

# Measure Q Update



**BOARD OF TRUSTEES**  
**JUNE 3, 2015**

# Agenda



- 1. PROCESS REVIEW – BIOTECH/AUTOTECH**
- 2. FAIRFIELD SCIENCE BLDG. UPDATE**
- 3. SUMMER/FALL PLANNING ACTIVITY**
- 4. SUMMER/FALL CONSTRUCTION & CLOSE OUT ACTIVITY**

# Process Review Biotech and Autotech



# Design-Build Selection Process



- **Design-Build Selection Process – Biotech**
  - May 27 – Received and reviewed three DBE proposals
  - June 4 – Follow up meetings with DBEs
  - June 17 Board mtg. – Request to negotiate with best value DBE
  - July 15 Board mtg. – Approve DBE contract
- **Design-Build Selection Process – Autotech**
  - June 10 – Interview six vendors for short list participants
  - June 24 & 25 – First set of vendor meetings
  - July 7 – Second set of vendor meetings
  - August 13 – Proposals due



New signaled crosswalk

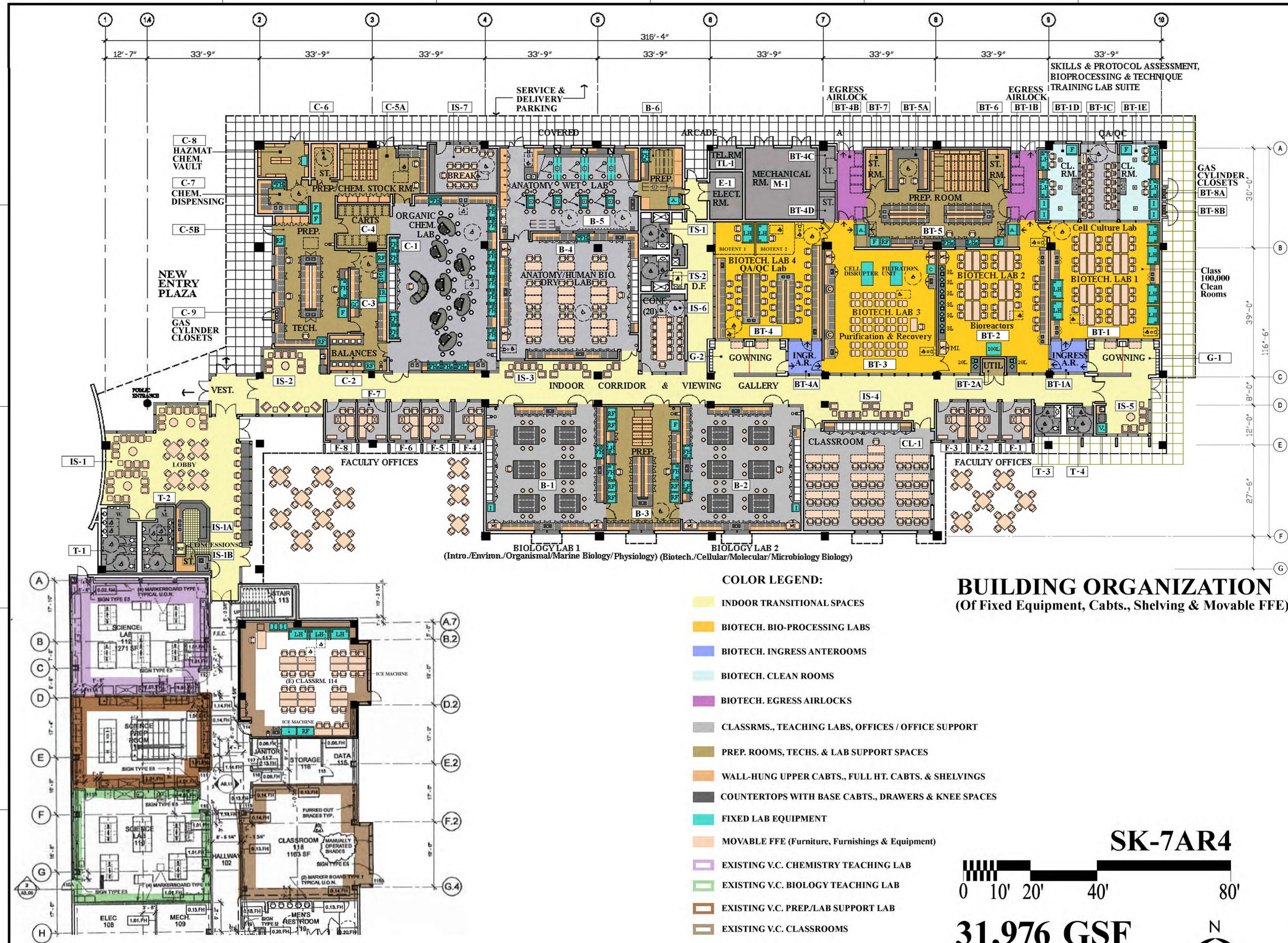
New Building will connect to existing

Vacaville Master Plan – Biotechnology Project Location and Crosswalk



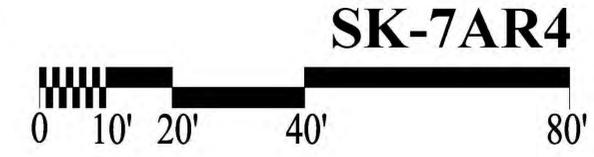
New Biotechnology & Science Building (BTSB)

Vacaville Center



- COLOR LEGEND:**
- INDOOR TRANSITIONAL SPACES
  - BIOTECH. BIO-PROCESSING LABS
  - BIOTECH. INGRESS ANTEROOMS
  - BIOTECH. CLEAN ROOMS
  - BIOTECH. EGRESS AIRLOCKS
  - CLASSRMS., TEACHING LABS, OFFICES / OFFICE SUPPORT
  - PREP. ROOMS, TECHS. & LAB SUPPORT SPACES
  - WALL-HUNG UPPER CABTS., FULL HT. CABTS. & SHELVINGS
  - COUNTERTOPS WITH BASE CABTS., DRAWERS & KNEE SPACES
  - FIXED LAB EQUIPMENT
  - MOVABLE FFE (Furniture, Furnishings & Equipment)
  - EXISTING V.C. CHEMISTRY TEACHING LAB
  - EXISTING V.C. BIOLOGY TEACHING LAB
  - EXISTING V.C. PREP/LAB SUPPORT LAB
  - EXISTING V.C. CLASSROOMS

**BUILDING ORGANIZATION**  
(Of Fixed Equipment, Cabts., Shelving & Movable FFE)



**31,976 GSF**

**LINEAR 1-STORY CONCEPT - NORTH OF (E) VACAVILLE CENTER**

Issuances and Revisions

No.	Date	Description

Date **01 - 19 - 2015**

Sheet Title

**NEW BIOTECH BLDG. FLOOR PLAN**

Scale: 3/32" = 1'-0"

Project No. 2014.046

**A - 2**

Sheet No. Revision

**(N) BIOTECHNOLOGY & SCIENCE BUILDING - Vacaville Center**

**CONCEPTUAL MASSING STUDIES**

3

SOLANO  
COMMUNITY COLLEGE



**WEST AERIAL - from Existing Parking Lot**

1

SOLANO  
COMMUNITY COLLEGE



**NWAERIAL-DNA Double Helix Entry Plaza & Arbor**

(N) BIOTECHNOLOGY & SCIENCE BUILDING - Vacaville Center

CONCEPTUAL MASSING STUDIES

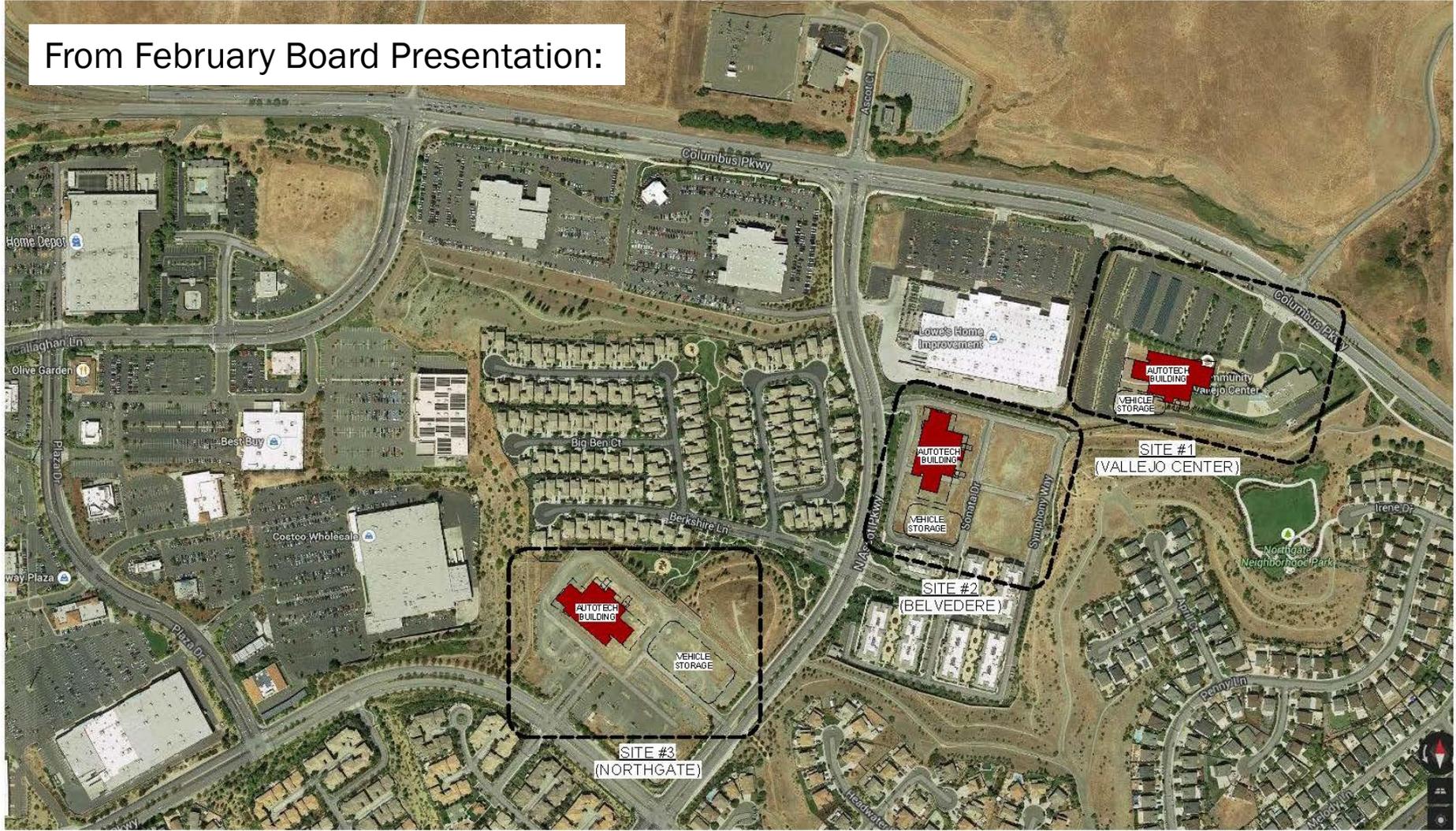
2

SOLANO  
COMMUNITY COLLEGE



**NORTHWEST PERSON-EYE VIEW-Entry Plaza & Arbor**

From February Board Presentation:



PRELIMINARY SITE PLAN OPTIONS

AUTO TECHNOLOGY CENTER JANUARY 21, 2015

SCALE 1" = 300'-0"

LIONAKIS





# Exterior Rendering (front door)



# Interior Rendering (front lobby)



# Interior Rendering (classroom bays)



# Fairfield Science Building Update



**PROGRAMMING INFORMATION & START OF  
SCHEMATIC DESIGN PHASE**

# SCIENCE BUILDING CRITICAL SUCCESS FACTORS



## PURPOSE:

Serve as primary guidelines to effective decision-making and project design focus throughout the project by the entire Project Core Team.

### • Project user group input:

- Sustainability: both building & operations
- Student Study Space “Bird room”
- Science Activity Center - tutoring for science learning
- Durable/built to last
- Work stations/offices for instructors and techs; classrooms proximity to science storage
- Good storage that is flexible in size; faculty gathering area
- Consolidated location for veteran students
- Technology infrastructure for future
- Community outreach opportunity – spaces & rooms

# SCIENCE BUILDING CRITICAL SUCCESS FACTORS



- **Budget and Schedule:**

Maximize program and design opportunities while meeting the available budget and schedule for the project.

- **Safety:**

A safe teaching environment for faculty, staff, students and visitors is highly desired. Included in this factor is the desire to have well-ventilated lab spaces.

- **Attract Students /Program of Choice:**

A facility that supports the Science program being the program of choice. A place where students gather for instruction, support and social activities.

- **Representative of All Science Programs:**

Recognized as the location for scientific learning on campus

- **Functional, Flexible and Efficient Facility:**

Form follows function; provides ease of service and operation; appropriately sized prep spaces.

# MODULAR LAB PLANNING



Figure M2 - Laboratory Planning Module

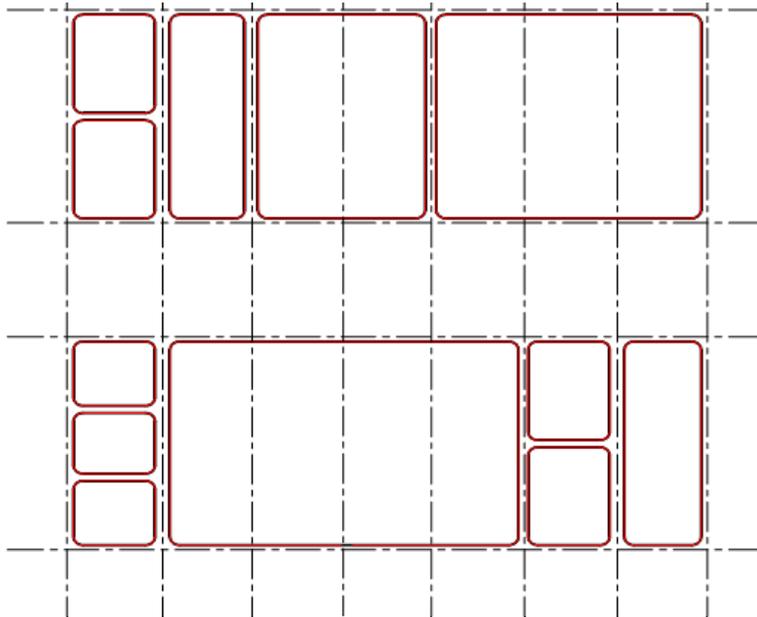


Figure M1 - Modular Planning of Laboratory Space

## Key Components of Effective Modular Lab Planning:

- Planning module based upon lab safety
- Provide flexibility for future changes
- Combined to address space needs from large to small needs
- Cost effective layout & building organization
- Practical approach to define scope and area limits

# DESIGN FROM LABORATORY OUT

## SPACE DIAGRAM

LONAXIS / RFD

SCIENCE BUILDING PHASE 1

Solano CCD - Fairfield Campus

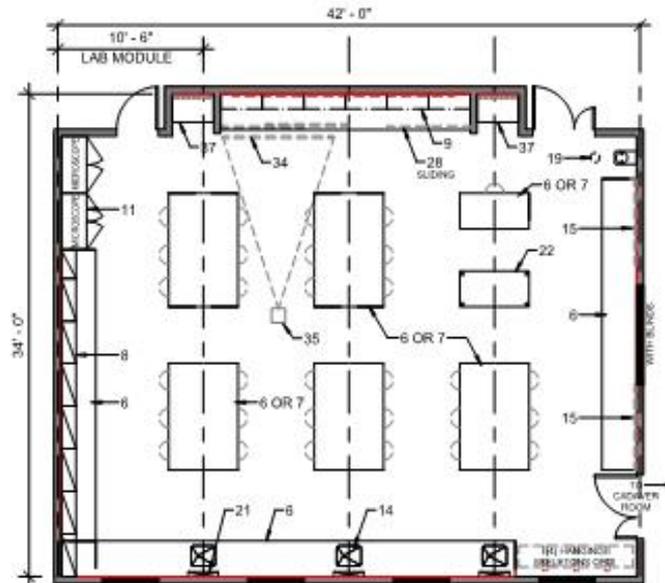
DEPARTMENT: BIOLOGY

SPACE NAME: ANATOMY LABORATORY

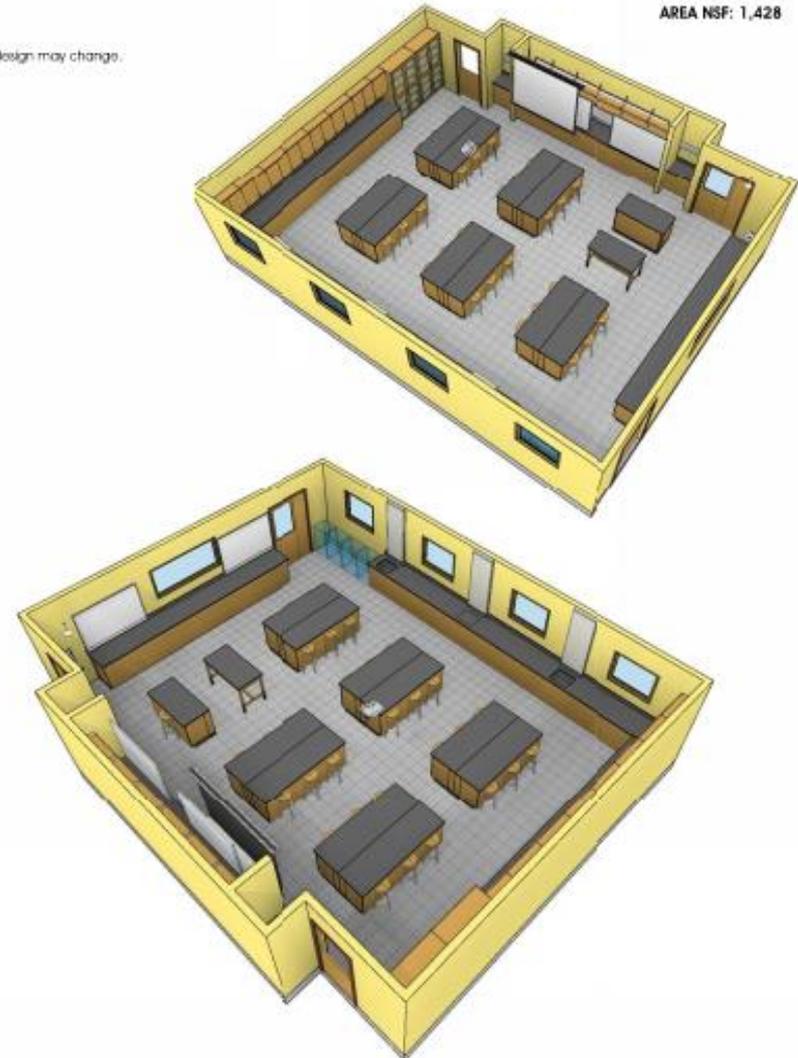
SPACE ID NO:

AREA NSF: 1,428

This diagram is conceptual and is provided only to indicate required furnishings, equipment, and general room proportions. The actual room design may change.



- 28 - 30 STUDENTS
- VIEW WINDOWS FROM CORRIDOR TO BE DEVELOPED



## FURNISHINGS

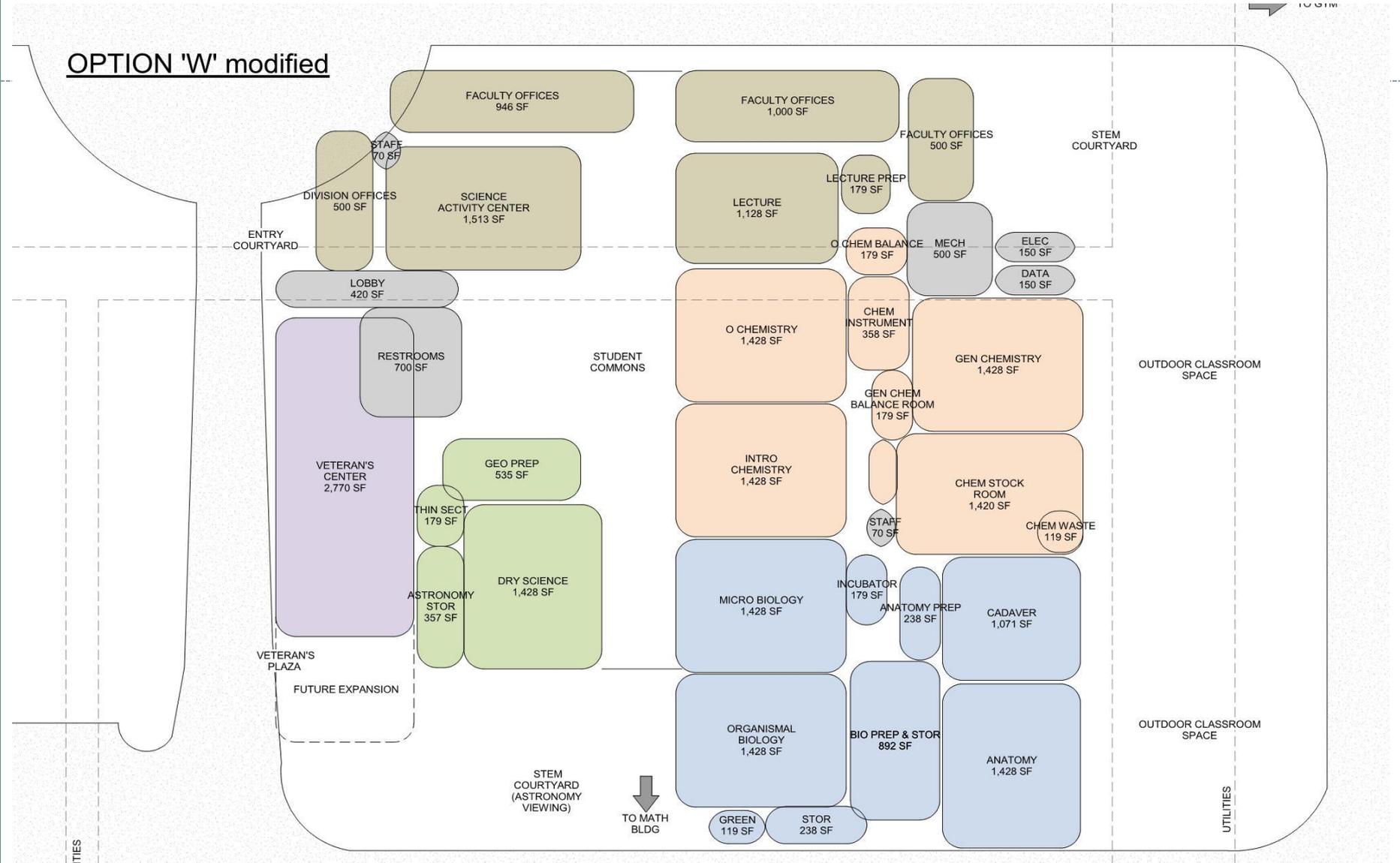
- |                                       |                                 |   |
|---------------------------------------|---------------------------------|---|
| 01. Chemical Fume Hood with Cup Sink  | 13. Corrosive Cabinet           | 25. Autoclave, Benchtop (OFOI)            |
| 02. Biological Safety Cabinet         | 14. Laboratory Sink             | 26. Movable Laboratory Table              |
| 03. Backdraft Exhaust                 | 15. Tackboard                   | 27. Wire Shelving Unit                    |
| 04. Laminar Flow Hood                 | 16. Downdraft Dissection Table  | 28. White Markboard                       |
| 05. Smoke Exhaust                     | 17. Cylinder Rack               | 29. Industrial Shelving Unit              |
| 06. Laboratory Bench, Standing Height | 18. Scaulley Sink               | 30. Exam Light                            |
| 07. Laboratory Bench, Sitting Height  | 19. Safety Shower/Eyewash       | 31. Chemical Storage Cabinet              |
| 08. Wall Cabinet                      | 20. Overhead Service Carrier    | 32. Tackboard                             |
| 09. Adjustable Wall Shelving          | 21. Pile Drop Enclosure         | 33. Skeleton Cabinet                      |
| 10. Island Bench Shelving             | 22. Movable Demonstration Bench | 34. AV Screen                             |
| 11. Tall Storage Cabinet              | 23. Glassware Washer / Dryer    | 35. Multi-media Projector (Ceiling Mount) |
| 12. Rammable Cabinet                  | 24. Canopy Hood                 | 36. Ventilated Storage Cabinet            |
|                                       |                                 | 37. Coat/Rock Bag Storage                 |





# USER PREFERRED BUBBLE DIAGRAM

OPTION 'W' modified



# BUBBLE DIAGRAM AS FLOOR PLAN

GSF: 10994 + 19442 = 30436sf  
 COVERED EXT: 4721sf  
 APPROX SITE: 58,700sf

TO GYM



May 15, 2015

LIONAKIS

APPROX SCOPE OF WORK



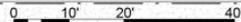
OUTDOOR CLASSROOM SPACE

OUTDOOR CLASSROOM SPACE

(E) HARDSCAPE



SCALE: 1"=20'-0"



TO MATH BLDG

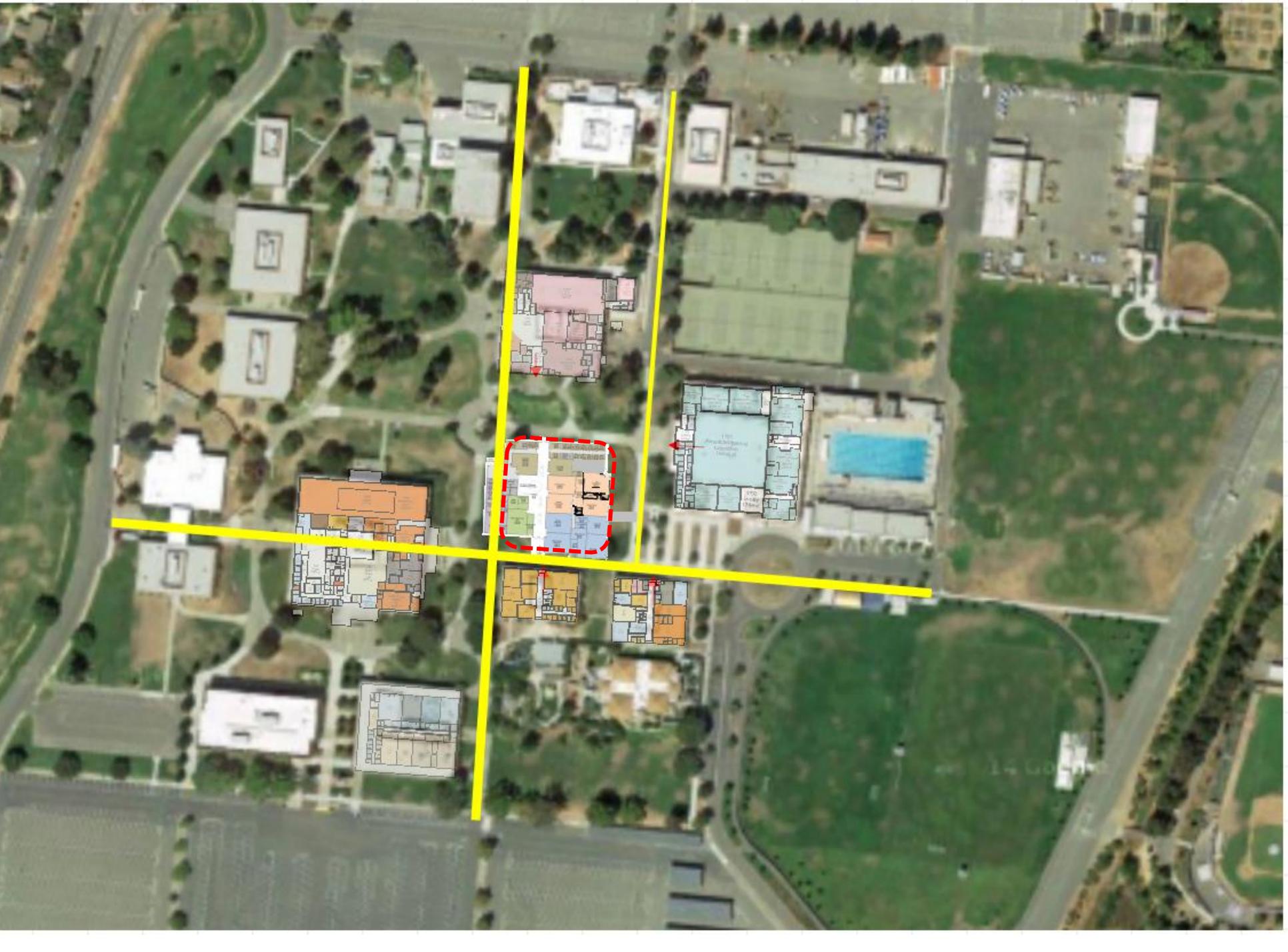
UTILITIES



UTILITIES

FUTURE EXPANSION

VETERAN'S PLAZA



# 3d MODEL DIAGRAM



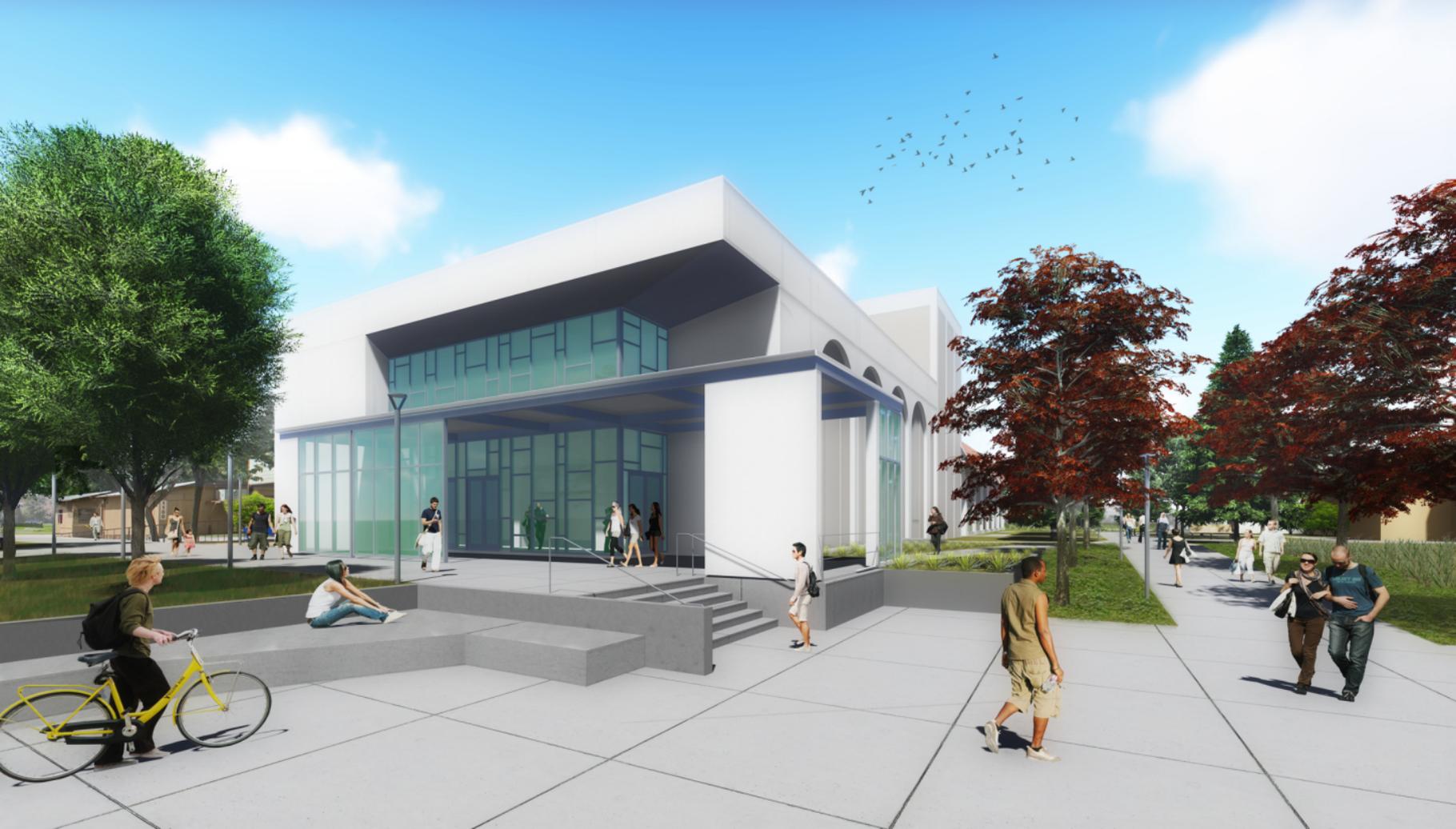
# SCIENCE BUILDING CONCEPTS











# Summer-Fall Planning Activity



- **Planning Activity**
  - VV Biotech CEQA activity – complete
  - VJO CEQA activity – public comment period starts mid-June
  - Accreditation items – VV and VJO
  - FF Library – Funding strategy for July 1, 2017 start of design
  - FF Athletics Master Plan – Kick off meeting on June 22

# Summer-Fall Construction & Close Out Activity



- **Construction and Close Out Activity**
  - FF ESCO phase 2 – Mechanical improvements
  - FF B-600 – Punch List
  - FF Solar Projects – Close out
  - FF Portables near B-1100

# Questions?

