160.00	80,000	
	sanitary sewer, electrical, data)					
1						
)	PROJECT 1 NEW RESTROOMS				299,500	
1						
2	Project 2 Demo Portables					
3						
1	Demo existing portables	5,760	SF	5.00	28,800	
5						
3						
7	PROJECT 2 DEMO PORTABLES				28,800	
3						
9	Project 2 Landscaping And Play Equipment					
)						
ı	Allow for demolition, clearing and grading	21,500	SF	1.50	32,250	100%
2	Softscape	10,750	SF	18,00	193,500	50%
3	Specialized play surface	6,450	SF	25.00	161,250	30%
4	Hardscape	4,300	SF	35,00	150,500	20%
5	New play equipment	2	LOC	50,000.00	100,000	
3						
7						
В	PROJECT 2 LANDSCAPING AND PLAY EQUIPM	ENT			637,500	
9						
0	Project 3 Demo Buildings					
1	·					
2	Demo existing buildings H/J/K/L	18,860	SF	7.00	132,020	
3						
4						
5	PROJECT 3 DEMO BUILDINGS				132,020	
3					,	
7	Project 3 Site Engineering					
, B	Froject 3 Site Engineering					
9	Site grading, site utilities	36,400	SF	5.00	182,000	
)	one grading, site utilities	30,400	31	3.00	102,000	
1						
2	PROJECT 3 SITE ENGINEERING				182,000	
	TROOLOT JOHE ENGINEERING				102,000	
3	D1+2 Cit- D1#					
4	Project 3 Site Design/Landscaping					
5	Allow for done liking allowing and another	00.050	SF	4.50	05 475	
8	Allow for demolition, clearing and grading	23,650		1.50	35,475	100%
7	New asphalt	4,730	SF	5.00	23,650	20%
	Concrete	11,825	SF	35.00	413,875	50% 30%
3						
9	Landscaping	7,095	SF	18.00	127,710	30%
	Landscaping	7,095	SF	18.00	127,710	30%

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MISTRAL ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
53						
54	Project 3 Replace Buildings					
55						
56	New building construction	25,500	SF	550.00	14,025,000	classroom buildings
57						
58						
59	PROJECT 3 REPLACE BUILDINGS				14,025,000	
60						
61	Solar Energy					
62						
63	Install Solar Arrays (free-standing)	98	KW	4,500.00	441,000	
64						
65						
66	SOLAR ENERGY				441,000	

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CASTRO ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Second Level Deck					
3						New concrete/steel deck over staff
4	Construct 2nd level deck over parking	6,300	SF	75.00	472,500	parking area, connect to existing 2nd level deck (Bldg. C) for stair and elevator access.
5						
6						
7	SECOND LEVEL DECK				472,500	
8						
9	Build Three New Flex Rooms					
10						
11	New enclosed structure	3,900	SF	325.00	1,267,500	3 new flex rooms on 2nd level deck, connected to existing 2nd level of Bldg. C
12						
13						
14	BUILD THREE NEW FLEX ROOMS				1,267,500	
15						
16	Build Open Pavilion Deck					
17	New open structure, incl cover, pavers, etc	800	SF	180.00	144,000	Create covered pavilion as informal gathering space/group gathering space on 2nd level deck.
19						
20						
21	BUILD OPEN PAVILION DECK				144,000	
22						
23	Solar Energy					
24						
25	Install roof mounted solar arrays	98	KW	4,500.00	441,000	
26						
27						
28	SOLAR ENERGY				441.000	

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MONTA LOMA ELEMENTARY SCHOOL - ESTIMATE DETAIL

EF.	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Project 1 Demo Buildings					
3						
4	Demo existing nine buildings	24,934	SF	5.00	124,670	
5						
6						
7	PROJECT 1 DEMO BUILDINGS				124,670	
8						
9	Project 1 Site Engineering					
10						
11	Site grading, site utilities	313,500	SF	5.00	1,567,500	
12						
13						
14	PROJECT 1 SITE ENGINEERING				1,567,500	
15						
16	Project 1 Site Design/Landscaping					
17						
18	Allow for demolition, clearing and grading	290,470	SF	1.50	435,705	100%
19	New asphalt	87,141	SF	5.00	435,705	30%
20	Concrete	87,141	SF	35.00	3,049,935	30%
21	Landscaping	116,188	SF	18.00	2,091,384	40%
22						
23						
24	PROJECT 1 SITE DESIGN/LANDSCAPING				6,012,729	
25						
26	Project 1 Replace Buildings					
27						
28	New building construction	32,900	SF	550.00	18,095,000	classroom building
29						
30						
31	PROJECT 1 REPLACE BUILDINGS				18,095,000	
32						
33	Solar Energy					
34						
35	Install roof mounted/free standing solar arrays	148	KW	4,500.00	666,000	148kW
16						
7						
88	SOLAR ENERGY				666,000	

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STEVENSON ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Solar Energy					
3						
4	Install roof mounted/free-standing solar arrays	171	KW	4,500.00	769,500	170kVV
5						
6						
7	SOLAR ENERGY				769,500	



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THEUERKAUF ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Solar Energy					
3						
4	Install roof mounted solar arrays	224	KW	4,500.00	1,008,000	224kW
5						
6						
7	SOLAR ENERGY				1,008,000	

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VARGAS ELEMENTARY SCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Solar Energy					
3						
4	Install roof mounted solar arrays	83	KW	4,500.00	373,500	83kW
5						
6						
7	SOLAR ENERGY				373,500	

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CRITTENDEN ELEMENTARY SCHOOL - ESTIMATE DETAIL

PRIC	DRITY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
	Project 1 New Building					
	Allow for clearing and grading	43,400	SF SF	1.50 500.00	65,100	100% admin/MUR/classroom
	New building construction Reconfigure parking/pickup/dropoff	43,400 1	LS	75,000.00	21,700,000 75,000	aumin/mon/classicom
		•		,	,	
•	PROJECT 1 NEW BUILDING				21,840,100	
) 1	Project 1 Demo Buildings					
2	Troject i Bellio Ballanigs					
3	Demo wood framed structures	25,040	SF	7.00	175,280	
4 5						
6	PROJECT 1 DEMO BUILDINGS				175,280	
,	PROJECT I DEMO BOILDINGS				173,200	
3	Project 1 Site Engineering					
9						
•	Site grading, site utilities	189,500	SF	5.00	947,500	
1 2						
3	PROJECT 1 SITE ENGINEERING				947,500	
4						
5	Project 1 Site Design/Landscaping/Improvem	<u>ients</u>				
6	Allow for domolition, clearing and gradies	163,500	SF	1.50	245,250	100%
7 8	Allow for demolition, clearing and grading Asphalt	65,400	SF	5.00	327,000	40%
9	Concrete	65,400	SF	35.00	2,289,000	40%
0	Softscape	32,700	SF	18.00	588,600	20%
12						
3	PROJECT 1 SITE DESIGN/LANDSCAPING/IM	PROVEMENTS			3,449,850	
4	TROCEST FORE DEGICAL POSAL INSTITUT	I KOVEMENTO			0,445,000	
5	Project 2 New Buildings					
6						
7 8	New building construction	33,900	SF	575.00	19,492,500	STEM classroom
39						
0	PROJECT 2 NEW BUILDINGS				19,492,500	
1						
2	Project 2 Demo Building					
4	Demo existing building	17,705	SF	7.00	123,935	
5		,			.20,000	
6						
7	PROJECT 2 DEMO BUILDING				123,935	
8 9	Broject 2 Site Engineering					
i9 50	Project 2 Site Engineering					
51	Site grading, site utilities	46,950	SF	5.00	234,750	
2						
4	PROJECT 2 SITE ENGINEERING				234,750	
5	FROJECT 2 SITE ENGINEERING				234,750	
3	Project 2 Site Design/Landscaping/Improvem	ients				
7						
8	Allow for demolition, clearing and grading	26,600	SF	5.00	133,000	100%
9 0	Concrete Softscape	15,960 10,640	SF SF	35.00 18.00	558,600 191,520	60% 40%
1	ээлэниро	10,040		10.00	101,020	-
2						
	PROJECT 2 SITE DESIGN/LANDSCAPING/IM					

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan SFIP Update November 01, 2019

	DRITY DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
35	Project 3 New Buildings					
16	No. 1. T.P	20.400	SF	FF0 00	14.355.000	
37	New building construction	26,100	SF	550.00	14,355,000	classrooms
68 69						
70	PROJECT 3 NEW BUILDINGS				44 255 000	
	PROJECT 3 NEW BUILDINGS				14,355,000	
71	Product A Donne Building					
72	Project 3 Demo Building					
73	Dono orietion brillian	16.140	SF	7.00	112.980	
74 75	Demo existing building	16, 140	5F	7.00	112,900	
76						
	DDG IFOT A DEMO DUU DING				440.000	
77	PROJECT 3 DEMO BUILDING				112,980	
78						
79	Project 3 Site Engineering					
80						
81	Site grading, site utilities	74,950	SF	5.00	374,750	
82						
83						
84	PROJECT 3 SITE ENGINEERING				374,750	
85						
86	Project 3 Site Design/Landscaping/Improvem	<u>ients</u>				
87						
88	Allow for demolition, clearing and grading	59,300	SF	1.50	88,950	100%
89	Asphalt	23,720	SF	5.00	118,600	40%
90	Concrete	23,720	SF	35.00	830,200	40%
91 92	Softscape	11,860	SF	18.00	213,480	20%
93						
94	PROJECT 3 SITE DESIGN/LANDSCAPING/IM	PROVEMENTS			1,251,230	
95						
96	Solar Energy					
97						
98	Install roof mounted/free standing	381	KW	4,500.00	1,714,500	169kW
99						
100						
101	SOLAR ENERGY				1,714,500	

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Masterplan Budget Plan SFIP Update November 01, 2019

GRAHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

19 20 21 PROJECT 1A NEW BUILDINGS 14,245,000	T/preschool
3 2 2 2 2 2 2 2 2 2	T/preschool
PROJECT 1A DEMO MOT & PORTABLES 40,320	T/preschool
PROJECT 1A DEMO MOT & PORTABLES 40,320	T/preschool
7	T/preschool
8 9	T/preschool
9	T/preschool
11 Site grading, site utilities 82,800 SF 5.00 414,000	T/preschool
12	T/preschool
13	T/preschool
15	T/preschool
16	T/preschool
17 18	T/preschool
18	T/preschool
19 20 21 PROJECT 1A NEW BUILDINGS 14,245,000	
21 PROJECT 1A NEW BUILDINGS 14,245,000 22 23 Project 1A Site Design/Landscaping/Improvements 24 24	
22 23 Project 1A Site Design/Landscaping/Improvements 24	
23 <u>Project 1A Site Design/Landscaping/Improvements</u> 24	
24	
25 Allow for demolition, clearing and grading 67,300 SF 1.50 100,950 1009	
26 Asphalt 13,460 SF 5,00 67,300 20% 27 Concrete 26,920 SF 35,00 942,200 40%	
27 Concrete 26,920 SF 35.00 942,200 40% 28 Softscape 26,920 SF 18.00 484,560 40%	
29	
30	
PROJECT 1A SITE DESIGN/LANDSCAPING/IMPROVEMENTS 1,595,010	
32 33 Project 1B Demo Building	
34	
35 Demo existing 15,220 SF 7.00 106,540	
36 37	
38 PROJECT 1B DEMO BUILDING 106,540	
39	
40 Project 1B Site Engineering	
41	
Site grading, site utilities, site amenities/student 24,800 SF 10.00 248,000 use areas	
43	
44	
45 PROJECT 1B SITE ENGINEERING 248,000	
46 47 Project 1B New Buildings	
47 Project 1B New Buildings 48	
49 New building construction 11,100 SF 550.00 6,105,000 class	srooms
50 51	
52 PROJECT 1B NEW BUILDINGS 6,105,000 53	
53 54 Project 1B New Library In Renovated Bldg	
55	
56 Renovation 4,784 SF 300.00 1,435,200	
57 58	
59 PROJECT 1B NEW LIBRARY IN RENOVATED BLDG 1,435,200	
60	

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan SFIP Update November 01, 2019

GRAHAM ELEMENTARY SCHOOL - ESTIMATE DETAIL

PROJECT 2 SITE FRONTAGE IMPROVEMENTS DESCRIPTION Project 2 DEMO BUILDING Project 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	22.396 140,000	SF SF	7.00 5.00	156,772 156,772 700,000 700,000	COMMENTS
PROJECT 2 DEMO BUILDING Prolect 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Prolect 2 Site Frontage Improvements Expand pickup/dropoff/parking	140,000	SF	5.00	700,000 700,000	
PROJECT 2 DEMO BUILDING Prolect 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Prolect 2 Site Frontage Improvements Expand pickup/dropoff/parking	140,000	SF	5.00	700,000 700,000	
Project 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
Project 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
Project 2 Site Engineering Site grading, site utilities PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
Site grading, site utilities PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
PROJECT 2 SITE ENGINEERING Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	55,000			700,000	
Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	·	SF	23.00		
Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	·	SF	23.00		
Project 2 Site Frontage Improvements Expand pickup/dropoff/parking	·	SF	23.00		
Expand pickup/dropoff/parking	·	SF	23.00	1 265 000	
Expand pickup/dropoff/parking	·	SF	23.00	1 265 000	
	·	SF	23.00	1 265 000	
PROJECT 2 SITE FRONTAGE IMPROVEMENTS				1,200,000	100%
PROJECT 2 SITE FRONTAGE IMPROVEMENTS					
PROJECT 2 SITE FRONTAGE IMPROVEMENTS				4.005.000	
				1,265,000	
Project 2 Site Design/Landscaping/Improvemen	ato.				
FTOJECT 2 Site Design/Landscaping/improvemen	115				
Landscaped courtyards	48,000	SF	18.00	864,000	100%
PROJECT 2 SITE DESIGN/LANDSCAPING/IMPR	OVEMENTS			864,000	
Project 2 New Buildings					
New building construction	8.800	SF	550 00	4.840.000	admin facility
	-,			.,,	
PROJECT 2 NEW BUILDINGS				4,840,000	
Project 2 New Mur/Kitchen/Snack Shack					
Now building construction	11 600	ee.	650.00	7.540.000	Excludes kitchen equipment
New building constituction	11,000	- OF	030.00	7,340,000	Excludes ritchen equipment
				7,540,000	
SHACK					
Project 2 New Classroom Building					
No. 1. 1. 1. 1	10.000	05	FF0 00	7.045.000	
New building construction	13,900	SF	550.00	7,645,000	
PRO IECT 2 NEW CLASSROOM BUILDING				7 645 000	
				.,,	
Solar Energy					
Install roof mounted/free standing solar arrays	347	KW	4,500.00	1,561,500	350kW
OOLAD FAIFDOV				4 504 505	
	PROJECT 2 SITE DESIGN/LANDSCAPING/IMPR Project 2 New Buildings New building construction PROJECT 2 NEW BUILDINGS Project 2 New Mur/Kitchen/Snack Shack New building construction PROJECT 2 NEW MUR/KITCHEN/SNACK SHACK Project 2 New Classroom Building New building construction PROJECT 2 NEW CLASSROOM BUILDING Solar Energy	PROJECT 2 SITE DESIGN/LANDSCAPING/IMPROVEMENTS Project 2 New Buildings New building construction 8,800 PROJECT 2 NEW BUILDINGS Project 2 New Mur/Kitchen/Snack Shack New building construction 11,600 PROJECT 2 NEW MUR/KITCHEN/SNACK SHACK Project 2 New Classroom Building New building construction 13,900 PROJECT 2 NEW CLASSROOM BUILDING Solar Energy Install roof mounted/free standing solar arrays 347	Landscaped courtyards 48,000 SF PROJECT 2 SITE DESIGN/LANDSCAPING/IMPROVEMENTS Project 2 New Buildings New building construction 8,800 SF PROJECT 2 NEW BUILDINGS Project 2 New Mur/Kitchen/Snack Shack New building construction 11,600 SF PROJECT 2 NEW MUR/KITCHEN/SNACK SHACK Project 2 New Classroom Building New building construction 13,900 SF PROJECT 2 NEW CLASSROOM BUILDING Solar Energy Install roof mounted/free standing solar arrays 347 KW	Landscaped courtyards 48,000 SF 18,00 PROJECT 2 SITE DESIGN/LANDSCAPING/IMPROVEMENTS Project 2 New Buildings New building construction 8,800 SF 550,00 PROJECT 2 NEW BUILDINGS Project 2 New Mur/Kitchen/Snack Shack New building construction 11,600 SF 650,00 PROJECT 2 NEW MUR/KITCHEN/SNACK SHACK Project 2 New Classroom Building New building construction 13,900 SF 550,00 PROJECT 2 NEW CLASSROOM BUILDING Solar Energy Install roof mounted/free standing solar arrays 347 KW 4,500,00	Landscaped courtyards

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Masterplan Budget Plan SFIP Update November 01, 2019

MONTECITO PRESCHOOL - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
2	Modernize Portables For Classroom And Office					
3						
4	Modernize portables for new preschool classrooms & office	12,480	SF	160.00	1,996,800	
5						
6						
7	MODERNIZE PORTABLES FOR CLASSROOM	AND OFFICE			1,996,800	
8						
9	Modernize Courtyard					
10						
11	Allow for demolition, clearing and grading	9,400	SF	1.50	14,100	100%
12	Concrete	5,640	SF	35.00	197,400	60%
13	Softscape	3,760	SF	18.00	67,680	40%
14	New Playground/Play Areas	3	LOC	50,000.00	150,000	
15						
16						
17	MODERNIZE COURTYARD				429,180	

Mountain View Whisham School District Student Facilities Improvement Plan Update Mountain View, California



Masterplan Budget Plan SFIP Update November 01, 2019

COOPER - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1						
3	Demo Buildings					
4	Demo existing	9,042	SF	7.00	63,294	
5	Define existing	5,042	OI.	7.00	00,204	
6						
7	DEMO BUILDINGS				63,294	
8						
9	Site Improvements					
10	Allow for domolition, alcoring and grading	124 000	SF	1.50	202.250	100%
11	Allow for demolition, clearing and grading Asphalt	134,900 121,410	SF	5.00	202,350 607,050	100%
13	Softscape	13,490	SF	18.00	242,820	
14						
15						
16	SITE IMPROVEMENTS				1,052,220	
17						
18	New Shop					
20	Newshop (metal, wood weld)	6,700	SF	450.00	3,015,000	Shop facility for metal, wood and welding work. Specialized ventilation to contain airborne particulates/gases. 15' tall. Steel frame structure.
21						
23	NEW SHOP				3,015,000	
24	NEW GHO!				0,010,000	
25	New Warehouse					
26						
27	New warehouse	10,300	SF	100.00	1,030,000	High-bay warehouse, forklitf/light truck accessible, storage racks and oversized items. 25' tall. Steel frame structure.
28						
30	NEW WAREHOUSE				1,030,000	
31	NEW WAREHOUSE				1,000,000	
32	New Admin/Office Building					
33 34	New building	1,800	SF	550.00	990,000	Offices for 4 pns, conference & break rm for 20 pns (2), restrooms/kitchen/lockers/shower. 15' tall. Wood or steel frame structure.
35						
36						
37	NEW ADMIN/OFFICE BUILDING				990,000	
38	New Occased Landaus Facility					
39 40	New Covered Laydown Facility					
41	New covered laydown facility	5,000	SF	175.00	875,000	Open-sided covered structure for
42	New corered laydown facility	3,000	- JF	170.00	0,0,000	material and equipment laydown.
43						
44	NEW COVERED LAYDOWN FACILITY				875,000	
45						
46	Vehicle Laydown					
47						
48 49	Vehicle laydown					See Site improvements
50						
51	VEHICLE LAYDOWN					
52						

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Masterplan Budget Plan SFIP Update November 01, 2019

COOPER - ESTIMATE DETAIL

REF	DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
53	New District Kitchen					
54						
55	New kitchen building	6,400	SF	650.00	4,160,000	Excludes kitchen equipment
56						
57						
58	NEW DISTRICT KITCHEN				4,160,000	
59						
60	Site Improvements					
61						
62	Allow for demolition, clearing and grading	28,800	SF	1.50	43,200	100%
63	Asphalt	28,800	SF	5.00	144,000	
64	Softscape	3,200	SF	18.00	57,600	
65						
66						
67	SITE IMPROVEMENTS				244,800	
68						
69	Solar Energy					
70						
71	Install roof mounted solar arrays	9,200	SF	70.00	644,000	
72						
73						
74	SOLAR ENERGY				644,000	

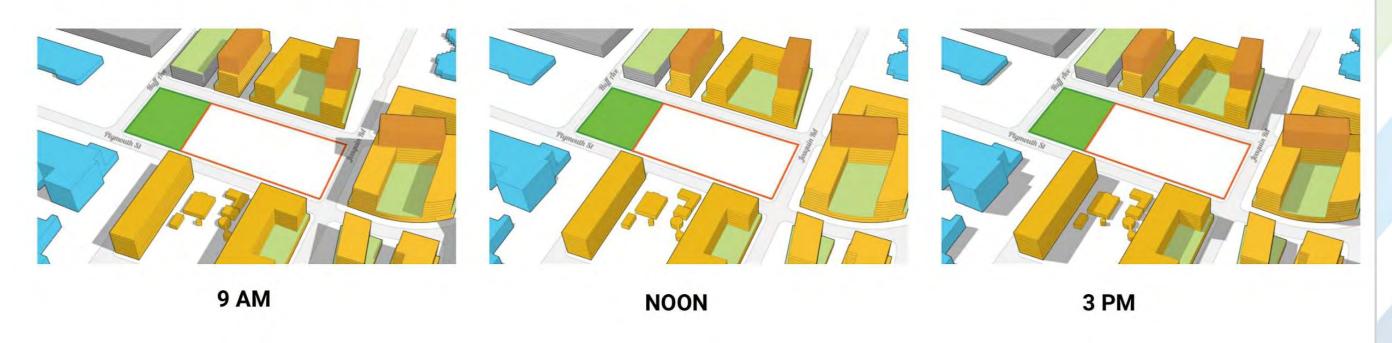


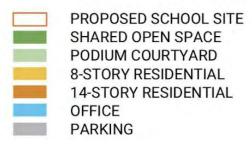


Site Analysis performed by Google

Shadow analysis SUMMER SOLSTICE - JUNE 21

*Updated March 26, 2019 to identify surrounding land use NOTE: Conceptual only, to be further studied by shadow consultant

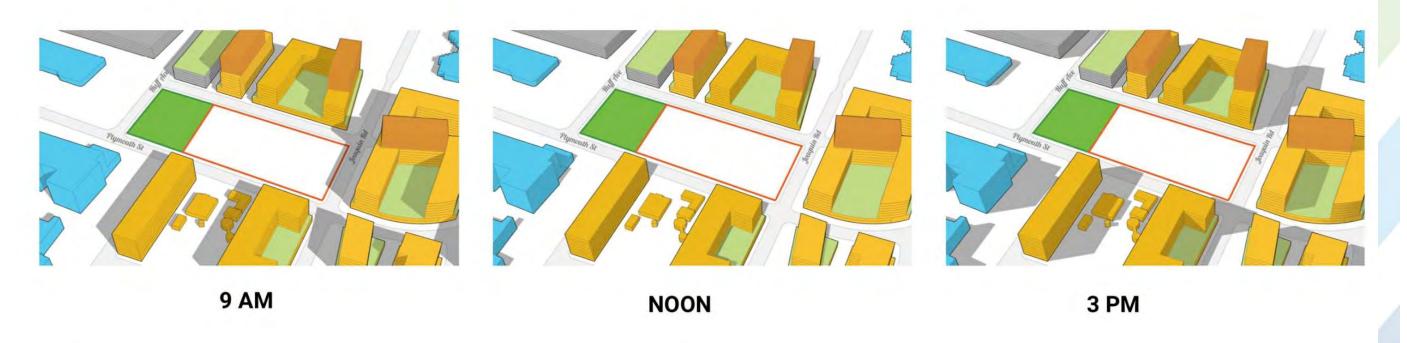


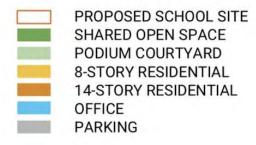


Shadow analysis EQUINOX - SEPTEMBER 23

*Updated March 26, 2019 to identify surrounding land use

NOTE: Conceptual only, to be further studied by shadow consultant



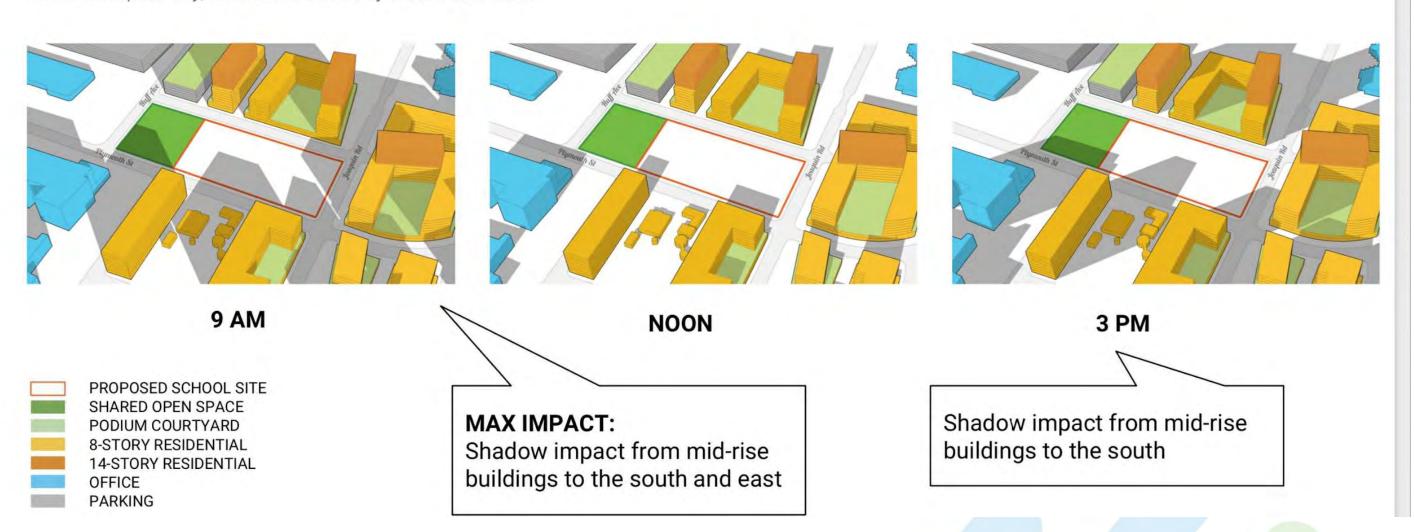


Shadow analysis WINTER SOLSTICE - DECEMBER 21

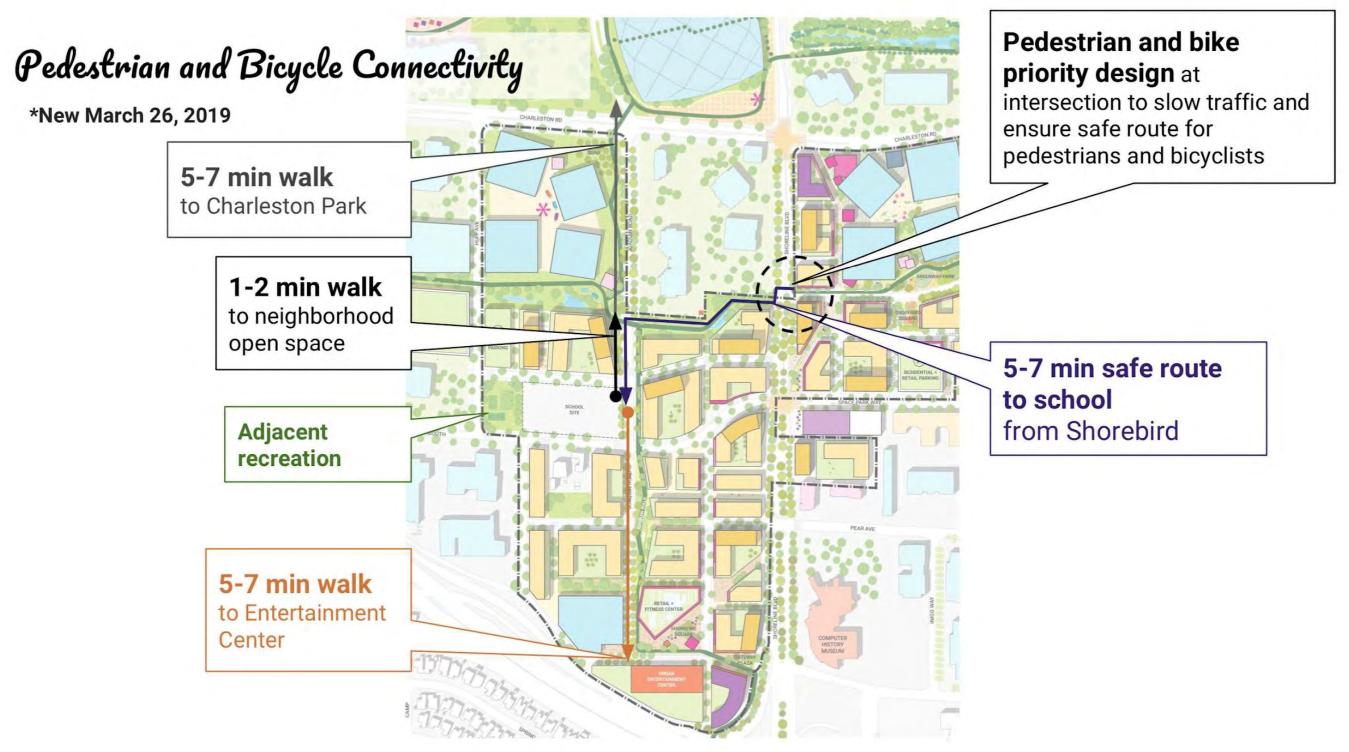
Max impact during potential winter break

*Updated March 26, 2019 to identify surrounding land use

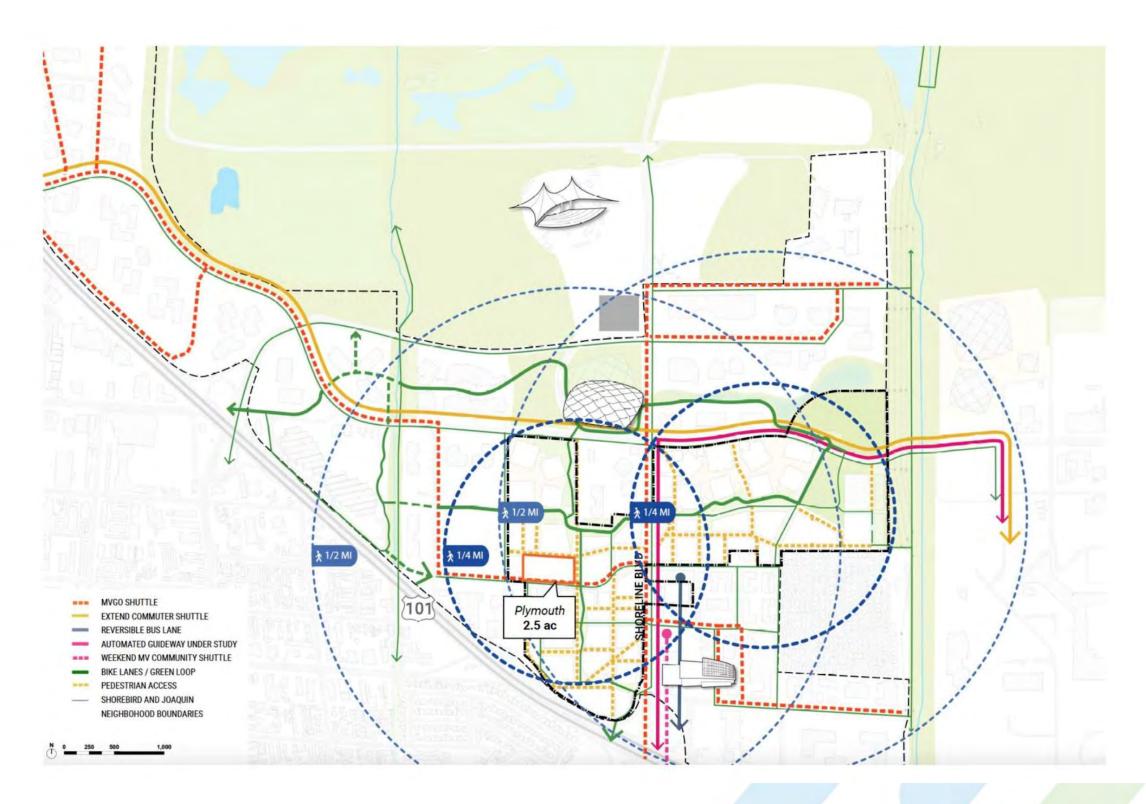
NOTE: Conceptual only, to be further studied by shadow consultant



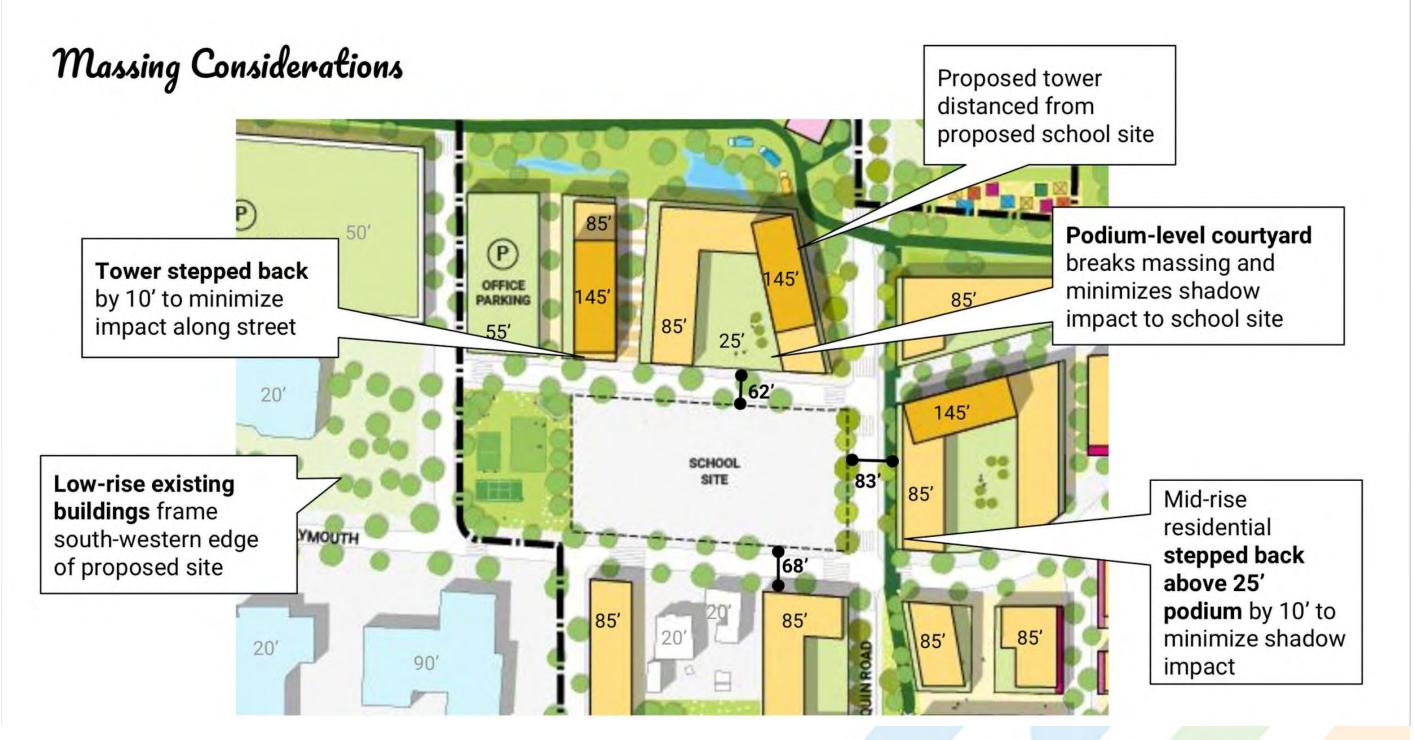
Travel routes



Travel routes



Canyon effect caused by surrounding buildings





Lessons learned



NORTH BAYSHORE MASTER PLAN MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

JEAN PARKER ELEMENTARY SCHOOL (SFUSD) MYWWSD SCHOOL SITE VISITS

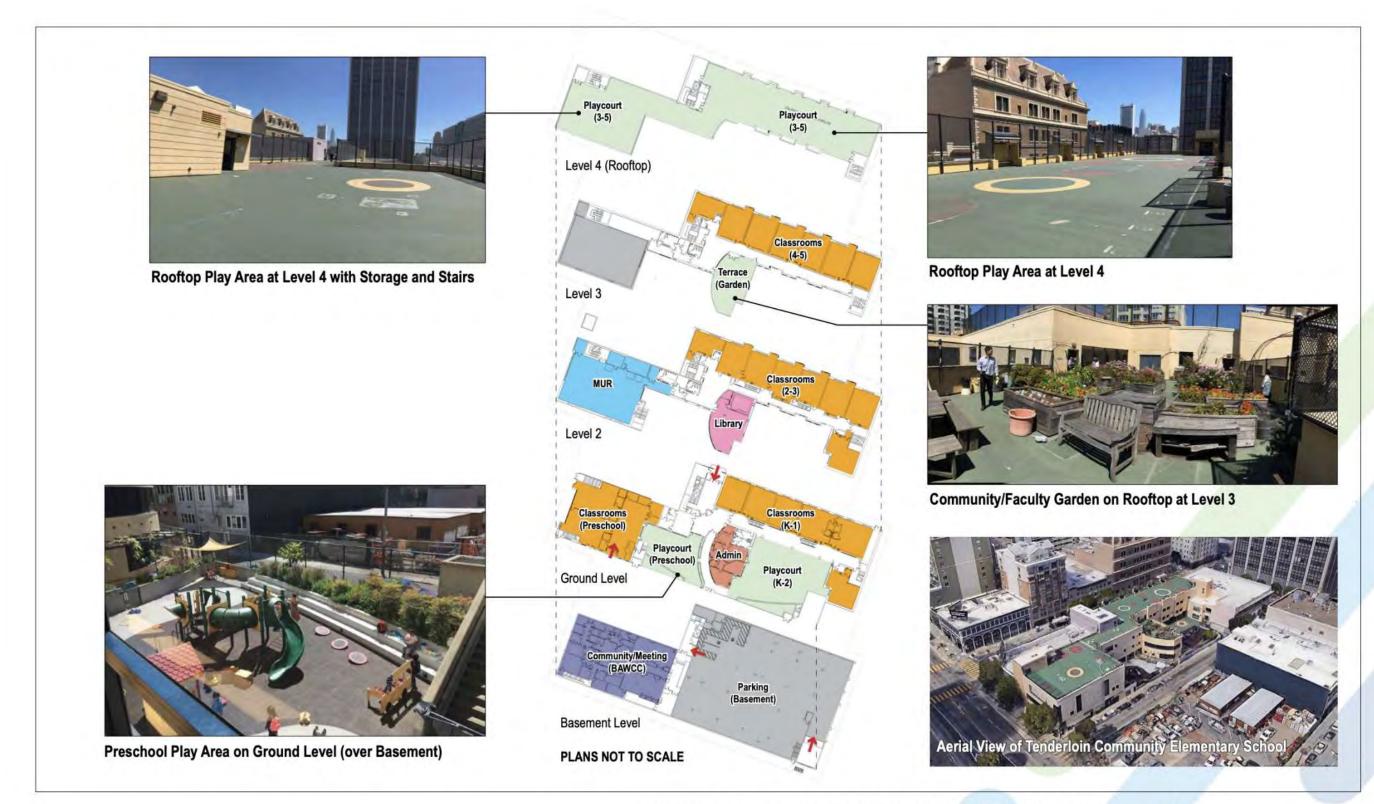
April 2019





Lessons Learned Jean Parker Elementary School

- Provide shared facilities for students on upper levels (e.g., library on 2nd level, rooftop playcourt on 3rd level)
- Provide faculty/admin facilities on upper levels
- Use covered walkways/breezeways along south face of classrooms to shade classroom spaces
- Orient windows in classrooms to the north for natural daylight
- Maximize single-loaded corridors & orient to courtyards
- Create villages/communities on the upper levels



NORTH BAYSHORE MASTER PLAN MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

TENDERLOIN COMMUNITY ELEMENTARY SCHOOL (SFUSD) MYWNSD SCHOOL SITE VISITS

April 2019





Lessons Learned Tenderloin Community Elem. School

- Minimize double-loading corridors
- End long corridors with shared facilities or open spaces
- Minimize south-facing classroom spaces
- Use shade structures and softscape on rooftop play areas
- Provide direct connections between MUR & open play areas
- Provide daylight into interior spaces

Aerial View over North 6th Street/East Santa Clara Street

Aerial View over North 7th Street





NORTH BAYSHORE MASTER PLAN MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

HORACE MANN ELEMENTARY SCHOOL (SJUSD)

MVWSD SCHOOL SITE VISITS

April 2019

Mountain View Whisman School District



Lessons Learned Horace Mann Elementary School

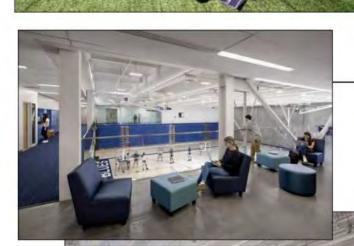
- Provide shared facilities for students on upper levels
 (e.g., library on 2nd level, rooftop playcourt on 3rd level)
- Provide faculty/admin facilities on upper levels
- MUR adjacent to open play areas and outdoor courtyards
- Direct service access to MUR from street
- Multiple controlled campus entrances from street edges
- Curbside pickup/dropoff
- Street trees shade/cool multi-story buildings & open play areas

Rooftop Play Area with Field Turf, Green Roof, and Netting











Aerial View of Urban School of San Francisco Campuses



Upper Level Classrooms and Informal Student Gathering Spaces overlooking Park

Upper Level Informal Student Gathering Spaces overlooking Gym

NORTH BAYSHORE MASTER PLAN MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

URBAN SCHOOL OF SAN FRANCISCO
MVWSD SCHOOL SITE VISITS

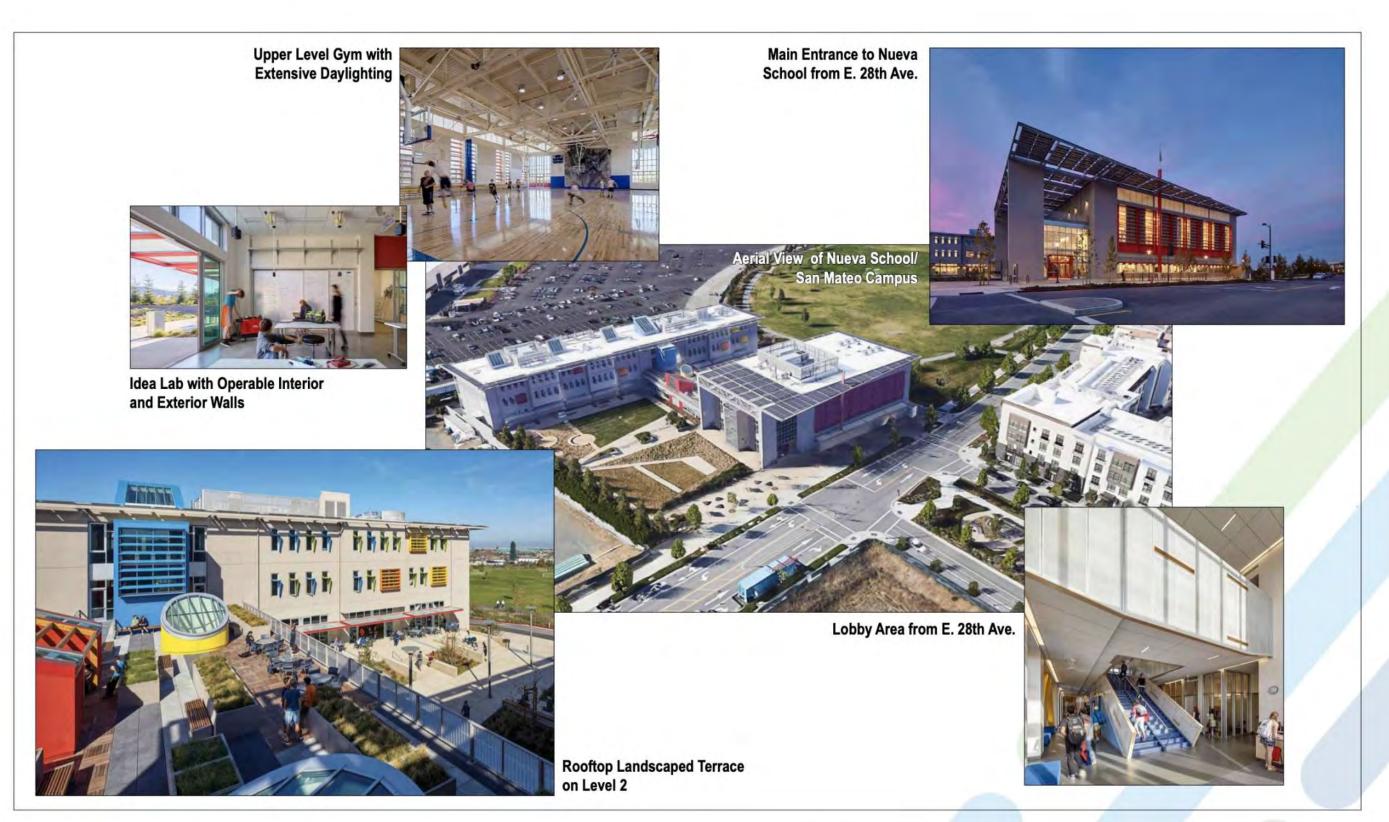
April 2019





Lessons Learned Urban School of San Francisco

- Vary surfaces and furnishings on rooftop play areas (e.g. lawn, benches, gardens, terraces)
- Place trees alongside rooftop play areas to provide shade
- Be creative about rooftop containment fencing/enclosures
- Provide visual connections to exterior landscapes
- Use large, multi-story open spaces to connect upper level spaces
- Provide informal gathering areas on all levels
- Provide indoor/outdoor visual & physical connectivity



NORTH BAYSHORE MASTER PLAN MOUNTAIN VIEW, CA MOUNTAIN VIEW WHISMAN SCHOOL DISTRICT

NUEVA SCHOOL/SAN MATEO CAMPUS MVWSD SCHOOL SITE VISITS

April 2019



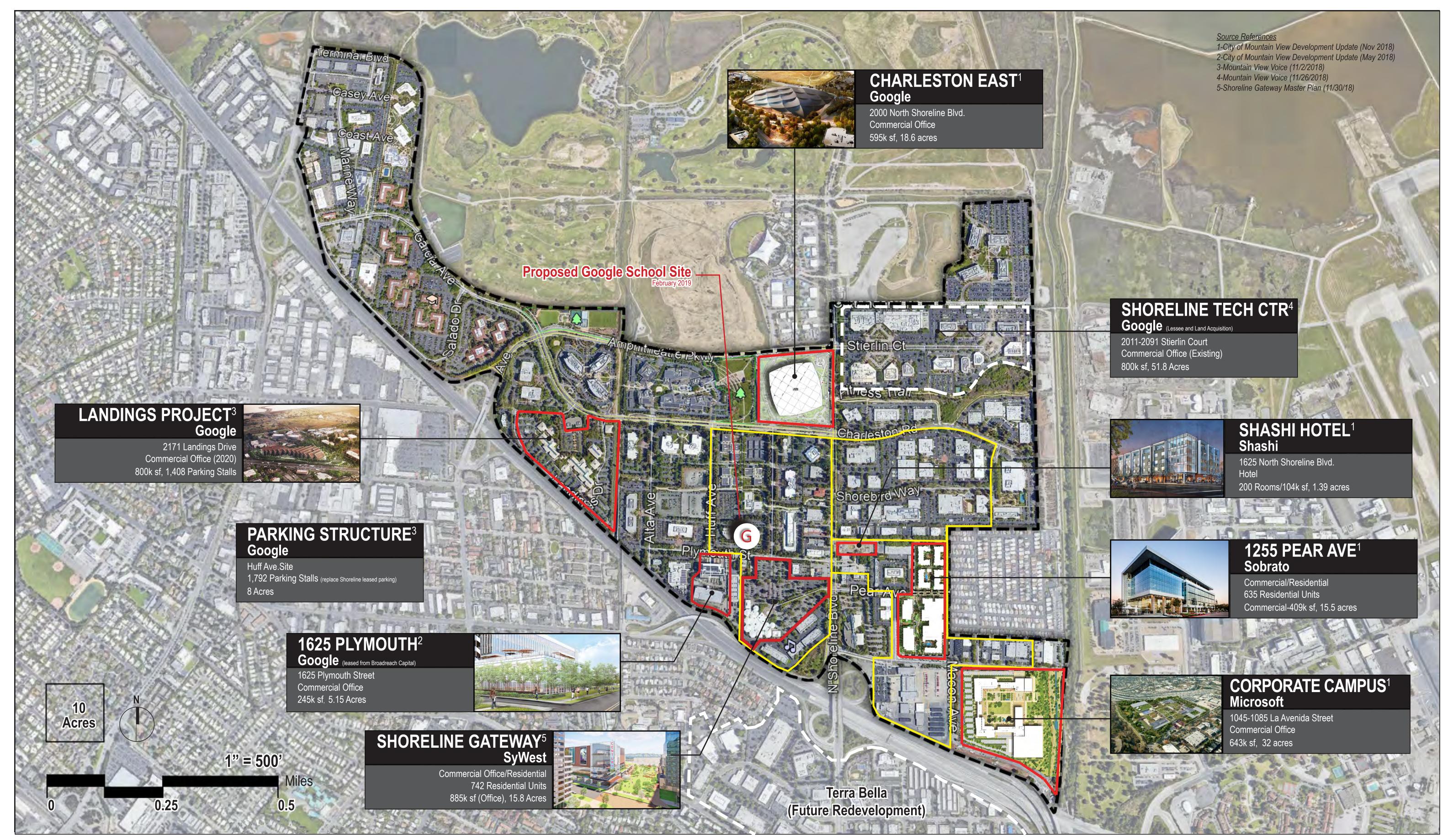


Lessons Learned Nueva School

- Use rooftop terraces/gardens as extensions of interior common areas
- Maximize flexible interior/exterior wall systems to connect spaces

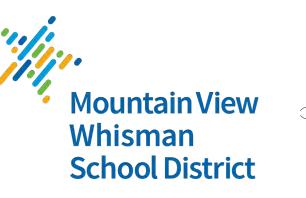


Preliminary Site Concepts

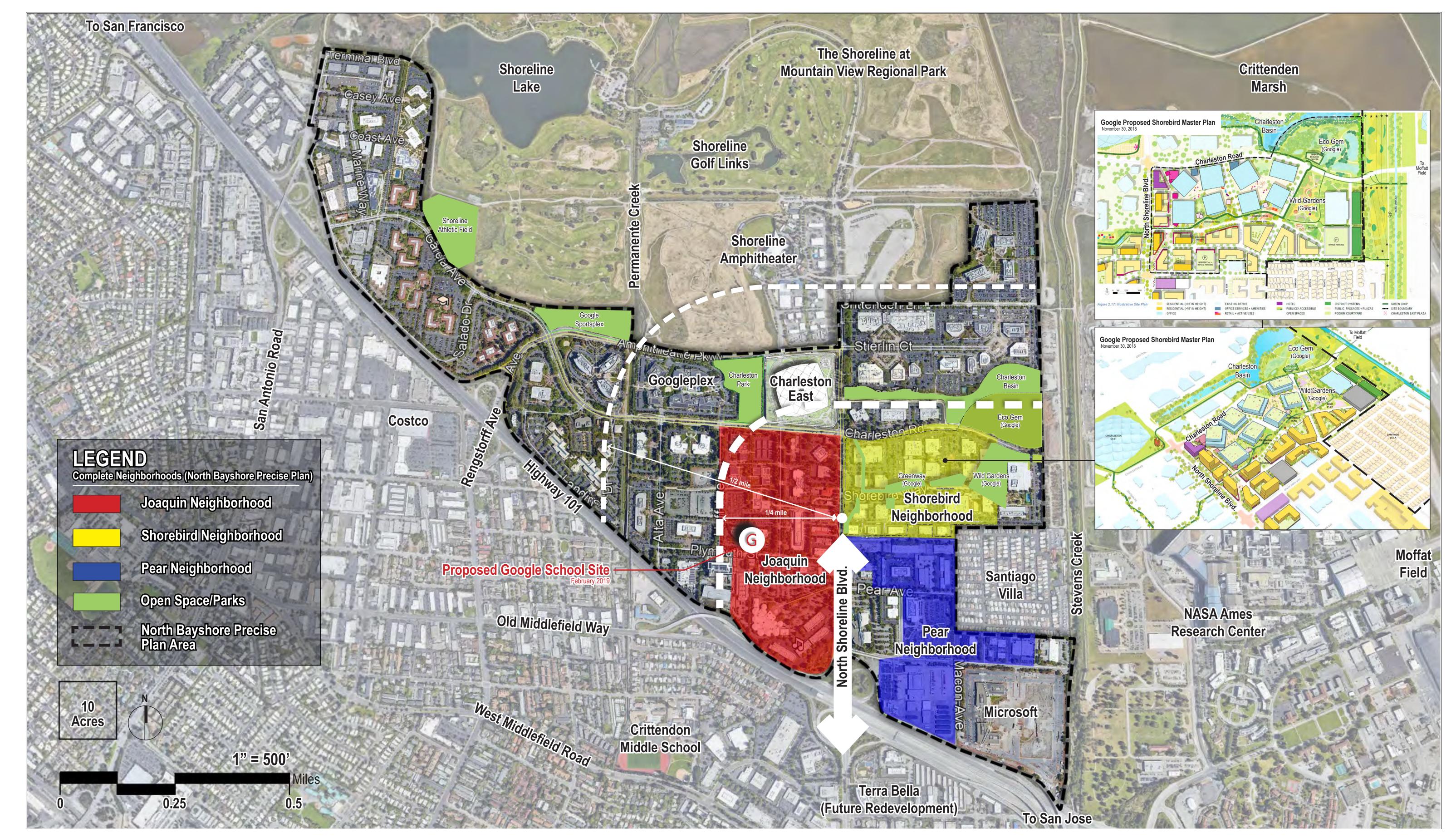






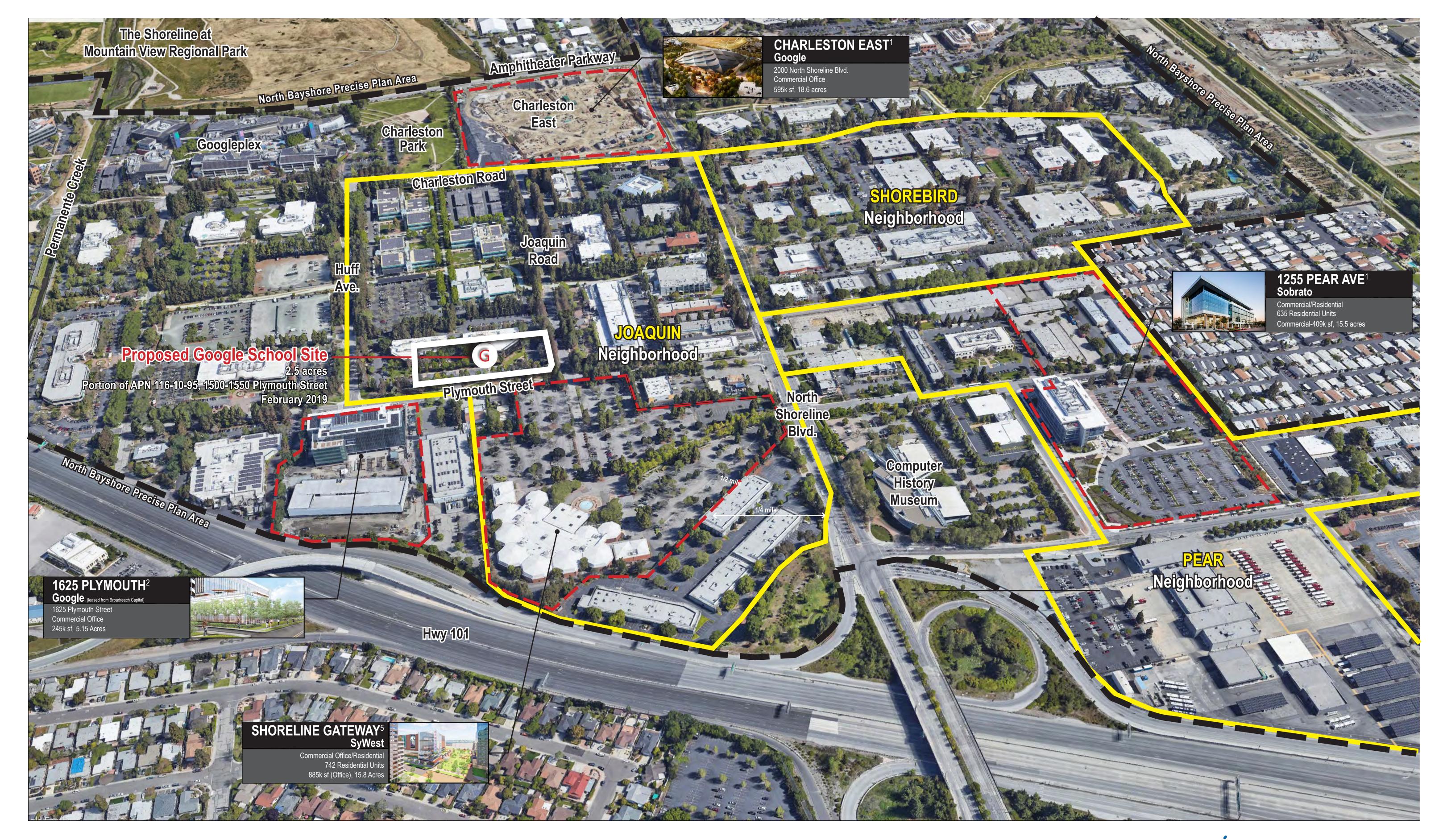


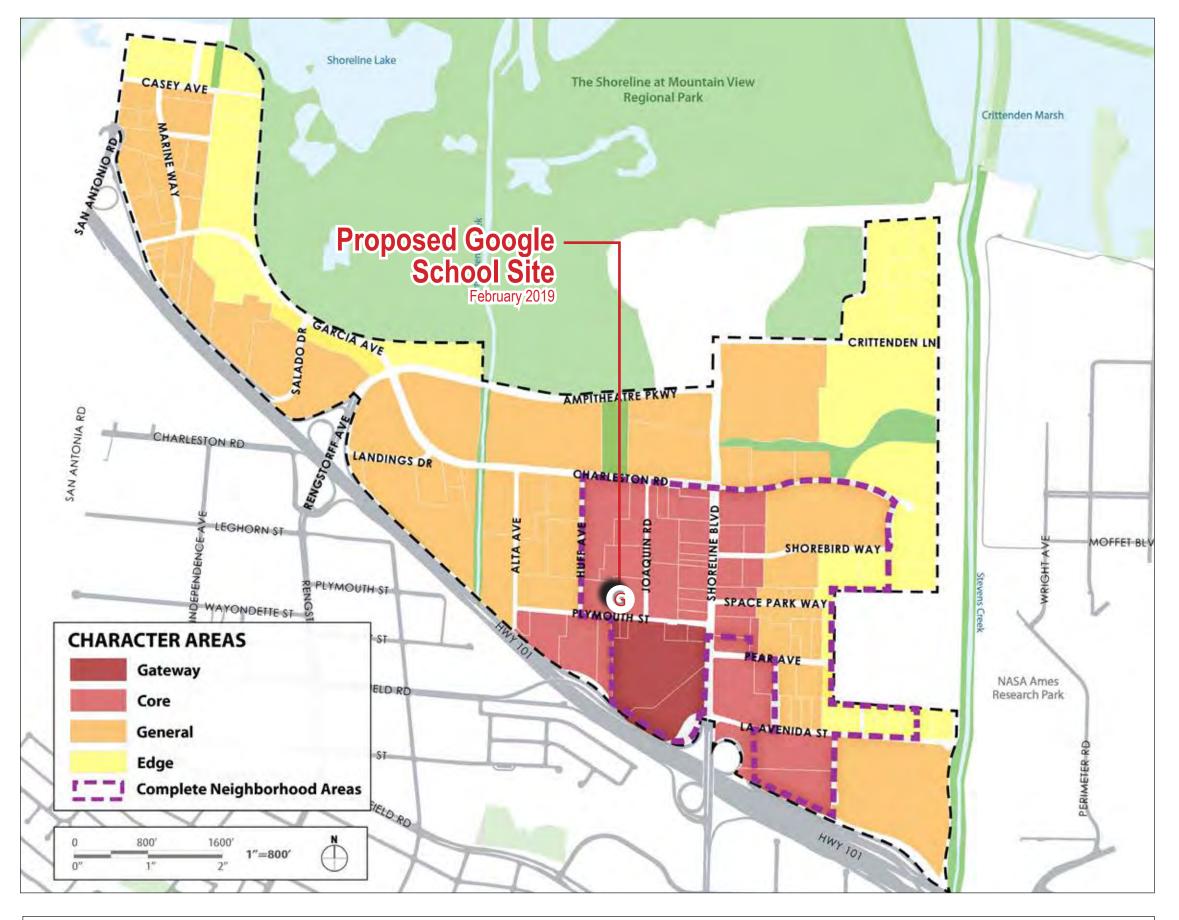












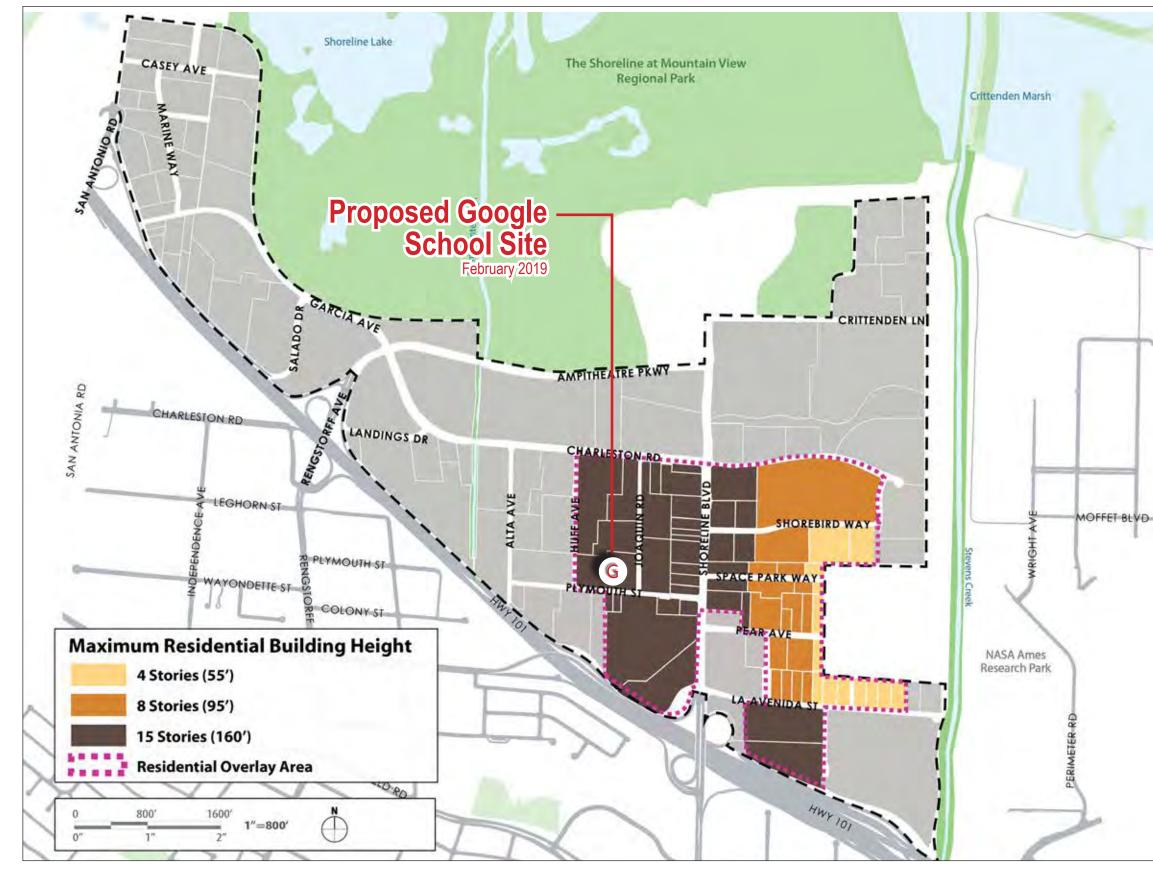


Table 2: Targets for Complete Neighborhood Areas

	JOAQUIN NEIGHBORHOOD	SHOREBIRD NEIGHBORHOOD	PEAR NEIGHBORHOOD
Size	68 acres	43 acres	43 acres
Residential Units*	3,950 units	2,950 units	2,950 units
Affordable Housing Units**	790 units	590 units	590 units
Employment***1	2,500,000 sf	1,500,000 sf	1,000,000 sf
Retail and Entertainment****1	240,000 sf	15,000 sf	35,000 sf
Hotel	200 rooms	0	200 rooms
Public Open Space (minimum)	Community park; Neighborhood park	Neighborhood park	Neighborhood park

^{*}The North Bayshore district has a housing unit mix goal of 40% micro-unit/studios; 30% 1 bedroom units; 20% 2 bedroom units; and 10% 3 bedroom units.

Table 2. Allowed Lond Has Table

USE AND REQUIRED PERMIT	GATEWAY	CORE	GENERAL	EDGE
INDUSTRIAL				
Food products (Food and Beverage)	-	PUP	PUP	PUP
Printing and publishing	-	PUP	PUP	PUP
Wholesaling and distribution (commercial products only)	-	PUP	PUP	PUP
Manufacture, assembly or packaging of products from previously prepared	-	-	PUP	PUP
Manufacture of electric and electronic instruments and devices	-	-	PUP	PUP
Data centers	-	PUP	PUP	PUP
RECREATION, EDUCATION, PUBLIC ASSEMBL	_Y			
Child day-care facilities	PUP	PUP	PUP	PUP
Community assembly	PUP	PUP	PUP	PUP
Community center	PUP	PUP	PUP	PUP
Indoor recreation and fitness centers	Р	Р	PUP	PUP
Libraries and museums	PUP	PUP	PUP	PUP
Outdoor commercial recreation	-	PUP	PUP	PUP
Parks and open spaces	Р	Р	Р	PUP
Private schools	PUP	PUP	PUP	PUP
Schools	PUP	PUP	PUP	PUP
Schools—specialized education and training	PUP	PUP	PUP	PUP
Studios for dance, art, music, photography, martial arts, etc.	PUP	PUP	PUP	PUP
Theaters	PUP	PUP	PUP	PUP
RETAIL TRADE				
Accessory retail uses	Р	Р	PUP	PUP
Bars and drinking places	PUP	PUP	PUP	-
Certified farmer's markets	Р	Р	PUP	-
Grocery stores	PUP	PUP	PUP	-
Liquor stores	PUP	PUP	-	-
Outdoor merchandise and activities	PUP	PUP	-	-
Restaurants serving liquor, with entertainment	PUP	PUP	PUP	-
Restaurants serving liquor, without entertainment	PUP	PUP	PUP	-
Restaurants with or without beer and wine	Р	Р	PUP	-
Restaurants, take-out	Р	Р	PUP	-
Retail stores, general merchandise	Р	Р	PUP	-
Shopping centers	Р	PUP	PUP	-
TRANSPORTATION AND COMMUNICATIONS				
Pipelines and utility lines	Р	Р	P	Р
Transit stations and terminals	PUP	PUP	PUP	PUP
Renewable energy or other energy facility	PUP	Р	Р	Р

USE AND REQUIRED PERMIT	GATEWAY	CORE	GENERAL	EDGE	
RESIDENTIAL					1
Live/work residential	PUP	PUP	PUP	PUP	1
Multiple-family residential	Р	Р	Р	Р	
Rooftop amenities	PUP	PUP	PUP	PUP	
Residential accessory uses and structures	Р	Р	Р	Р	"Residential uses are only
Senior care residential facility	PUP	PUP	PUP	PUP	allowed within Complete
Supportive and transitional residential	Р	Р	Р	Р	Neighorhood areas as sho in Figure 4." (Section 3.3.2
SERVICES					Land Uses, NBPP)
Automatic teller machines (ATMs)	Р	Р	Р	Р	
Banks and financial services	Р	Р	Р	PUP	
Business support services	Р	P	Р	PUP	
Dry cleaning services	Р	P	Р	PUP	
Commercial parking lots	PUP	PUP	PUP	PUP	
Bicycle or pedestrian accessible services	Р	P	Р	PUP	
Hotels	Р	P	-	-	
Medical services—< 3,000 square feet	Р	P	Р	Р	
Medical services—3,000 to 20,000 SF	PUP	PUP	PUP	PUP	
Offices	Р	P	P	Р	
Offices Administrative and executive	Р	P	Р	Р	
Personal services	Р	P	Р	Р	
Public safety and utility facilities	PUP	P	Р	P	
Repair and maintenance—consumer products	Р	Р	Р	Р	
Research and development/light testing and assembly	Р	Р	Р	P	
Storage, accessory	Р	Р	Р	Р	
Warehousing	-	PUP	PUP	PUP	
OTHER USES					
Other uses not named, but similar to listed uses and consistent with the purpose and intent of the Precise Plan.	PUP	PUP	PUP	PUP	

Key to Land Use Permit Requirements	Symbol
Permitted uses, zoning compliance, and Development Review required	Р
Provisional use, Provisional Use Permit Required	PUP
Use not allowed	-

Table 4: Floor Area Ratio Standards

STANDARDS	GAT	EWAY	C	ORE	GEI	NERAL	AL EDGE			
	BASE	MAXIMUM	BASE	MAXIMUM	BASE	MAXIMUM	BASE	MAXIMUM		
Non-Residential Project	1.0	2.35	0.45	1.50	0.45	1.0	0.45	0.65		
Residential Project	1.0	4.50	1.0	4.50	1.0	3.50	1.0	1.85		
Mixed-use Non-Residential and Residential Project	1.0	4.50, with the non- residential area equal to or less than 2.35	1.0	4.50, with the non- residential area equal to or less than 1.5	1.0	3.50, with the non- residential area equal to or less than 1.0	N/A	1.85, with the non- residential area equal to or less than 0.65		
Hotel	1.0	2.35	0.45	1.85	N/A	N/A	N/A	N/A		











Neighorhood areas as shown in Figure 4." (Section 3.3.2,

^{**}Assumes 20% of the residential units are built as affordable.

Gene Yong

From: Gene Yong

Sent: Wednesday, February 20, 2019 4:07 PM

To: 'Ayinde Rudolph Ed.D.'

Cc: 'cghysels@mvwsd.org'; 'Kathi Lilga (klilga@mvwsd.org)'; Bill Gould;

jschreder@jschreder.com; 'Philip J. Henderson'

Subject: CDE-Site Visit Notes to 1500-1550 Plymouth St (Google School Site), 2/20/19

Ayinde,

Please find below some notes from our site visit this morning with Fred Yeager and John Gordon of the CA Dept of Education (School Facilities & Transportation Division).

SITE VISIT SUMMARY

PURPOSE:

CDE site visit and informal review of potential 2.5-acre elementary school site at 1500-1550 Plymouth Street, North Bayshore, City of Mountain View

DATE:

9:30am, Wednesday, 2/20/19

ATTENDEES:

- Artik (attending on behalf of MVWSD): Bill Gould, Gene Yong
- CDE: Fred Yeager (Assistant Director), John Gordon (Field Representative, Santa Clara County)

DISCUSSION NOTES

- 1. Met on the street corner of Plymouth Street and Joaquin Road and walked around the common areas of the site outside the existing office building.
- 2. Based on a quick visual overview, FY/JG did not see any obvious significant concerns with the site.
 - a. Site was far enough from the freeway (i.e., noise impact).
 - b. No obvious overhead utilities in the immediate vicinity of the site.
 - c. Existing activities on the site appeared to be clean (i.e., offices and parking), as well as on adjoining sites.
- 3. FY/JG expressed some concern regarding student pedestrian safety, both on-site and off-site. Priority needs to be in favor of the student pedestrian over vehicular circulation.
 - Pedestrian routes across Shoreline Blvd. will require young children crossing a very heavy vehicular thoroughfare at both AM commuter peak and student arrival peak periods. Traffic observed on Shoreline Blvd. was heavy (2-3 lanes, continuous flow), fast, and incompatible with young children crossing at peak periods.
 - Consider grade-separated crossings across Shoreline Blvd., possibly integrated into mid- and high-rise developments on both sides of Shoreline Blvd.
 - Deconflict/segregate on-site student pedestrian access/entry routes from vehicular pickup/dropoff and parking routes. Minimize crossings.
- 4. With the proposed height of surrounding development, JG commented on the potential for the school to largely be in shadow throughout the day (i.e., shadow cast by neighboring high-rise buildings). This has been an issue at other urban school sites.

- Regarding the dense, mixed-use nature of the planned community, JG/FY highlighted the potential for liquor and drug/marijuana retail establishments in close proximity to the school site. Ultimately will defer to City/State to enforce applicable zoning/licensing restrictions.
- 6. Configuring parking and pickup/drop off may be a challenge, especially if ground level space is at premium and underground parking is not an option (i.e., cost premium, high groundwater table, etc.).
 - a. CDE's typically recommends 2.25 stalls per teaching station (i.e., classroom), but this is a guideline and not a requirement. The school may want to pursue a lower standard considering the close proximity of residential properties. This may be a good shared use opportunity with any future parking facilities on adjoining or nearby redevelopment sites.
- 7. FY/JG referenced a similar new school project SFUSD is proposing in the Mission Bay area. The Mission Bay site is compact/undersized and will feature joint/shared use of some adjoining/nearby facilities (e.g., UCSD open space/park). See attached SFUSD brief of a new PreK-5 elementary school on a 2.2 acre site in Mission Bay (downloaded from the SFUSD website following the site visit). JG will forward a SFUSD contact to Artik.
- 8. FY confirmed that sites can be leased and still access state funds (per OPSC guidlines) if the term of the lease is for at least 40 years.
- 9. FY will be submitting an informal summary of his notes/observations from the site visit.

Let us know if you have any questions or comments.

Thanks.

Gene Yong, AICP

Senior Planner/Senior Project Manager



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F 408.224.9891 gyong@artika3.com

www.ArtikA3.com



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Gene Yong

From: Gene Yong

Sent: Thursday, November 29, 2018 3:18 PM

To: Gene Yong

Cc: Roy Daniel; Sherry Sajadpour

Subject: TelCon Notes-North Bayshore Environmental Issues

TelCon with Kurt Soenen, Cornerstone Earth Group (2:00pm, Thursday, 29 Nov 18):

1. TCE is a major regional concern and priority.

- The Teledyne site, just to the south of Hwy. 101 is the center of one of the most significant TCE releases in the Bay Area. The plume has spread north towards Charleston Road, along the Shoreline Blvd. corridor (covering the area from Permanent Creek to Stevens Creek). Based on a US EPA and State Water Board map, the TCE plume appears to be most concentrated between Shoreline Blvd. and Huff Ave, coinciding with the Joaquin Neighborhood (City's North Bayshore Precise Plan).
- 3. Major concern is potential vapor intrusion from subsurface TCE plumes.
- 4. TCE plumes are migrating with the groundwater. Groundwater is approximately 5 ft. below the surface.
- There are a large number of environmental releases throughout the area, on both sides of North Shoreline Blvd. (between Hwy. 101 and Charleston Road).
- 6. Kurt noted at least a dozen known releases in areas east of Shoreline Blvd.
- 7. The best database for studies would be the Geotracker Database hosted on the State's Water Board website. It has map-based link that can be easily navigated. The majority of documents would be PDF copies of maps and reports.
- 8. The key agencies with oversight on environmental threats/concerns in the area are U.S. EPA and the San Francisco Bay Regional Water Quality Board (Oakland, CA).
- Absent better or more definitive information within any of the three neighborhoods (Joaquin, Pear, Shorebird), we should assume that environmental issues apply.
- 10. Without an environmental consultant on the team, it may e difficult to get a simple overview that credibly and comprehensively maps and defines the environmental threats in the study area.
- 11. Consider approaching City of Mountain View or Google to see if either has a good overview of the study area.

Gene

From: Gene Yong

Sent: Tuesday, November 27, 2018 10:02 AM

To: 'Kurt M. Soenen' < ksoenen@cornerstoneearth.com >

Cc: Sherry Sajadpour <<u>ssajadpour@artika3.com</u>>; Roy Daniel <<u>rdaniel@artika3.com</u>>; Danh Tran

<dtran@cornerstoneearth.com>

Subject: RE: plumes in North Bayshore

Thanks Kurt. We'll plan to call you at 2:00pm on Thursday (11/29).

From: Kurt M. Soenen <ksoenen@cornerstoneearth.com>

Sent: Tuesday, November 27, 2018 9:56 AM

To: Gene Yong <gyong@artika3.com>

Cc: Sherry Sajadpour <ssajadpour@artika3.com>; Roy Daniel <rdaniel@artika3.com>; Danh Tran

<dtran@cornerstoneearth.com>

Subject: RE: plumes in North Bayshore

Hi Gene -

1

11/20/2018

EPA sets sights on TCE vapor intrusion | News | Mountain View Online |

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EPA sets sights on TCE vapor intrusion

New cleanup plan focuses on airborne toxic chemical from city's polluted groundwater

Town Square

by Mark Noack / Mountain View Voice

The U.S. Environmental Protection Agency plans to strengthen cleanup regulations for airborne toxins along a contaminated area covering much of Mountain View's North Bayshore.

In a public meeting last month, EPA officials presented plans to update their cleanup strategy for the Teledyne/Spectra Physics Superfund site, which extends north of the city's Rex Manor neighborhood up into the western side of North Bayshore.

Like Mountain View's other contaminated areas, underground aquifers along the Teledyne site are polluted with trichloroethylene (TCE), an industrial degreaser used in the area's bygone semiconductor industry. Since the early 1990s, the companies responsible for the pollution have been tasked with treating the groundwater to remove traces of TCE, which is known to cause cancer.

In recent years, EPA officials have acknowledged TCE can also present public health risks if it evaporates and becomes airborne. These airborne toxins are considered particularly harmful if they accumulate inside buildings, especially homes or offices where people could be spending prolonged periods of time. Pregnant women, particularly during the first trimester, are considered especially vulnerable to even short-term exposure.

This so-called vapor intrusion would be a new focus for EPA officials, but they pointed out they have already been monitoring it. Since around 2015, about 45 homes in the area have been sampled, some of which needed fixes to their ventilation systems to ensure harmful compounds weren't

building up, said Angela Sandoval, EPA project manager. In some cases, homes were found to have cracks in their foundation slabs, allowing the contaminated vapors to seep inside.

Previously, EPA officials were consulted by the city of Mountain View whenever new construction or remodel projects were proposed within the Superfund zone. EPA officials would lend advice on how to reduce exposure risk, although this step was never explicitly included in the Superfund guidelines. Under the new deanup standards, this vapor intrusion review would be formalized as part of the cleanup plan.

The updated cleanup plan would also emphasize bioremediation, which involves injecting fortified microbes into the groundwater to break down hazardous compounds into harmless byproducts. EPA officials said past trials of bioremediation in the North Bayshore area showed a dramatic reduction in TCE, going from 300 parts-per-billion to four parts-per-billion within a few years.

For about 20 years, the cleanup effort had instead focused on pumping and treating the groundwater, but this was later found to be largely ineffective. Simply leaving the pollution in the ground and letting it naturally break down was found to be just as effective, according to EPA officials.

Print Edition TOP BLOGS

Salt & Straw Palo Alto to open Nov. 23

By Elena Kadyany I 0 comments I 4.130 views

Lakes and Larders (part 2)

By Laura Stec | 0 comments | 1,419 views

View all local blogs



The trichloroethylene plume of the Teledyne/Spectra Physics Superfund site, shown in pink, encompasses large sections of Mountain View's North Bayshore. EPA officials are revising their cleanup standards with a new focus on airborne toxins. Map provided by EPA



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COLI BAN Lear

https://mv-voice.com/news/2018/06/08/epa-sets-sights-on-tce-vapor-intrusion

1/2

Mountain View's municipal drinking water comes mainly from Hetch Hetchy and does not draw upon local

Sandoval emphasized that the EPA cleanup plan was showing real promise to someday restore the groundwater, possibly someday bringing it to federal drinking water standards.

"Our cleanup plan has the potential to reduce the cleanup time frame from hundreds of years to decades," she said. "These remedies have been proven to be very effective."

More information on the new proposed guidelines can be found at the EPA website.

Comments

Sorry, but further commenting on this topic has been closed.







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North Bayshore Master Plan

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Y SCHOOL FACILITIE	ES PROGRAM																	
TK-Gr 5																		
684 students ¹																		¹ Jack Schreder & Associates NBPP Student Generation excluding Sob
2.5 acres ²																		² Google Proposed School Site @ 1500-1550 Plymouth Street; per me
		PARI	KING			Enrollr	ment/Occu	ipancy					AREA	·		·		
		Sub-	Unit	Sub-	Total	Class Size	Sub-Total	Total	Length	Width	Net	Sub-Total			Gross	Sub-Total	TOTAL Notes	References
						stu/unit	ctu	ctu	ft	ft	cf	(net)	(net)		cf			
					1	Stay anne	514						45.254		3.	31		CDE Title V standards is minimum of 59 sf/stu (assumed to be net).
ASSROOMS			, .		-													
тк-к													,				,	
	Classrooms	18.0	2.25	8		24	192		45	30	1,350	10,800		1.35	1,823	14,580	MVWSD Standard: 24 stu/classroom.	CDE Guide to School Site Analysis & Development (2000)
Teach	ner Work Area	-		-		-	-		-	-	-	See Notes			-	See Notes	Included in classroom area	Locate workrooms/storage between pairs of classrooms
	Storage	-		-		-	-		-	-	-	See Notes			-	See Notes	Included in classroom area	
	Restrooms	-		-		-	-		-	-	-	See Notes			-	See Notes	Included in classroom area	
Grades 1-3: Classr	rooms	-																
	Classrooms	27.0	2.25	12		24	288		32	30	960	11,520		1.35	1,296	15,552	MVWSD Standard: 24 stu/classroom	CDE Guide to School Site Analysis & Development (2000) Per 2009-SFPS, square-shaped classrooms
Small Group Bre	eak Out Room	-		6					14	10	140	See Notes			-	See Notes	1 for every 2 classrooms, nsf in classroom area	2009-SFPS Program Standard
		-		-		-	-		-	-	-	See Notes			-	See Notes	Included in classroom area	
	Storage	-		6		-	-		10	6	60	360		1.35	81	486		2009-SFPS Program Standard
	Restrooms	-		2		-	-		24	8	192	384		1.35	259	518	1-B, 1-G, assume 3-T/2-U/4-L for boys, 5-T/4-L for girls	CDE-CPC/K-12 Toilet Requirements
		-																
Grades 4-5		-																
	Classrooms	13.5	2.25	6		32	192		32	30	960	5,760		1.35	1,296	7,776	MVWSD Standard: 32 stu/classroom	CDE Guide to School Site Analysis & Development (2000) Per 2009-SFPS, square-shaped classrooms
Small Group Bre	eak Out Room	-		3					14	10	140	See Notes			-	See Notes	1 for every 2 classrooms, nsf in classroom area	2009-SFPS Program Standard
Teach	ner Work Area	-		-		-	-		-	-	-	See Notes			-	See Notes	Included in classroom area	
	Storage	-		3		-	-		10	6	60	180		1.35	81	243		2009-SFPS Program Standard
	Restrooms	-		2		-	-		18	8	144	288		1.35	194	389	1-B, 1-G, assume 2-T/1-U/3-L for boys, 4-T/3-L for girls	CDE-CPC/K-12 Toilet Requirements
		-																
													2,200				2,970	
Flex Rooms	Classrooms			2					37	30	1.100	2.200		1.35	1.485	2.970		te 2009-SFPS Program Standard
Tb				_								·		2.00				
reacr										-								
	Storage			-		-	-		-	-	-	See Notes			-	See Notes	included in classroom area	
DIA CENTER		-										-	2,888				3,899 House, circulate, centralized distribution o school's information resources/equipment used in school's curriculum.	
	Main Library	-		1					64	30	1,920	1,920		1.35	2,592	2,592	2x classroom sf. Reading areas, stacks, study areas.	
Media Center/0	-	-		1					24	20	480	480		1.35	648	648	0.5x classroom sf. Computer stations, catalog stations, small group/facilitated learning activities.	
Circulation/Sta	aff Work Area	-		1					17	14	240	240		1.35	324	324	0.25 x classroom sf. Circulation counter, work tables, low shelving, staging/sorting area for materials	
	Storage	-		1					20	10	200	200		1.35	270	270	Video equipment	
S	Staff restroom	-		1					8	6	48	48		1.35	65	65	Single occupancy	
R	SSROOMS TK-K Grades 1-3: Classi Small Group Bri Teach Grades 4-5 Small Group Bri Teach Teach ROGRAM Flex Rooms Teach Circulation/St	ASSROOMS TK-K Classrooms Teacher Work Area Storage Restrooms Grades 1-3: Classrooms Classrooms Small Group Break Out Room Teacher Work Area Storage Restrooms Grades 4-5 Classrooms Small Group Break Out Room Teacher Work Area Storage Restrooms Classrooms Grades 4-5 Classrooms Classrooms Classrooms Classrooms Teacher Work Area Storage Restrooms Classrooms Teacher Work Area Storage Restrooms Classrooms Classrooms	### Company of Company	TK-Gr 5	TK-Gr 5 684 students¹ 2.5 acres² PARKING Sub- Total Sub- Total Criteria No. Stalls CDE No. No. No. Stalls CDE No. No. No. Stalls CDE No. Storage Companies Compa	TK-Gr 5	TK-Gr 5	TK-Gr 5 684 students¹ 2.5 acres³ PAR-ING	TK-Gr 5 S84 students Sub-	TK-Gr 5 S684 students' S2.5 acroes' S94	TK-GF 5 684 sudents¹ 2.5 acres²	TK-GS	TK-Gr 5 Mathematical Mathematic	TK-GF 5 684 students'	TK-GF Searce	TK-GF 5	TK-GF 5 PARI	No. No.

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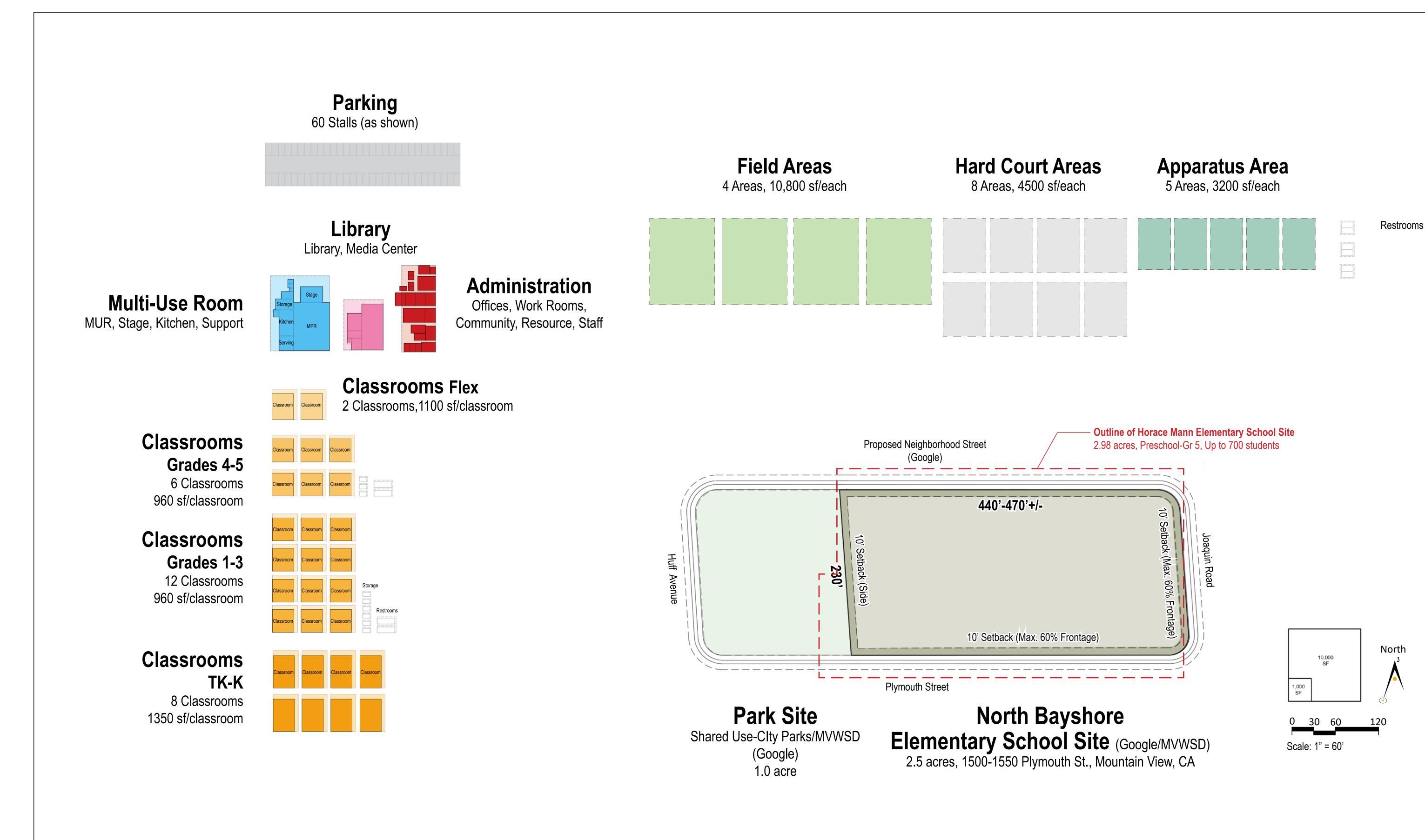
ELEMENTARY SCHOOL FACILITIES PROGRAM																
Grades: TK-Gr 5																
Enrollment: 684 students ¹																¹ Jack Schreder & Associates NBPP Student Generation excluding Sobra
Site Area: 2.5 acres ²																² Google Proposed School Site @ 1500-1550 Plymouth Street; per mee
	DAD	RKING	Nu	mber	Farallment/Occ						AREA	<u> </u>				
	PAR	KKING	of t	Units	Enrollment/Occu	ирапсу					AKEA					
	Sub-	Unit	Sub-	Total	Class Size Sub-Total	Total	Length	Width	Net	Sub-Total	TOTAL Ne	et-to-	ross	Sub-Total	TOTAL Notes	References
	Total	Criteria	Total	Total	Cluss Size Sub Total	Total	Length	Width		(net)	(net) Gi	ross	.033	(Gross)	(gross)	References
	Stalls	CDE	No.		stu/unit stu	stu	ft	ft	sf		ns	f x s	sf	sf	sf	
MULTIPURPOSE ROOM (MPR) AND WARMING	KITCHEN	٧									5,926				8,605 Accessible to parking and playfields/playcourts	
Multi-Purpose Space	-		1				67	50	3,360	3,360		1.35 4,	1,536	4,536	Sufficent space for entire school, seated style (5 sf/pn, equal to CBC 1004.1.2-Standing)	
															Equal to seated area for 1 full grade (assumed to be music). Net-to-	
Stage	-		1				31	22	672	672		2.25 1,	l,512	1,512	Gross includes additional 8'-10' on stage wings/back for	
															staging/support areas. Refrigerated storage, limited warming facilities, cleaning/sinks, light	
Kitchen	-		1				36	20	725	725		1.35	979	979	prep, work tables/counters. Accessible to service driveways, garbage	Size per SRCS ESMS Ed Spec (500-750 students)
															areas	
Serving Area	_		1				21	20	420	420		1.35	567	567	Adjacent to kitchen, may include serving table, separate from multi- purpose space. 1-hot unit line, 1-cold unit line. Area can be float for	
Serving Area							21	20	420	720		1.55	307	307	overflow from main space.	
Storage (multi-purpose)	-		1				25	15	375	375		1.35	506	506	Store seats, tables	
Storage (stage)	-		1				17	10	168	168		1.35	227	227	0.25x stage area. Store stage A-V equipment, instruments, props, materials	
Storage (kitchen)	_		1				10	8	80	80		1.35	108	108	Dry storage room. Store movable courts, equipment)	
Storage (custodial)	-		1				6	5	30			1.35	41	41	Cleaning equipment/materials	
Restrooms	-		2				8	6	48	96		1.35	65	130	2-single occupancy	
	-															
ADMINISTRATION	-										4,180				5,643	
Reception	-														Assume 4 secretary 4 short and asses for 4 additional	
Workstation	-		3				12	8	96	288		1.35	130	389	Assume 1 secretary, 1 clerk and space for 1 add'l staff (permanent/interim).	
Seating Area	-		1				20	14	280	280		1.35	378	378	Assume seating for 6-8 people	
Offices	-									-						
Principal	-		1				20	12	240				324	324	Large enough to hold private meetings for 4 pns at table	
Assistant Principal	-		1				16	10	160				216	216	Large enough to hold private meetings with 2 pns at desk	
Conference Room Faculty/Staff Facilities	-		1				20	14	280	280		1.35	378	378	Adjacent to principal's office, 10-12 pns	
	-									<u>-</u>					Near reception and offices, copy/print area, layout/work area, work	
Collaborative Work Space	-		1				20	15	300	300		1.35	405	405	stations	
Staff Lounge			1				30	20	600	600		1.35	810	810	Next to staff work space, next to break room, seating/dining for 15-2 adjacent to private staff patio. Light kitchen facilities (refrigerator,	0,
Staff Lourige	_		1				30	20	000	800		1.55	810	810	microwave, dishwasher, coffee)	
Student Support Programs/Spec	-									-						
D			_				4.0	4.	252	4 000		1.25	240	4 364	Program offices, resource specialists, special needs, testing,	
Resource Work Rooms/Offices	-		4				18	14	252	1,008		1.35	340	1,361	counseling/intervention, small group instruction, 10-12 students.	
Family Center	-									-						
Work Area	-		1				25	20	500	500		1.35	675	675	Community/Parent/Volunteer work area	
Health Services	-									-						
Health Room	-		1				16		192				259	259	Include space for beds, sink	
Health Office	-		1				10	8	80			1.35	108	108	1 Health Staffperson	
Support Area	-									-					Single-occupancy, ADA compliant, 1-near health room & 1-near famil	v.
Restrooms	-		2				8	6	48	96		1.35	65	130	center	7
Storage	_		2				8	6	48	96		1.35	65	130	1 near break room	
Utilities Room-IT/Tech	_						10		60			1.35			1 near reception work area/executive offices	
Othlities Room-11/Tech	-		1	•			10	Ö	00	60		1.33	81	81	Servers	

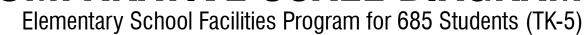
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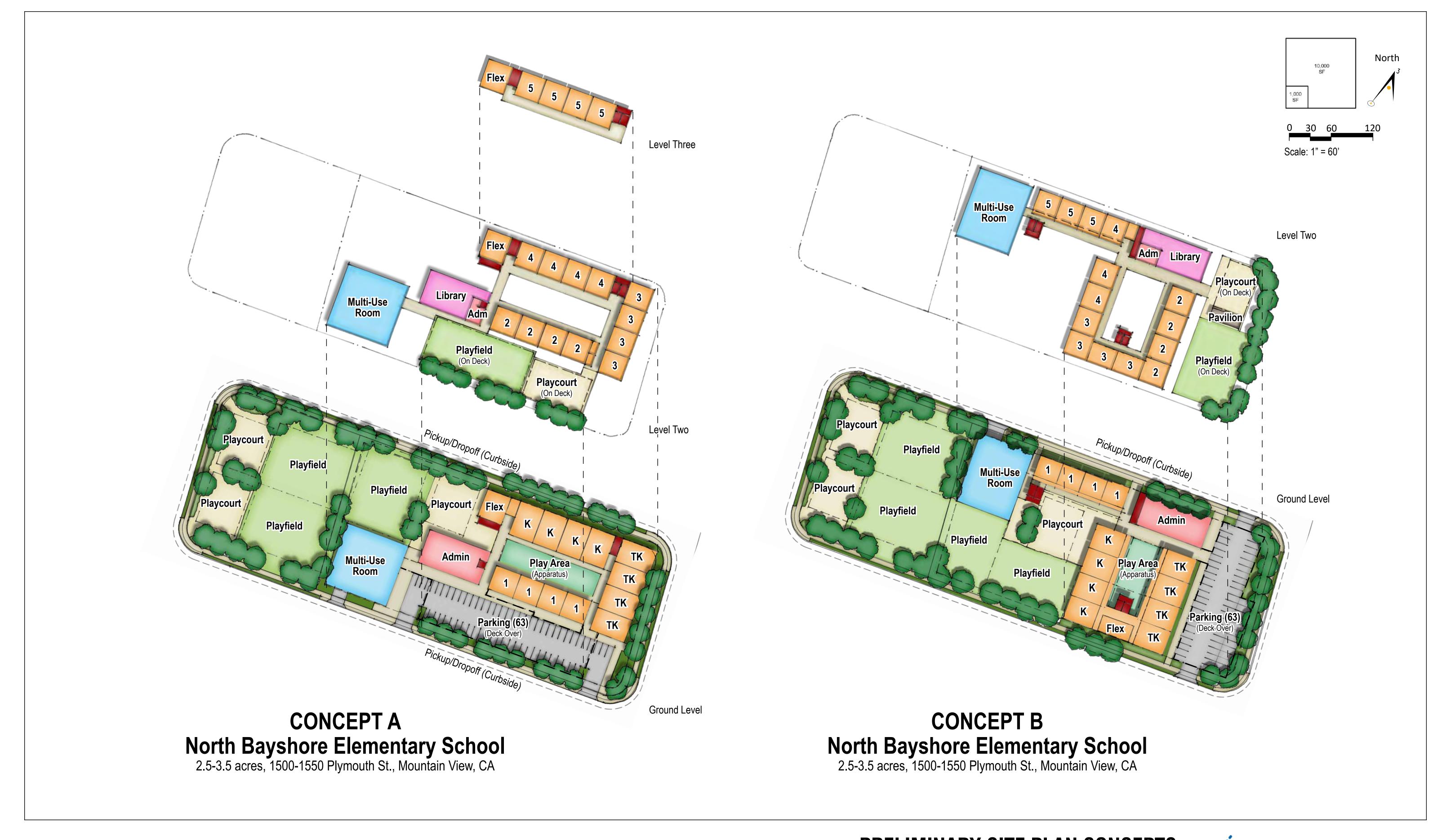
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Site Area:	2.5 acres ²																	² Google Proposed School Site @ 1500-1550 Plymouth Street; per
			PAR	KING		mber Units	En	nrollment/Occ	cupancy					AREA				
			Sub- Total	Unit Criteria	Sub- Total	Total	Class Si	ize Sub-Tota	l Total	Length	Width	Net	Sub-Total (net)	TOTAL (net)	Net-to- Gross	Gross	Sub-Total (Gross)	TOTAL (gross) References
			Stalls	CDE	No.		stu/uni	it stu	stu	ft	ft	sf			nsf x	sf	sf	sf
OTHER			-															
	Restrooms for Out	tdoor Areas	-											768				1,037
	Restroor	ms-Field Area	-		2					16	8	128	256		1.35	173	346	1-boys/1-girls. May be attached to building, orient to field area
	Restrooms-Ha	ardcourt Area	-		2					16	8	128	256		1.35	173	346	1-boys/1-girls. May be attached to building, orient to field area
	Restrooms-Ap	oparatus Area	-		2					16	8	128	256		1.35	173	346	1-boys/1-girls. May be attached to building, orient to field area
OUTDOOR /	AREAS																	
	Field Area																	
		Playfields			4					120	90	10,800	43,200		1.10	11,880	47,520	Per CDE Guide, field is for most "Games" activities (group games: tag, running, ball games, track & field ;individual/dual games). CDE Guide to School Site Analysis & Development (2000)-For enrollment of 451-600
	Hardcourt Area																	
		Hardcourts			8					75	60	4,500	36,000		1.10	4,950	39,600	Per CDE Guide, hard courts are for most "Rhythm" activities (skills, creative, dancing, singing games). CDE Guide to School Site Analysis & Development (2000)-For enrollment of 451-600
	Apparatus Area																	
	Арр	paratus Areas			5					71	45	3,200	16,000		1.10	3,520	17,600	Per CDE Guide, apparatus areas are for most Climbing/Tumbling/ Gymnastics- type "Activities" (rolling, balancing, climbing, swinging, balancing, hanging, pushing/pulling).









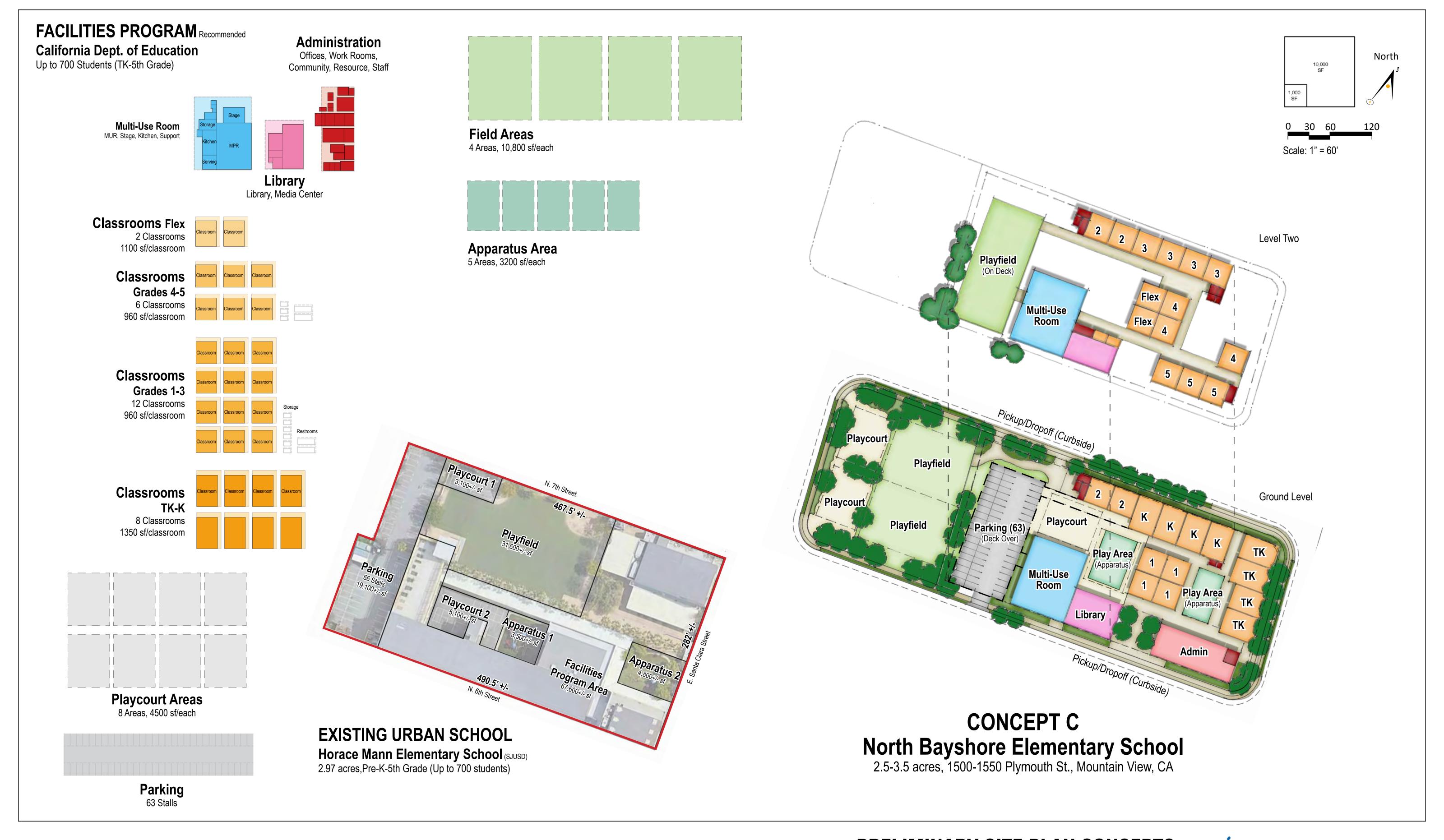




May 15, 2019









May 15, 2019







Preliminary Scope Options May 31st, 2019

North Bayshore Masterplan

New Elementary School

Based on review & analysis of:

Preliminary Scope Options

Report Prepared for:

Artik Art & Architecture

May 31st, 2019

more value, less risk www.tbdconsultants.com 111 Pine St, Suite 1315 | San Francisco | CA | 94111 TEL: (415) 981-9430 | FAX: (415) 941-9434 SAN FRANCISCO | LOS ALTOS | SACRAMENTO | LOS ANGELES | SAN DIEGO | SEATTLE

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Preliminary Scope Options May 31st, 2019

BASIS OF ESTIMATE

REFERENCE DOCUMENTATION

This Construction Cost Estimate was produced from the following documentation. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

 Document
 Date

 - Preliminary Scope Concept Site Plans
 21-May-19

 - Space Program Analysis
 21-May-19

 - Parametric Quantities by Artik Art & Architecture
 21-May-19

PROJECT DESCRIPTION

The scope of work includes two options to provide a new elementary school at the proposed North Bayshore site.

BASIS FOR PRICING

This estimate reflects the fair construction value for this project and should not be construed as a prediction of low bid. Prices are based on local prevailing wage construction costs at the time the estimate was prepared. Pricing assumes a procurement process with competitive bidding for all subtrades of the construction work, which is to mean a minimum of 3 bids for all subcontractors and materials/equipment suppliers. If fewer bids are solicited or received, prices can be exceeded to be higher.

Subcontractor's markups have been included in each line item unit price. Markups cover the cost of field overhead, home office overhead and subcontractor's profit. Subcontractor's markups typically range from 15% to 25% of the unit price depending on market conditions.

General Contractor's/Construction Manager's Site Requirement costs are calculated on a percentage basis. General Contractor's/Construction Manager's Jobsite Management costs are also calculated on a percentage basis.

 Site Requirements
 2.5%

 Jobsite Management
 7.5%

 Phasing
 0.0%

General Contractor's/Construction Manager's overhead and fees are based on a percentage of the total direct costs plus general conditions, and covers the contractor's bond, insurance, site office overheads and profit.

Insurance & Bonding 2.59
General Contractor Bonding
Sub-Contractor Bonding

OSIP

Fee (G.C. Profit) 7.0%

Unless identified otherwise, the cost of such items as overtime, shift premiums and construction phasing are not included in the line item unit price.

This cost estimate is based on standard industry practice, professional experience and knowledge of the local construction market costs. TBD Consultants have no control over the material and labor costs, contractors methods of establishing prices or the market and bidding conditions at the time of bid. Therefore TBD Consultants do not guarantee that the bids received will not vary from this cost estimate.

CONTINGENCY

Design Contingency 15.09

The Design Contingency is carried to cover scope that lacks definition and scope that is anticipated to be added to the Design. As the Design becomes more complete the Design Contingency will reduce.

Construction Contingency 0.0%

The Construction Contingency is carried to cover the unforeseen during construction execution and Risks that do not currently have mitigation plans. As Risks are mitigated, Construction Contingency can be reduce, but should not be eliminated.

Market Factor Contingency 10.0%

North Bayshore Masterplan New Elementary School



Preliminary Scope Options May 31st, 2019

BASIS OF ESTIMATE

A market factor contingency has been included in this construction cost estimate, to cover adverse market bidding conditions due to the current construction market conditions currently existing within the Mountain View Area.

Owners Soft Costs 30.0%

Owners Soft Costs includes internal management costs, professional design fees, site and abatement investigation costs, permitting costs, PGE fees, furniture fittings and equipment (FF&E) as well as additional Owner project contingency to cover scope change, bidding conditions, claims and delays.

SCAL ATION

Escalation is excluded

EXCLUSIONS

- Land acquisition, feasibility studies and financing costs
- Escalation costs to midpoint of construction
- Items identified in the design as Not In Contract [NIC]
- Utility company back charges, including work required off-site and utilities rates
- Work to City streets and sidewalks
- Phasing costs
- Hazardous material investigations and abatement costs
- Overtime, 2nd shift and lost productivity premiums

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GRAND SUMMARY



Preliminary Scope Options

May 31st, 2019

Estimator: BT GSF: Varies

	SF	TOTAL (\$)	\$ / SF	COMMENTS
OPE OPTIONS				
OPTION V1				
New Classroom Building, Admin/Library and MUR Building	56,690	71,341,291	1,258.45	
Sitework	141,320	11,090,836	78.48	
	-	82,432,127	1,454.09	_
OPTION V2				
New Classroom Building, Admin/Library and MUR Building	60,512	72,593,475	1,199.65	
Sitework	135,969	6,979,066	51.33	
	_	79,572,542	1,314.99	_

North Bayshore Masterplan New Elementary School



Preliminary Scope Options May 31st, 2019

Estimator: BT GSF: 56,690

OPTION	V1				Estimator: GSF :	BT 56,690		
REF M	F DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS		
2	OPTION V1							
3	North Bayshore Elementary School	56,690	SF			GSF by Artik Art & Architecture		
5	New Buildings					subtotal \$35.958.930		
6	Allow for bldg hazardous materials abatement				· · · · · · · · · · · · · · · · · · ·	not in scope - excluded		
7	Site demolition, clearing	33.340	SF	1.00	33.340	assume no abatement required		
8	Allow for grading	33.340	SF	1.00	33.340	allow		
9	New 2 story Classroom Building	37,940	SF	555.00	21,056,700	GSF by Artik Art & Architecture		
10	New MUR Building	8,500	SF	535.00	4,547,500	COL DY ARREST & ARCHITECTURE		
11	New 2 story Admin/Library Building	10.250	SF	565.00	5,791,250			
12	Upper level pathways	9,600	SF	160.00	1,536,000	assume above lower level		
13	Pavilion (on deck)	800	SF	250.00	200,000	open sided, incl. lighting		
14	Playcourts (on deck)	5,680	SF	185.00	1,050,800	incl. fencing, lighting, drainage		
15	Playfield (on deck)	9.000	SF	190.00	1,710,000	incl. turf, fence, lighting, drainage		
16	Playfield (on deck)	9,000	SF	190.00	1,710,000	inci. turr, rence, lighting, drainage		
17	Site Work					subtotal \$5.590.235		
18	Allow for bldg hazardous materials abatement				· · · · · · · · · · · · · · · · · · ·	not in scope - excluded		
19	Site demolition, clearing	141,320	SF	1.00	141,320	assume no abatement required		
20	Allow for grading	141,320	SF	1.00	141,320	allow		
21	Covered pathways	9,995	SF	210.00	2,098,950	assume adjoining buildings		
22	Concrete pathways	2.515	SF	15.00	37.725	assume aujoining buildings		
23	Concrete playcourts	9,200	SF	20.00	184.000	incl. lighting and benches		
24	Grass turf playfield	20.600	SF	12.00	247,200	incl. irrigation and drainage		
25	Play area	3.750	SF	45.00	168.750	incl. play equipment and furnishing		
26	Landscaping	13,290	SF	8.00	106,320	incl. shrubs and irrigation		
27	Parking	16,210	SF	28.00	453,880	63 spaces		
28	Park Site playfield/landscaping	30,490	SF	13.00	396,370	grass turf, shrubs, trees, irrigation		
29	Park Site playcourts/hardscape	13,070	SF	20.00	261,400	concrete playcourts, lights, benche		
30	Sidewalks	22,200	SF	15.00	333,000	7' sidewalk, 5' landscaping		
31	Allow for mechanical utilities	1	LS	400.000.00	400,000	7 Stackant, C landscaping		
32	Allow for electrical utilities	<u>i</u>	LS	500,000.00	500,000			
33	Allow for site lighting	- i	LS	100,000.00	100,000			
34	Allow for signage etc	1	LS	20.000.00	20.000			
35	Allow for signage etc	'	LO	20,000.00	41,549,165			
36	Site Requirements		2.5%		1,038,729			
37	Jobsite Management		7.5%		3,116,187			
38	Jobsile Management		1.570		45,704,082			
39	Insurance & Bonding		2.5%		1,142,602			
40	GC Fee		7%		3,279,268			
41	GC Fee		1 70		50,125,951			
42	D: Cti		15%		7.518.893			
42	Design Contingency Construction Contingency		10%		7,010,093	assume included in Soft Costs		
44	Construction Contingency				57,644,844	assume included in SUIL COSTS		
45	Escalation				31,044,044	excluded		
46	Market Factor		10%		5,764,484	allow		
47	Warket Factor		1070		63.409.329	allow		
48	Project Soft Costs		30%		19.022.799	allow		
40	Total Option V1		3070		82,432,127	\$1454.09 / SF		

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Preliminary Scope Options

May 31st, 2019

Estimator: BT GSF: 60,512

OPTION	l V2				GSF	: 60,512
	MF DESCRIPTION	QUANTITY	UoM	UNIT RATE	TOTAL	COMMENTS
1 2	OPTION V2					
3	North Bayshore Elementary School	60.512	SF			GSF by Artik Art & Architecture
4						
5	New Buildings					subtotal \$36.590.082
-6	Allow for bldg hazardous materials abatement					not in scope - excluded
7	Site demolition, clearing	38,691	SF	1.00	38,691	assume no abatement required
-8	Allow for grading	38,691	SF	1.00	38.691	allow
9	New 2 story Classroom Building	43,032	SF	555.00	23,882,760	GSF by Artik Art & Architecture
10	New MUR Building	6.902	SF	535.00	3,692,570	•
11	New 2 story Admin/Library Building	10.578	SF	565.00	5,976,570	
12	Upper level pathways	10,070		000.00	0,070,070	none this option
13	Pavilion (on deck)	800	SF	250.00	200,000	open sided, incl. lighting
14	Playcourts (on deck)	5.680	SF	185.00	1.050.800	incl. fencing, lighting, drainage
15	Playfield (on deck)	9.000	SF	190.00	1,710,000	incl. turf, fence, lighting, drainage
16	r layhola (on acon)	0,000		100.00	1,7 10,000	
17	Site Work					subtotal \$3.517.735
18	Allow for bldg hazardous materials abatement					not in scope - excluded
19	Site demolition, clearing	135,969	SF	1.00	135,969	assume no abatement required
20	Allow for grading	135,969	SF	1.00	135,969	allow
21	Covered pathways	,			,	none this option
22	Concrete pathways	2.515	SF	15.00	37.725	'
23	Concrete playcourts	9.200	SF	20.00	184.000	incl. lighting and benches
24	Grass turf playfield	20,600	SF	12.00	247,200	incl. irrigation and drainage
25	Play area	3,750	SF	45.00	168,750	incl. play equipment and furnishings
26	Landscaping	17,934	SF	8.00	143,472	incl. shrubs and irrigation
27	Parking	16,210	SF	28.00	453,880	63 spaces
28	Park Site playfield/landscaping	30,490	SF	13.00	396,370	grass turf, shrubs, trees, irrigation
29	Park Site playcourts/hardscape	13,070	SF	20.00	261,400	concrete playcourts, lights, benches
30	Sidewalks	22,200	SF.	15.00	333,000	7' sidewalk, 5' landscaping
31	Allow for mechanical utilities	1	LS	400,000.00	400,000	, , , , ,
32	Allow for electrical utilities	1	LS	500,000.00	500,000	
33	Allow for site lighting	1	LS	100,000.00	100.000	
34	Allow for signage etc	1	LS	20.000.00	20.000	
35		-			40,107,817	_
36	Site Requirements		2.5%		1.002.695	
37	Jobsite Management		7.5%		3,008,086	
38	g				44.118.599	
39	Insurance & Bonding		2.5%		1,102,965	
40	GC Fee		7%		3,165,509	
41					48,387,073	
42	Design Contingency		15%		7,258,061	
43	Construction Contingency		1070		1,200,001	assume included in Soft Costs
44					55,645,134	
45	Escalation				,-10,101	excluded
46	Market Factor		10%		5.564.513	allow
47	manor doto		. 370		61,209,648	
48	Project Soft Costs	1	30%		18,362,894	allow
49	Total Option V2		00.0		79,572,542	\$1314.99 / SF
-10	Town Opiloli 12				, 0,0, 2,0 12	V.0.1.00.7 G.