



Measure J Update

05/10/2018



Implementation of Series A

May 2017-May 2020 (\$42M)

- Welding Building: April 2018 – October 2019
 - Demo Existing Building: Fall 2019
- Skyway Center: January 2018 – July 2018
- Replacement of Athletic Field House and Football Press Box: November 2018 – August 2019
- Infrastructure Upgrades:
 1. Athletic Parking Lot/Service road repair, storm drain, gas line, and sewer line replacement by Athletic Complex May 29, 2018 – August 13, 2018
 2. Service road repair and storm drain and gas line replacement by Welding/LRC/Physical Science (Summer 2019)
- IT Equipment Upgrades:
 - LRC smart classroom replacement (Summer 2018)
 - Faculty and staff lifecycle computing upgrades
 - Equipment upgrades
- Science Building – Planning Summer 2019
- PSTC Scenario Village – Planning only: Summer 2019

New Welding & Manufacturing





Welding & Manufacturing



Construction Site Camera – Watch it live at <https://www.youtube.com/user/ButteCollegeChannel/live>



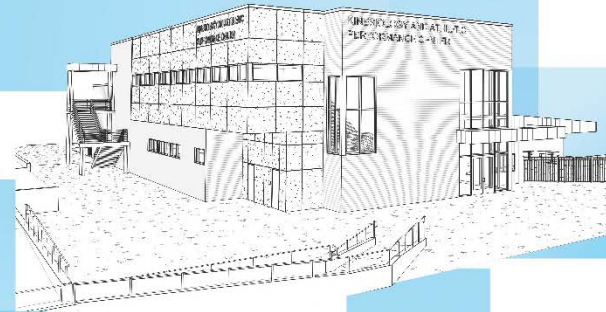
Skyway Center Diesel Auto Lab

Completion – July 2018





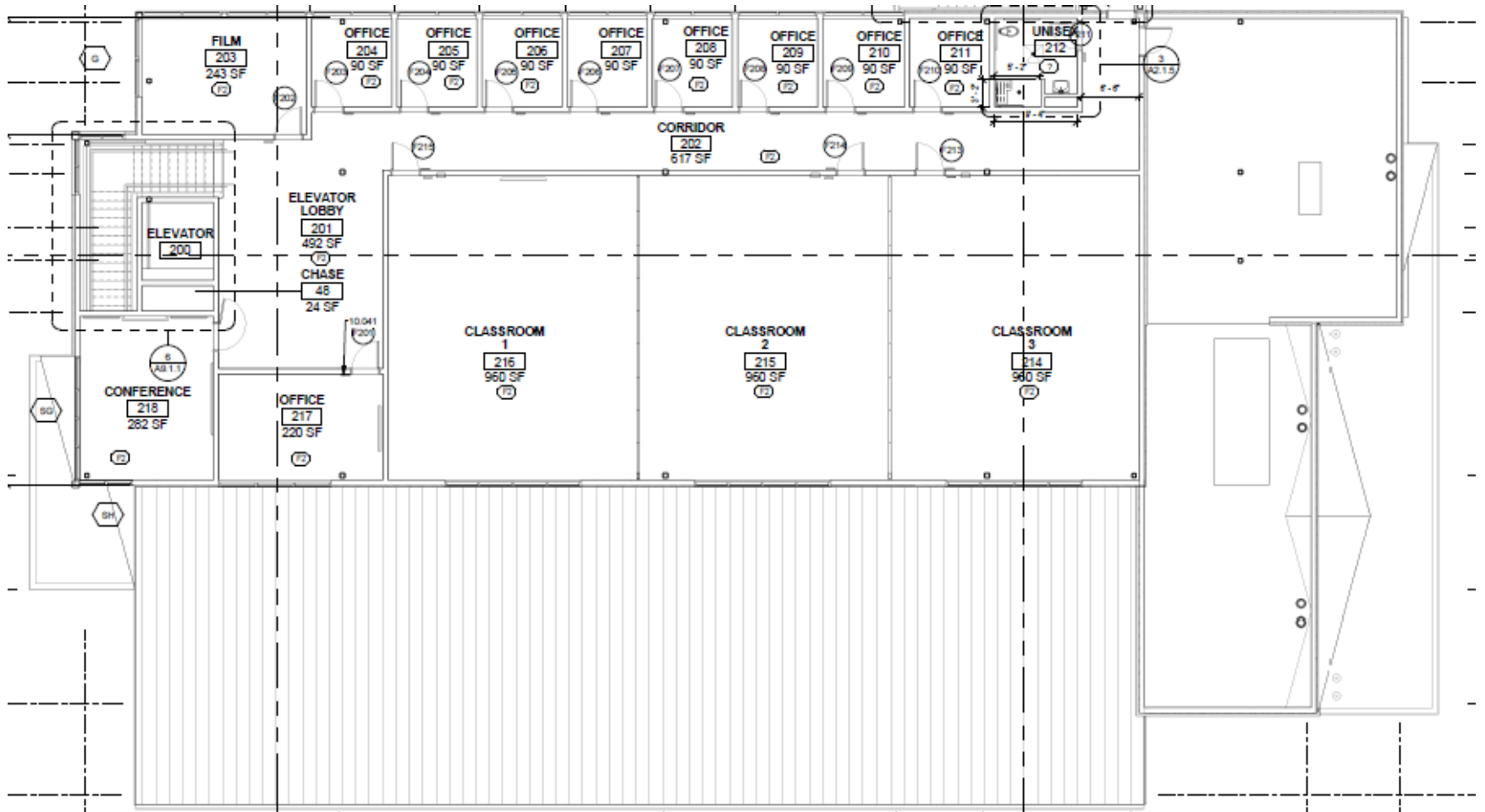
Athletic Performance Center & Kinesiology Classrooms





Athletic Performance Center & Kinesiology Classrooms

New – 2nd Floor





Upgraded Press Box

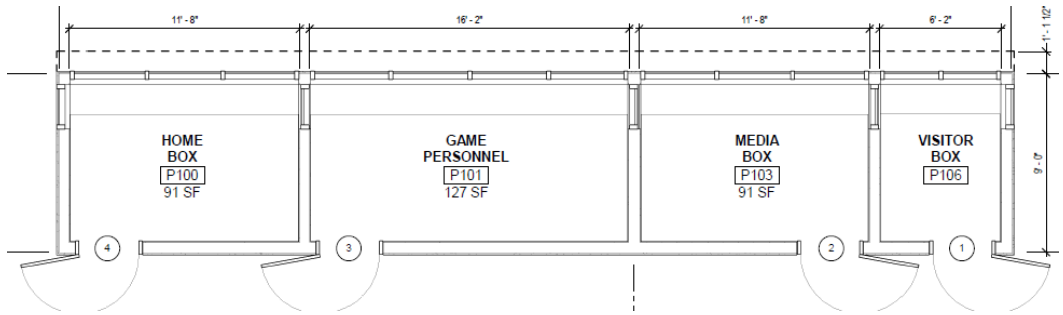
Press Box Replacement



Current

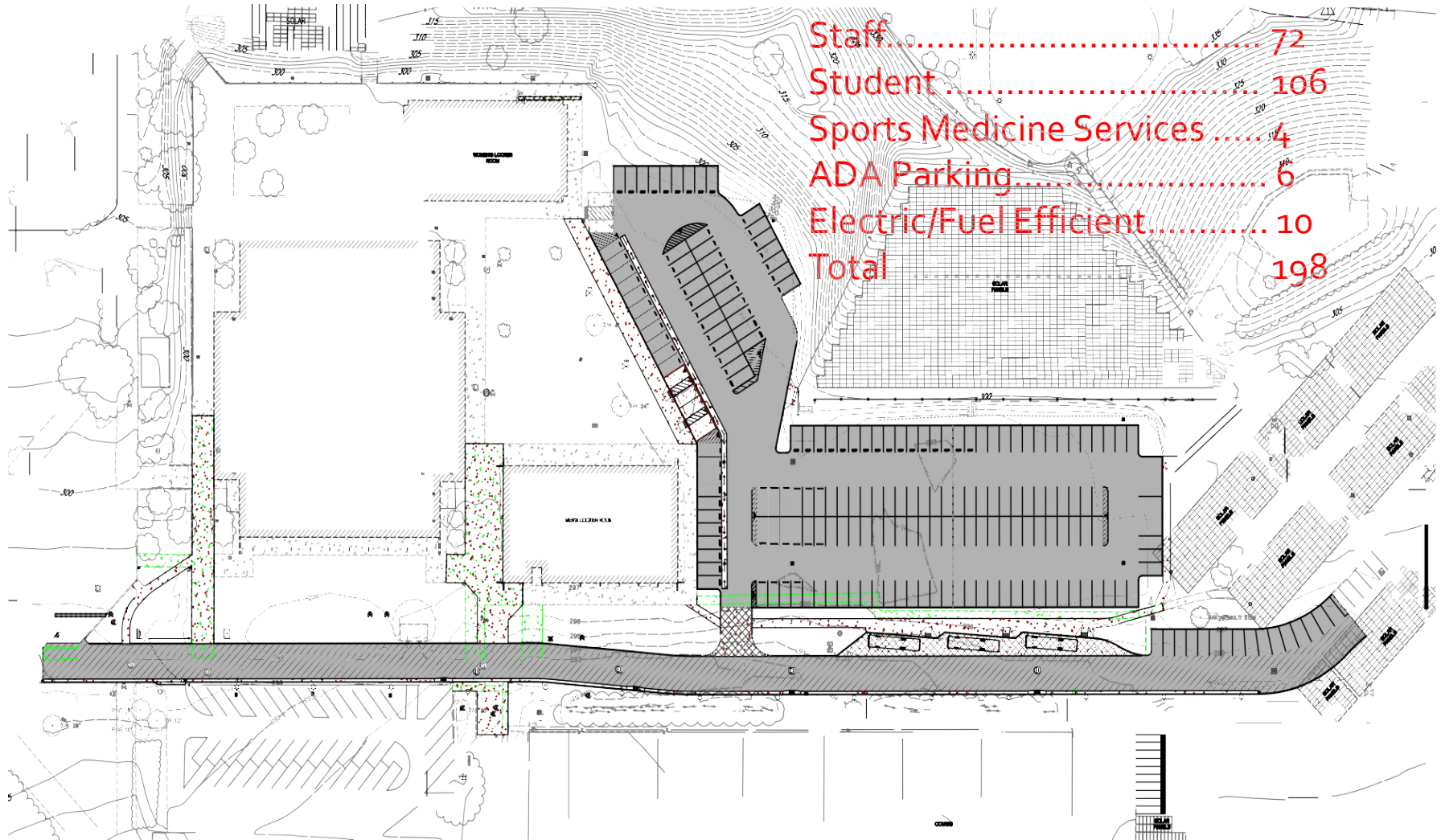


New



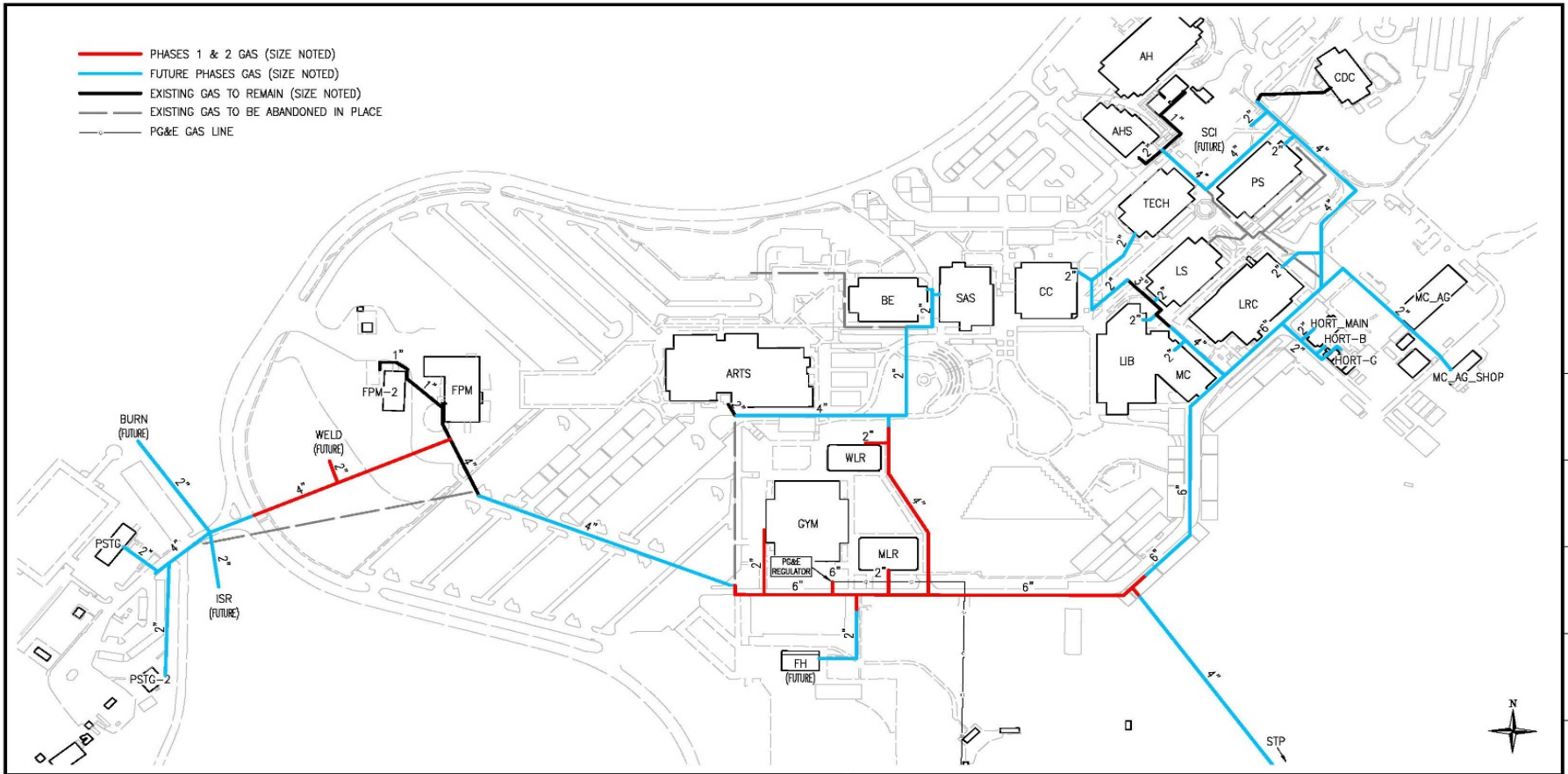


Athletic Parking Lot/Service Road & Utility Upgrades



Staff.....	72
Student.....	106
Sports Medicine Services.....	4
ADA Parking.....	6
Electric/Fuel Efficient.....	10
Total	198

Natural Gas Line Replacement Plan



<p>THIS DRAWING IS FOR VISUAL REFERENCE ONLY. SCALE IS APPROXIMATE. LOCATION OF EXISTING AND PROPOSED STRUCTURES IS APPROXIMATE. ANY AND ALL DIMENSIONS ARE APPROXIMATE. ORIGINAL DRAWING SIZE 11"x17". IMAGE SOURCED: GOOGLE EARTH</p>	<p>GTS ENGINEERING & CONSULTING 130 AMER GORVE DR. SUITE 134 CHICO, CA 95973 (530) 893-6711 www.gtsinc.com</p>	<p>BUTTE COMMUNITY COLLEGE GAS DISTRIBUTION SYSTEM RE-BUILD PROPOSED GAS SITE EXHIBIT</p>	
		<p>BUTTE COUNTY, CALIFORNIA</p>	
<p>DATE LAST WORKED ON 01/24/2018</p>	<p>SCALE NOT TO SCALE</p>	<p>DRAWING NUMBER GTS-17080-02</p>	<p>SHEET 1 OF 1</p>



Project Sequence

Series B - C

Series B (May 2020 – May 2023)

- Science Building (planning and construction)
- Athletics Upgrades Phase II
- I.T. Upgrades
- Facilities Infrastructure Upgrades: Utilities, paving, walkways, ADA

Series C (May 2023 – May 2026)

- Science Building (construction)
- Technology/Math Remodel (planning)
- Physical Science Remodel (planning)
- I.T. Upgrades
- Facilities Infrastructure Upgrades: Utilities, paving, walkways, ADA

Series D (May 2026 – May 2029)

- Physical Science Remodel (construction)
- Life Science Remodel for Veterans and Student Services (construction)
- Technology/Math Building Remodel (construction)
- Law Enforcement Training Center (planning)
- I.T. Upgrades
- Facilities Infrastructure Upgrades: Utilities, paving, walkways, ADA



Project Sequence

Series E (May 2029 – May 2032)

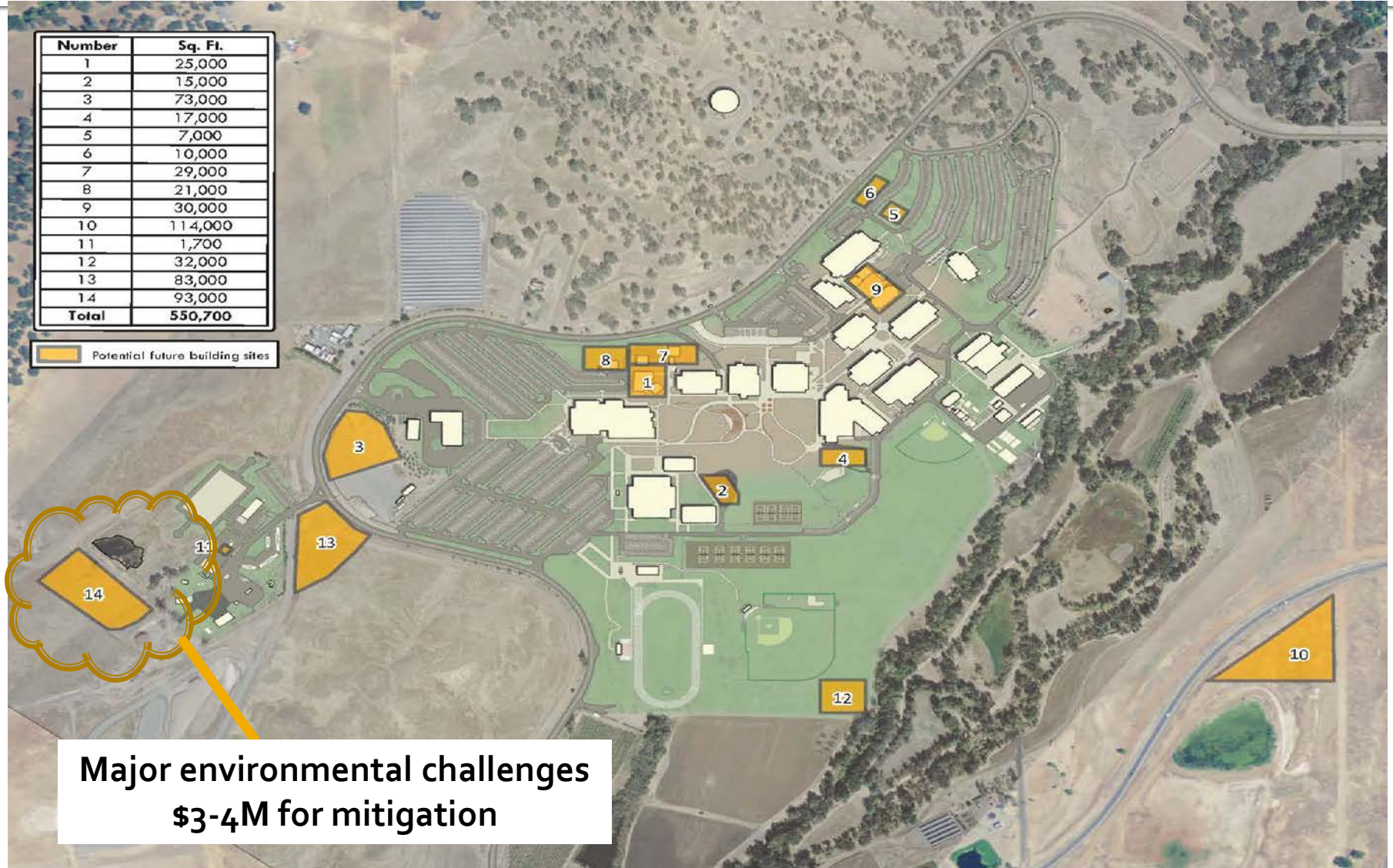
- Law Enforcement Training Center (construction)
- Removal of Portables for Veterans and Student Services
- Facilities Infrastructure Upgrades: Utilities, paving, walkways, ADA
- I.T. Upgrades



Project Sequence

Number	Sq. Ft.
1	25,000
2	15,000
3	73,000
4	17,000
5	7,000
6	10,000
7	29,000
8	21,000
9	30,000
10	114,000
11	1,700
12	32,000
13	83,000
14	93,000
Total	550,700

 Potential future building sites



**Major environmental challenges
\$3-4M for mitigation**

Construction Challenges

- DSA
- Cost Escalation
- Labor Shortage

Higher Cost of Materials & a Shortage of Skilled Labor Pushing Cost Up Nationally



Labor Shortage Trend from 2016 Continues
Construction Costs Escalated in February

Higher Cost of Materials & a Shortage of Skilled Labor Pushing Cost Up Nationally

Labor shortages throughout the country continuing in 2018 as construction firms struggle to find enough skilled craft workers.

75% construction firms planning to add workers in 2018

(Recent survey Associated General Contractors of America)

- 78% of those firms having hard time filling skilled labor force
- 82% of those firms expect it to remain difficult



Butte, Glenn, Yuba, and Tehama Counties

- Contractors working at a 91% filled skilled labor rate (positions for plumbers, electricians, and HVAC technicians, per Valley Contractor Exchange).
- Construction companies are probably paying more in wages, benefits, training and recruitment efforts & passing on to the bid prices.

Higher Cost of Materials & a Shortage of Skilled Labor Pushing Cost Up Nationally

Construction Costs Escalated in February

- Construction costs escalated in February, driven by price increases for a wide range of building materials including steel and aluminum (Associated General Contractors of America Labor Department Data)



Percentage Change in Producer Price Indexes (PPIs) and Employment Cost Indexes (ECIs) for Construction, 2012-2018

WPU80	Construction (partial)	2.2	2.1	0.8	2.7	0.0	0.7	3.1
WPU801	New nonresidential building construction	2.2	2.1	0.6	3.1	0.0	0.8	3.6
WPU801101	New warehouse building construction	2.1	2.2	1.3	3.5	0.2	1.0	3.7
WPU801102	New school building construction	2.1	2.4	-0.1	3.3	0.0	1.4	4.2
WPU801103	New office building construction	2.1	2.7	1.3	2.6	0.1	0.5	2.5
WPU801104	New industrial building construction	2.1	2.0	0.1	4.0	0.0	0.8	4.6
WPU801105	New health care building construction	1.8	1.0	0.1	2.7	0.2	0.3	3.6
WPU802	Maint & repair of nonres buildings (partial)	2.7	1.6	1.9	1.2	-0.1	0.6	1.7

Higher Cost of Materials & a Shortage of Skilled Labor Pushing Cost Up Nationally

Construction Costs Escalated in February 2018

- Construction costs escalated in February, driven by price increases for a wide range of building materials including steel and aluminum (Associated General Contractors of America Labor Department Data)
- Construction Goods and Services Price Increases February 2016 to February 2017 (Producer Price Indexes (PPIs) and Employment Cost Indexes (ECIs) for Construction)
 - Aluminum 11.1%
 - Steel Mill Products 4.8%
 - Copper & Brass 10%
 - Lumber & Plywood 13.2%
 - Gypsum Products 8%
 - Plastic Construction Products 4.9%
 - Quotes for new school building construction 4.2%
- Contractor Reported Increases Since Mid-February 2018
 - Steel prices 22%-25% (quotes good for a day or maybe week)
 - Underground utility piping \$1.00 per LF
 - Solar 30%



Higher Cost of Materials & a Shortage of Skilled Labor Pushing Cost Up Nationally

Trends & Estimating Cost Escalations

....not an exact science.



- **Expect 2018-2020 will continue to see high escalation in the range of 5%** (*Timothy Blood, Project Director Sundt Construction Inc.*)
- **“Cool Down” 2020 or 2021**
- **District should increase Owner’s contingency from 5% to 7%**
- **Prices should be inflation adjusted when used**
- **Embrace Design-Build delivery system which allows early contractor, designer and major subcontractor commitment to project to address cost escalations and labor shortages**



Project Bond Allocations

- **Welding Building \$23M:** This project would replace the outdated welding facility with a modern structure that would enable the program to maintain its current excellence, expand the number of students that could be accommodated, and provide the space necessary to meet the needs of local manufacturers.
- **Skyway Center Remodel \$2M - \$5M:** This project completes the building and provides additional space for the Automotive Program for diesel fuel technology.
- **Athletics \$12M:** This project modernizes the College's athletic facilities and includes replacement of the press box and field house, removal of the tennis courts, and the addition of a synthetic practice field.
- **Facilities Infrastructure \$21.7M:** This project replaces the PVC gas lines, broken storm drains and sewer lines, improves deteriorated parking lots and service roads, and makes upgrades to meet newer accessibility requirements.
- **I.T. Upgrades \$11M:** This project updates the College's technology infrastructure to alleviate information security issues and provides instruction technology to meet faculty and student needs.
- **Science Building \$73M:** This project provides a new Sciences Building that meets current and projected needs for the Physical and Life Science programs.



Project Bond Allocations

- **Life Science Remodel for Veterans and Student Services \$10M:** This project will renovate the existing Life Science building to accommodate the Veterans Center, Safe Place, Sustainability Resource Center, Regional Testing Center and the Call Center. The result will be permanent space for all of these Student Services programs.
- **Physical Science Remodel \$10M:** This project will renovate the existing Physical Science building to accommodate classroom space for Agriculture, Natural Resources, Horticulture and MESA Programs.
- **Technology Building Remodel \$6.8M:** This project will renovate this building to provide modern classrooms to support Mathematics.
- **Scenario Village \$1M:** This project will provide for dedicated space on campus for academies scenario testing.
- **Law Enforcement Training Center \$16M:** This project would complete the Public Safety Training Area by constructing an indoor firing range.
- **Remove Student Services Portables \$500K**



Cash Flow

- Every 3 Years

Series A: 2017-2020 - \$42M

Series B: 2020-2023 - \$34.9M

Series C: 2023-2026 - \$34.8M

Series D: 2026-2029 - \$37.2M

Series E: 2029-2032 - \$41.1M

\$190M