



SAN BERNARDINO VALLEY COLLEGE **2016 EDUCATIONAL AND FACILITIES** **MASTER PLANS**

SAN BERNARDINO CCD
> BOARD WORKSHOP

MAY 12, 2016



AGENDA

> **SAN BERNARDINO VALLEY COLLEGE FACILITIES MASTER PLAN**

- 01 > **Update the Space Inventory**
- 02 > **Study Space Utilization**
- 03 > **Analyze the Existing Campuses**
- 04 > **Define Needs + Challenges**
- 05 > **Explore Campus Opportunities**
- 06 > **Next Steps**

EXPLORE
OPTIONS

01 > SPACE INVENTORY UPDATE



01 > SPACE INVENTORY UPDATE

DISTRICT SPACE INVENTORY

CURRENT (2015) SPACE INVENTORY REPORT

Assignable Square Feet (ASF)

SPACE TYPE	CURRENT INVENTORY (ASF)
Lecture	102,798
Lab	179,874
Office	119,497
Library	58,711
Instructional Media	9,322
Other	287,473
TOTAL	757,675

CAMPUS	TOTAL ASF	
Crafton Hills College	274,189	36%
SB Valley College	447,804	59%
District Office	35,682	5%
TOTAL ASF	757,675	

01 > SPACE INVENTORY UPDATE

> SAN BERNARDINO VALLEY COLLEGE EXISTING SPACE

SPACE TYPE	CURRENT INVENTORY (ASF)*	CURRENT SPACE NEEDS**	CURRENT CAP/LOAD RATIOS	2017 SPACE INVENTORY (ASF)***
Lecture	66,883	30,609	219%	69,886
Lab	132,187	164,171	81%	133,182
Office	69,027	51,380	134%	70,698
Library	29,886	37,328	80%	29,886
Instr. Media	6,577	11,577	57%	6,577
Other	143,244	TBD	N/A	154,562
TOTALS	447,804			464,791

* 2015 Space Inventory

** For fall 2015 enrollment

***New Gym & Field Buildings have been added. Snyder and Women's Gyms have been removed.



BUILDING KEY

ID	Building Name
AD/SS	ADMINISTRATION/STUDENT SERVICES
ART	ART CENTER
AUD	AUDITORIUM
B	BUSINESS
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CP1	CENTRAL PLANT (NEW)
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WARE	WAREHOUSE

LEGEND

PROPERTY LINE
EXISTING PERMANENT FACILITIES
EXISTING TEMPORARY FACILITIES
FACILITIES IN DESIGN & CONSTRUCTION
FAULT ZONE
50' SETBACK
FLOOD ZONE

EXISTING CAMPUS

EXPLORE
OPTIONS

02 > SPACE UTILIZATION



02 > SPACE UTILIZATION

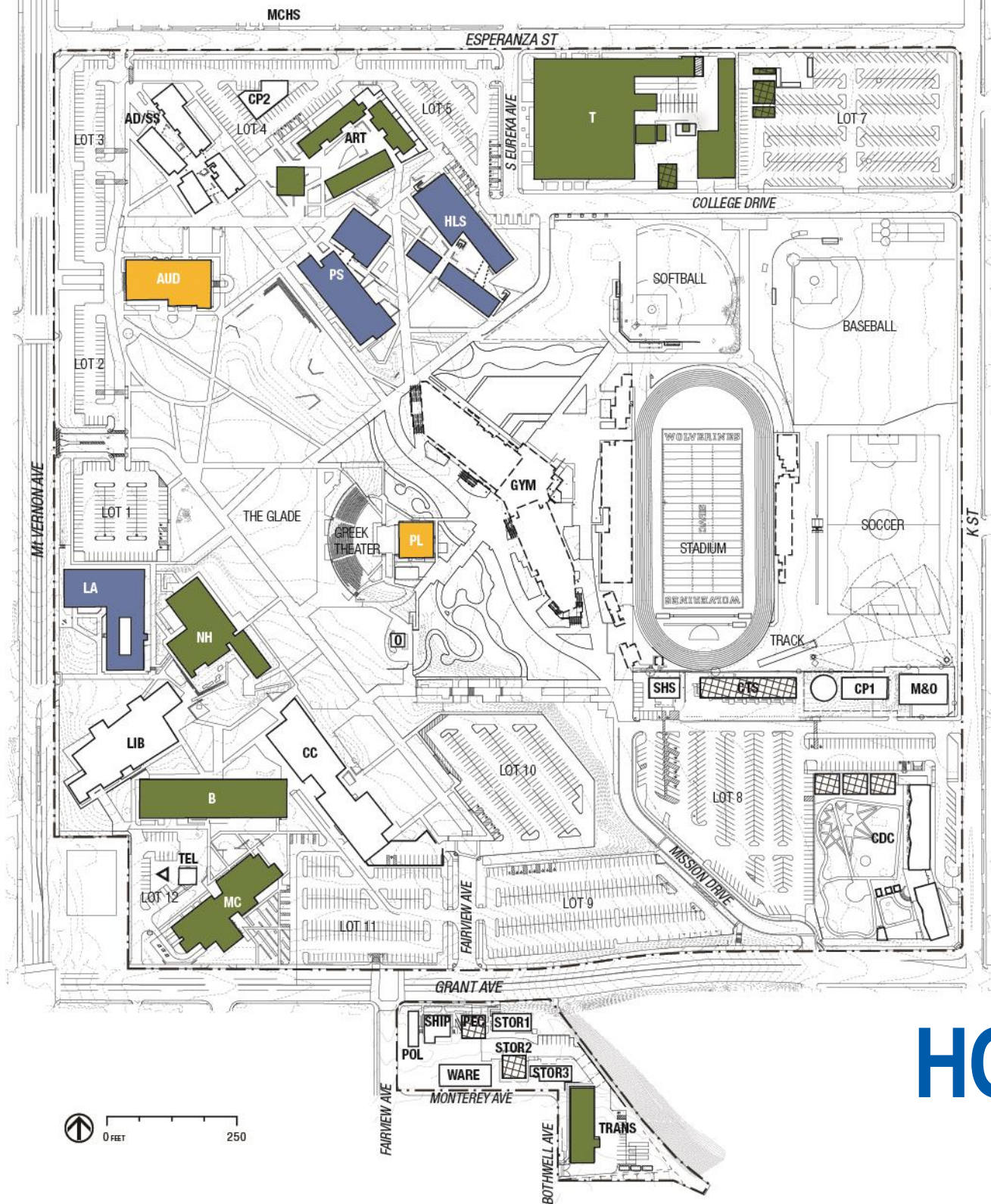


San Bernardino Valley College

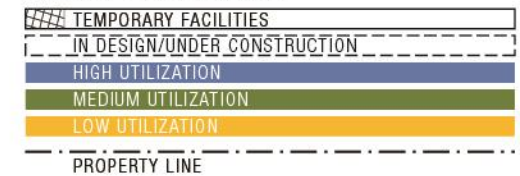
Space Utilization



April 2016



SPACE UTILIZATION



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HOURLY SPACE UTILIZATION

02 > SPACE UTILIZATION

SBVC FINDINGS

- Building-wide hourly utilization was low
 - Classroom “ownership”
- Subjects that Need Space:
Biology, Automotive Technology, Reading, Psychiatric Technology
- Lecture subjects—largest surplus
 - WSCH/Area—class size / fill rate / room size

EXPLORE
OPTIONS

03 > ANALYZING THE EXISTING CAMPUS





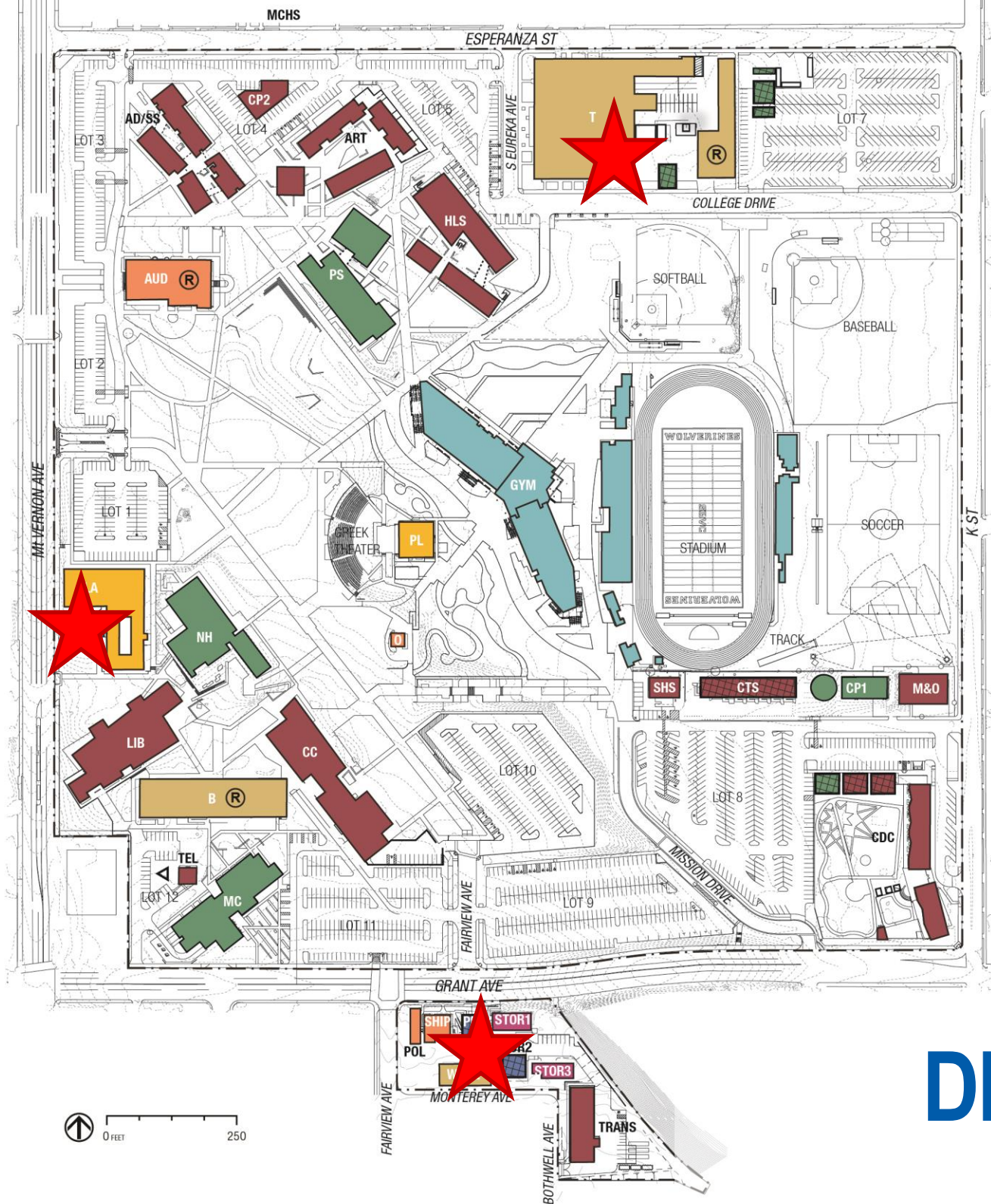
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EXISTING TEMPORARY FACILITIES
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FAULT ZONE
50' SETBACK
FLOOD ZONE

EXISTING CAMPUS



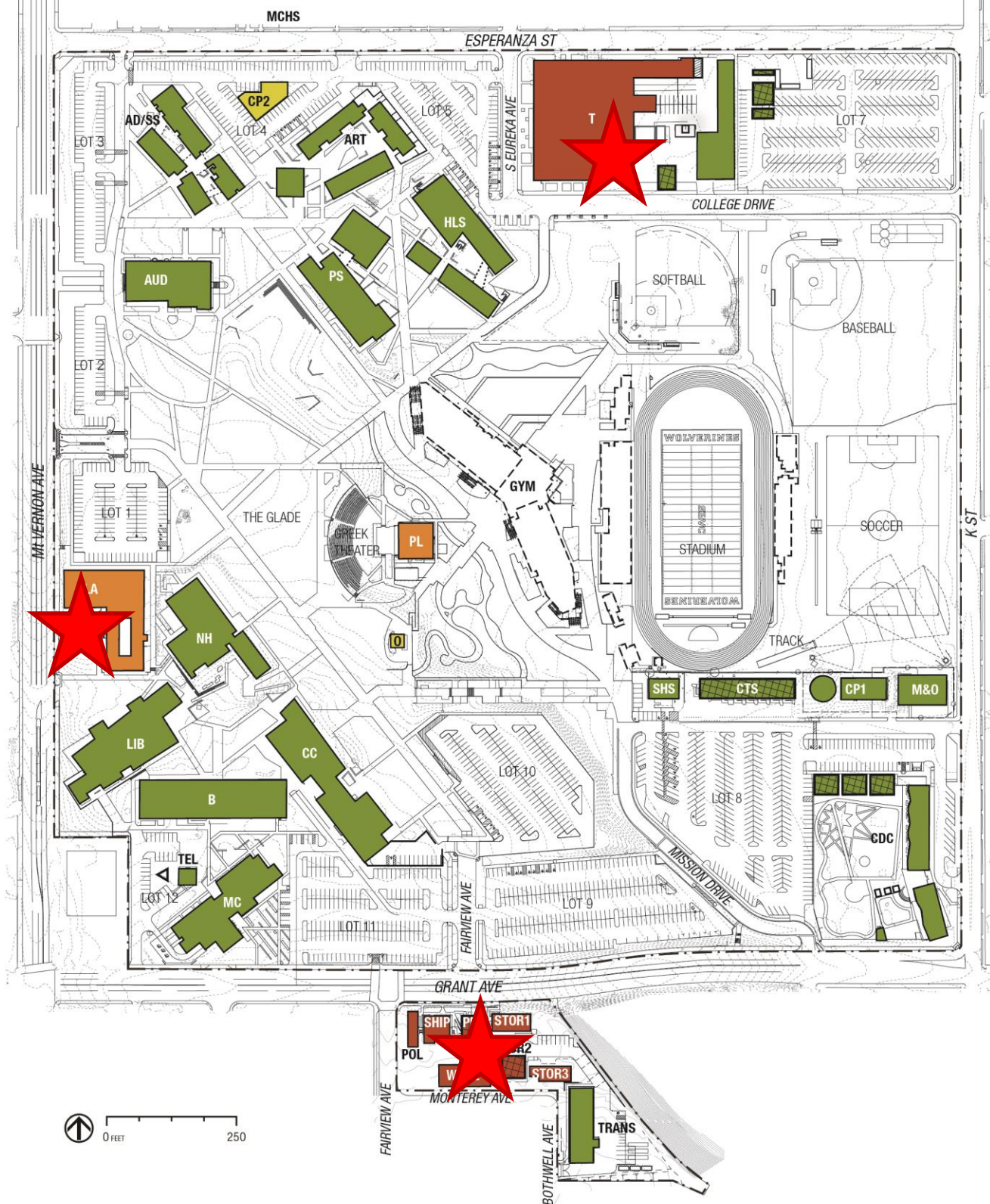
CAMPUS DEVELOPMENT HISTORY

	TEMPORARY FACILITIES
R	RECENTLY RENOVATED
	1930-1939
	1950-1959
	1960-1969
	1970-1979
	1990-1999
	2000-2009
	2010-2017
	UNDER CONSTRUCTION
	PROPERTY LINE

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DEVELOPMENT HISTORY



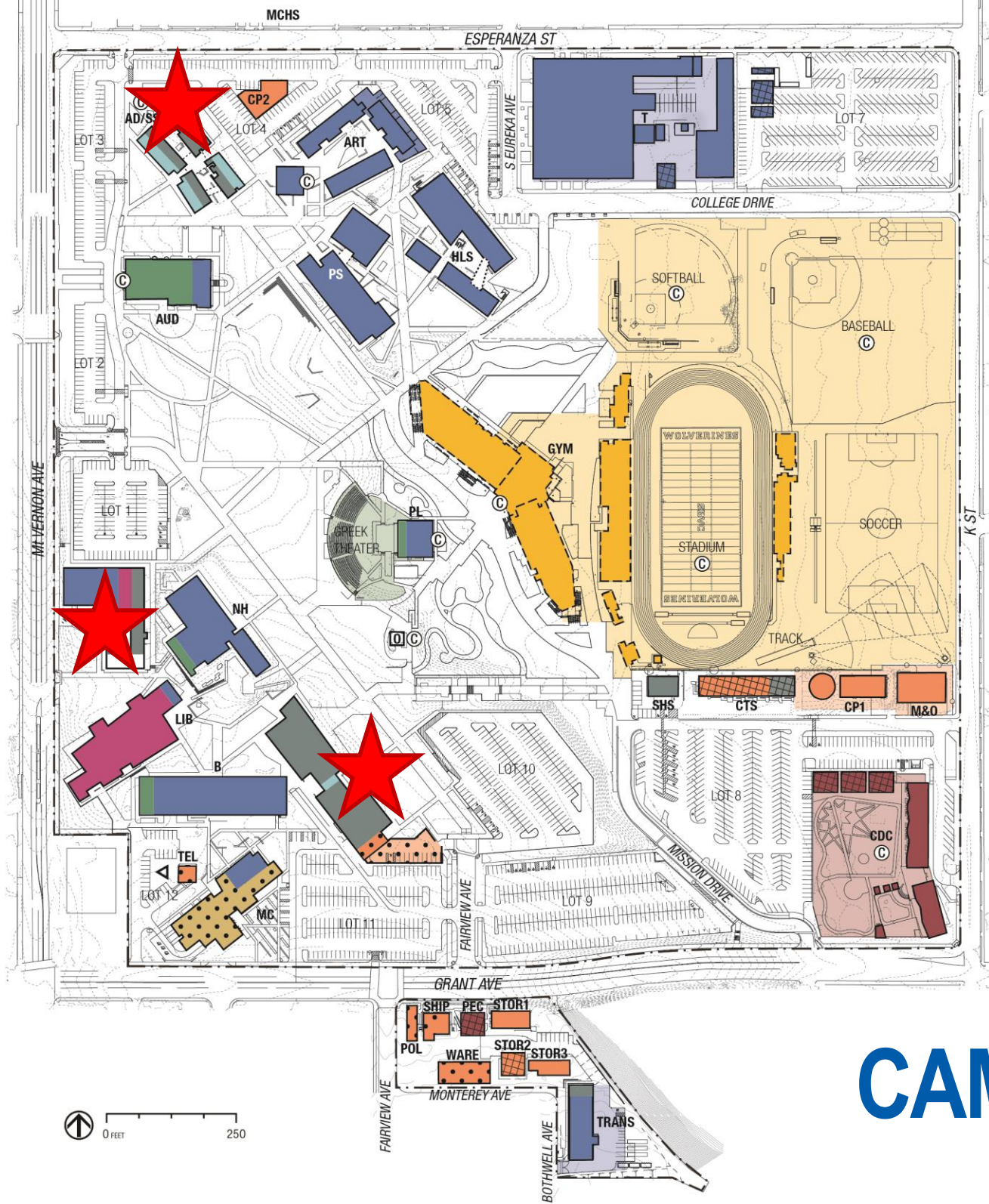
FACILITIES CONDITIONS INDEX

	TEMPORARY FACILITIES
	IN DESIGN/UNDER CONSTRUCTION
	GOOD
	FAIR
	POOR
	VERY POOR
(X%)	FACILITIES CONDITION INDEX
	PROPERTY LINE

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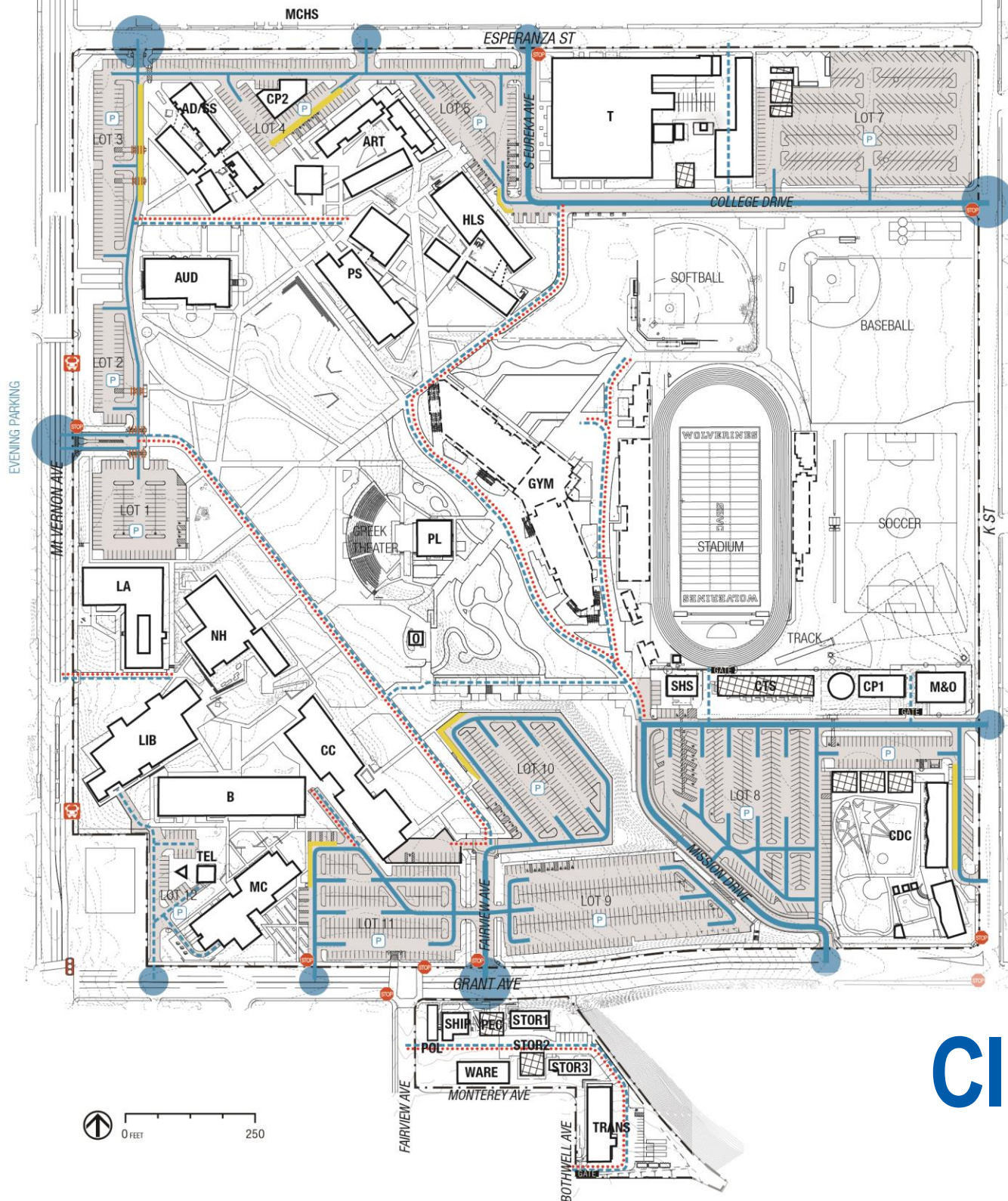
CAMPUS ZONING

	TEMPORARY FACILITIES
	DISTRICT FACILITIES
	IN DESIGN/UNDER CONSTRUCTION
	STUDENT SERVICES + ACTIVITIES
	ADMINISTRATION
	LIBRARY
	INSTRUCTIONAL
	CHILD DEVELOPMENT CENTER
	SERVICE
	PHYSICAL EDUCATION
	EVENT SPACE
	KVCR
	COMMUNITY USE
	EMPTY
	PROPERTY LINE

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CAMPUS ZONING



EXISTING VEHICULAR CIRCULATION

FACILITIES
IN DESIGN/UNDER CONSTRUCTION
TEMPORARY FACILITIES
CAMPUS ENTRY - MAJOR/MINOR
PASSENGER LOADING/DROP OFF ZONE
PARKING AREA
PRIMARY VEHICULAR ROUTE
SECONDARY VEHICULAR ROUTE
SERVICE VEHICULAR ROUTE
EMERGENCY VEHICULAR ROUTE
BICYCLE PARKING
CROSSWALKS
BUS STOPS
TRAFFIC SIGNALS
STOP SIGNS
GATED ENTRY
PROPERTY LINE

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VEHICULAR CIRCULATION & PARKING

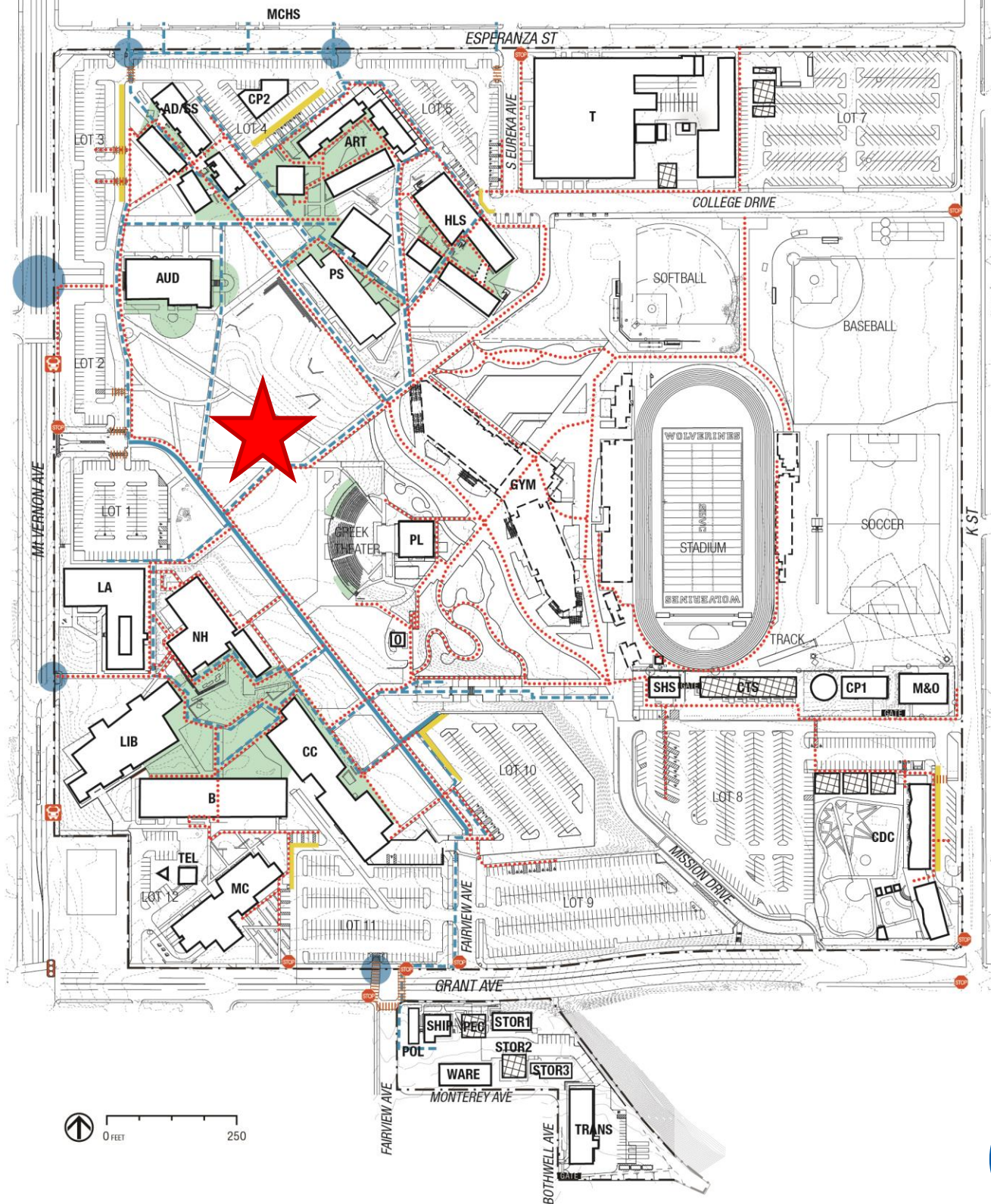
03 > NEEDS + CHALLENGES

EXISTING PARKING COUNT

- On-campus: 1,506 stalls
- Swap meet (MOU): 414 stalls
- **TOTAL: 1,920 stalls**

YEAR	HEAD COUNT	STALL COUNT	RATIO	TARGET RATIO	TOTAL NEED	ADDITIONAL NEEDED WITH SWAP MEET	ADDITIONAL NEEDED WITHOUT SWAP MEET
2016	13,082	1,920	1 STALL / 6.54 HC	1 STALL / 6.00 HC	2,180	260	674
2021	14,040	1,920		1 STALL / 6.00 HC	2,340	420	834
2026	15,060	1,920		1 STALL / 6.00 HC	2,510	590	1,004
2031	16,145	1,920		1 STALL / 6.00 HC	2,691	771	1,185

> VEHICULAR CIRCULATION & PARKING



EXISTING PEDESTRIAN CIRCULATION

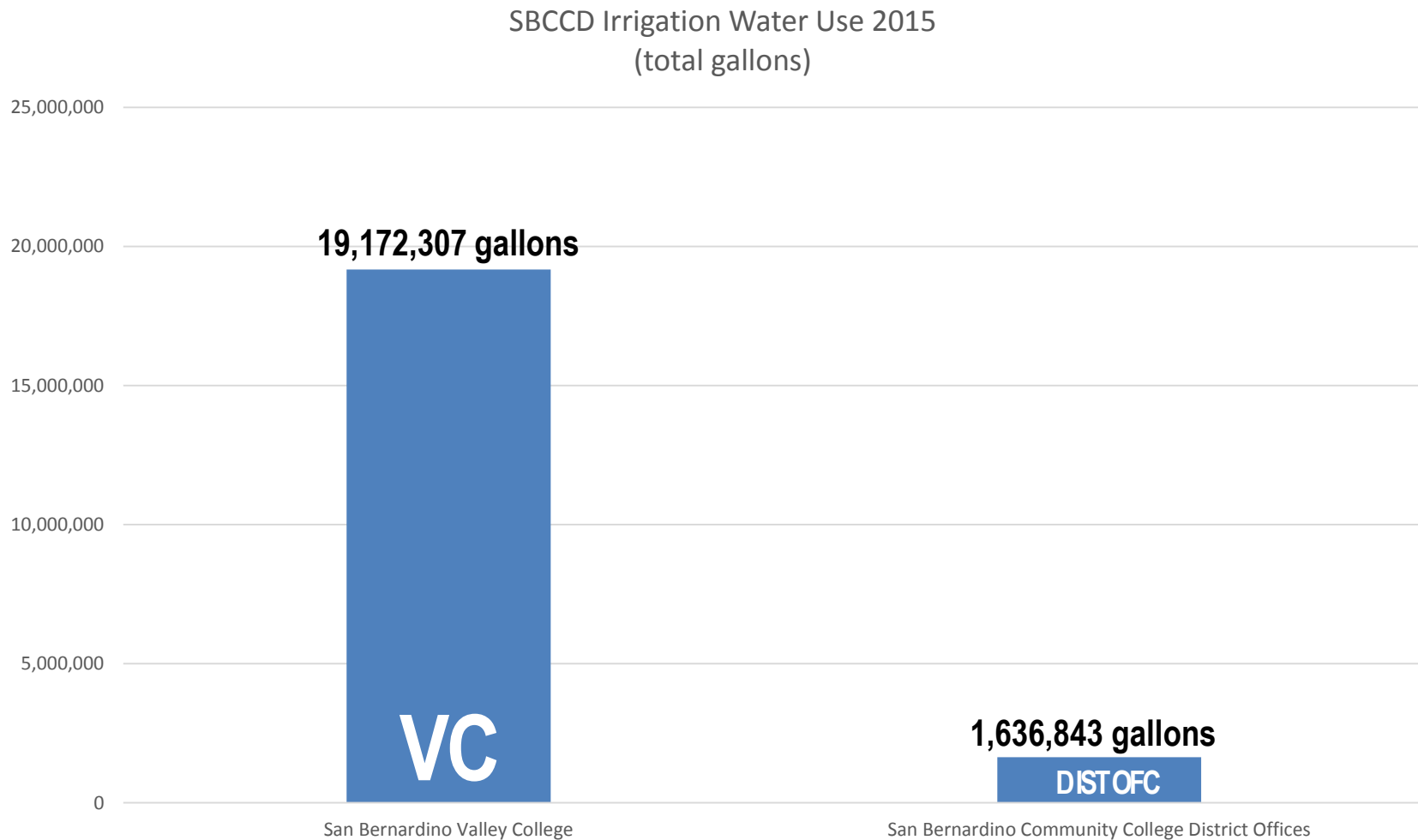
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STUDENT GATHERING AREA
PRIMARY PEDESTRIAN ROUTE
SECONDARY PEDESTRIAN ROUTE
ACCESSIBLE PATH OF TRAVEL
BICYCLE PARKING
CROSSWALKS
BUS STOPS
TRAFFIC SIGNALS
STOP SIGNS
PROPERTY LINE

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PEDESTRIAN CIRCULATION

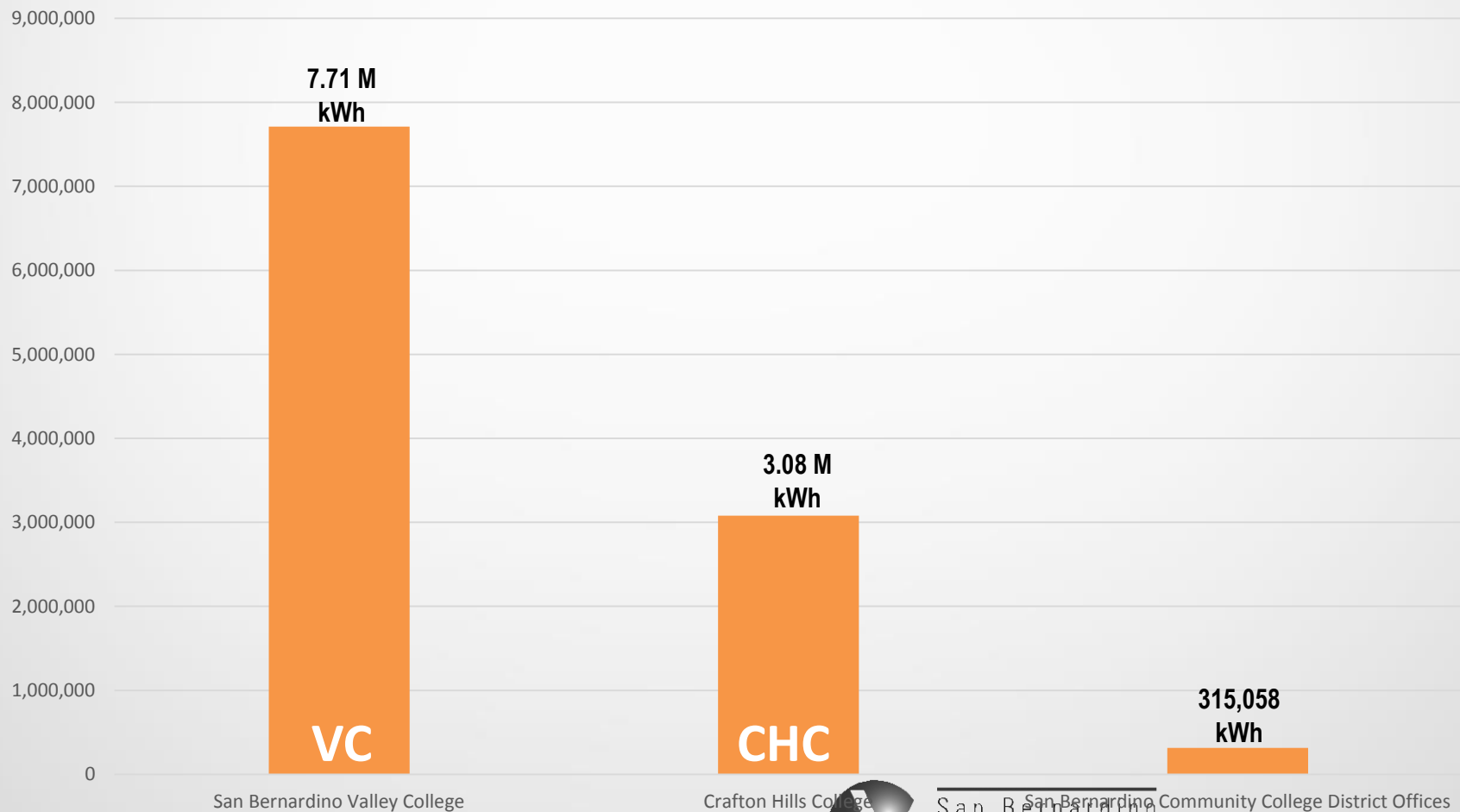
2015 IRRIGATION WATER USE*



*Separate irrigation data for Crafton Hills College was not available.

- **Energy Analysis: Total Electricity Use**

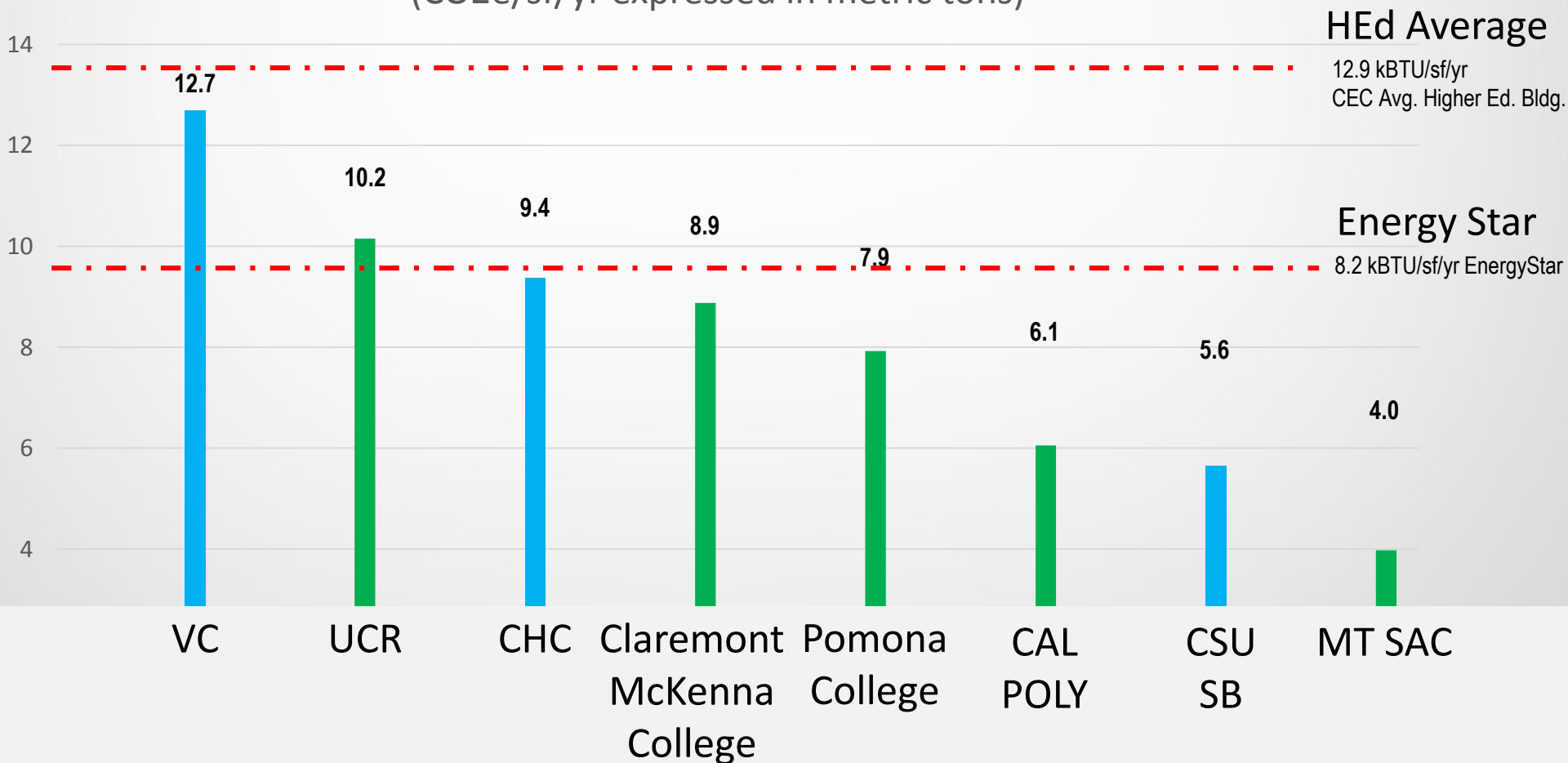
SBCCD Electricity Use 2015 (kWh)



EXPLORE OPTIONS

- Energy Analysis: Carbon Footprint Analysis

Comparative Campus Carbon Footprint Analysis
(CO₂e/sf/yr expressed in metric tons)



EXPLORE
OPTIONS

04 > FOUNDATION FOR CONCEPT



04 > NEEDS + CHALLENGES

> SAN BERNARDINO VALLEY COLLEGE EXISTING SPACE

SPACE TYPE	2017 INVENTORY (ASF)	ADJUSTED INVENTORY* (ASF)	2031 SPACE NEEDS**	DIFFERENCE
Lecture	69,886	66,109	38,913	-27,196
Lab	133,182	133,182	208,742	75,560
Office	70,698	70,785	62,300	-8,485
Library	29,886	29,886	43,638	13,752
Instr. Media	6,577	6,577	12,168	5,591
Other	154,562	139,926	TBD	TBD
TOTALS	464,791	446,465		

* Temporary buildings (Campus Tech. Svcs. (CTS), Portable Conf. Bldg., Portable Classroom, Parent Edu. Ctr., CDC Portables 8-9-10, CDC sheds 1-2, Storage 4 (old CD4), T-122, T-123, T-124) have been removed from 2017 inventory. Inactive offices in LA building considered re-activated.

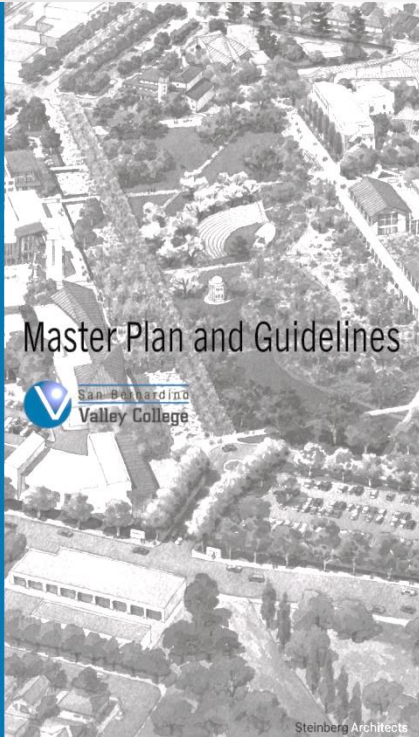
** Calculated from CCCC enrollment projection

04 > NEEDS + CHALLENGES

> SAN BERNARDINO VALLEY COLLEGE 2031 MASTER PLAN SPACE PROGRAM

SPACE TYPE	2017 INVENTORY (ASF)	ADJUSTED INVENTORY* (ASF)	SPACE NEEDS
Athletic/Physical Ed.	45,236	44,339	
Assembly	18,373	18,373	Event & performance space
Exhibition	2,766	2,766	College/SB history & student work
Food Facilities	10,444	10,444	
Lounge	3,875	3,435	Student and faculty lounge
Recreation	627	627	Student recreation
Meeting	12,202	10,698	Meeting & collaboration
M&O / Physical Plant	21,393	19,703	Maintenance shops & storage
Health Service	693	693	Additional space
Inactive	1,215	0	
All Other	37,738	28,848	

04 > NEEDS + CHALLENGES



2009 FACILITIES MASTER PLAN

- No clear Front Door
- No Recognizable Edge to the campus
- Disparate Architectural Styles
- No Hierarchy to organize buildings and open spaces

04 > NEEDS + CHALLENGES

From Program Interviews

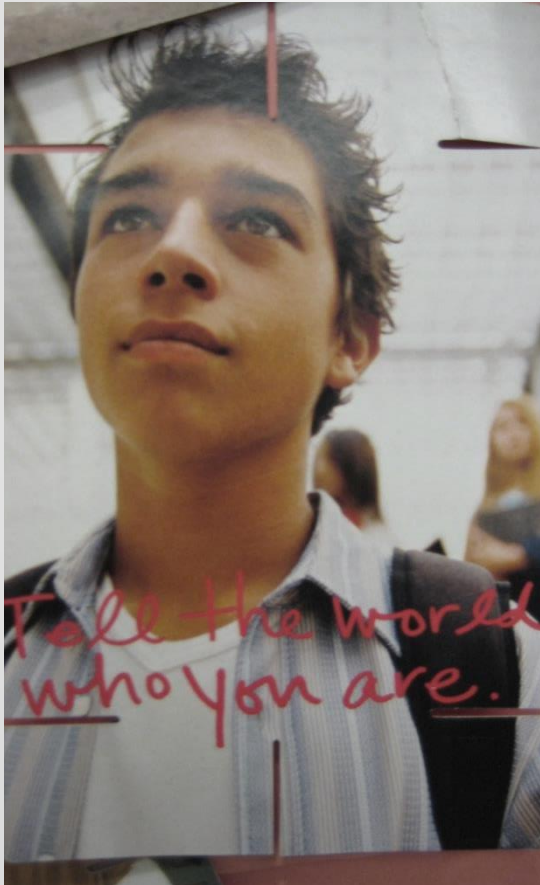
- Flexible classrooms
- Collaboration space
- A one-stop student services
- More open computer labs and tutoring space
- Student-centered and friendly campus
- More parking
- Care for facilities
- Continue sustainable campus development
- Safety & security on campus

04 > NEEDS + CHALLENGES

2016 FMP OBJECTIVES

- Align campus space with the **educational priorities**
- **Maximize** the physical **space** on campus
- Ensure a **student-centered** and friendly campus
- Develop **student gathering** spaces + **activity** zones
- Improve College **visibility** to the community
- Provide **flexible+consistent+well-equipped** instructional spaces
- **Plan for future** teaching and learning opportunities
- **Showcase students'** projects and successes
- Create faculty office space that encourages **collaboration**
- Continue **sustainable** campus development
- Address the **parking** needs and **alternative transportation**
- Allocate resources to **care for facilities**

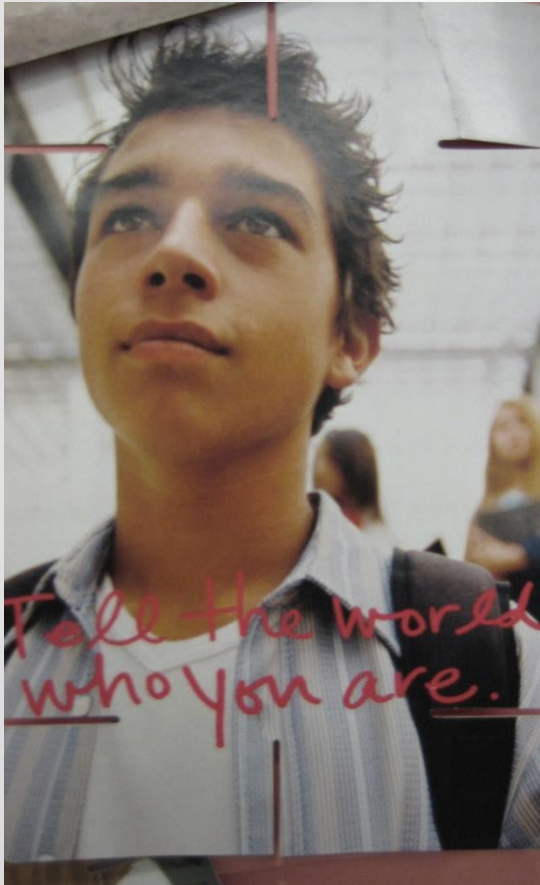
04 > NEEDS + CHALLENGES EMP LINKAGES



2016 EMP DIRECTIONS:

- Balance resources—Transfer, CTE, & Basic Skills
- Broaden the scope of career technical education
- Streamline delivery of basic skills instruction
- Career paths reflect potential jobs with livable wages
- Leadership in adult & non-credit basic skills & ESL instruction

04 > NEEDS + CHALLENGES EMP LINKAGES



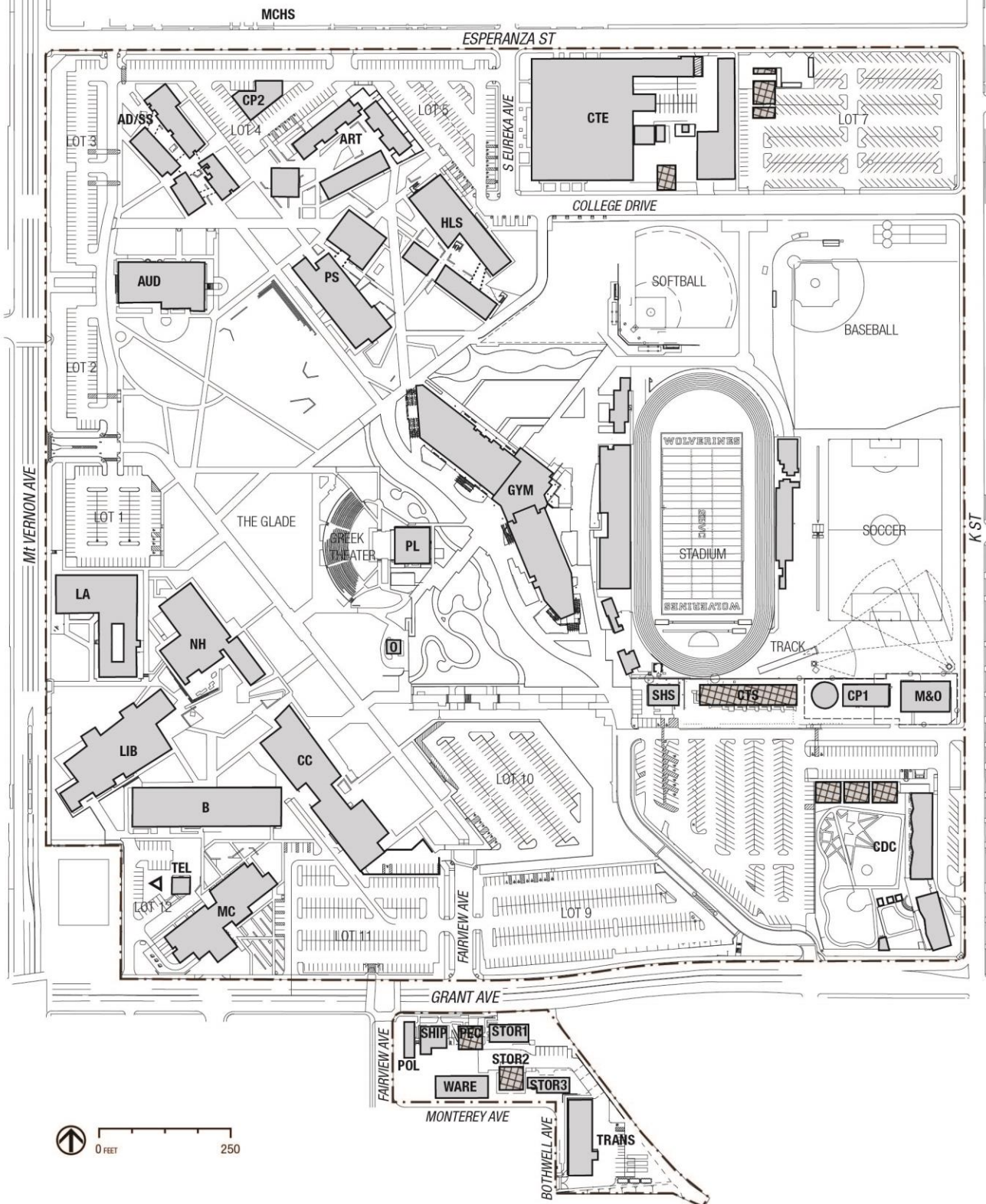
QUESTIONS:

What are the facilities planning implications for:

- Restructuring, basic skills, adult, and non-credit education
- Offering more ESL instruction
- Offering career pathways to address industry needs and to prepare students to earn livable wages.
 - **Short-term direction: Programs to be housed in the new Technical Building?**

05 > EXPLORING CAMPUS OPPORTUNITIES





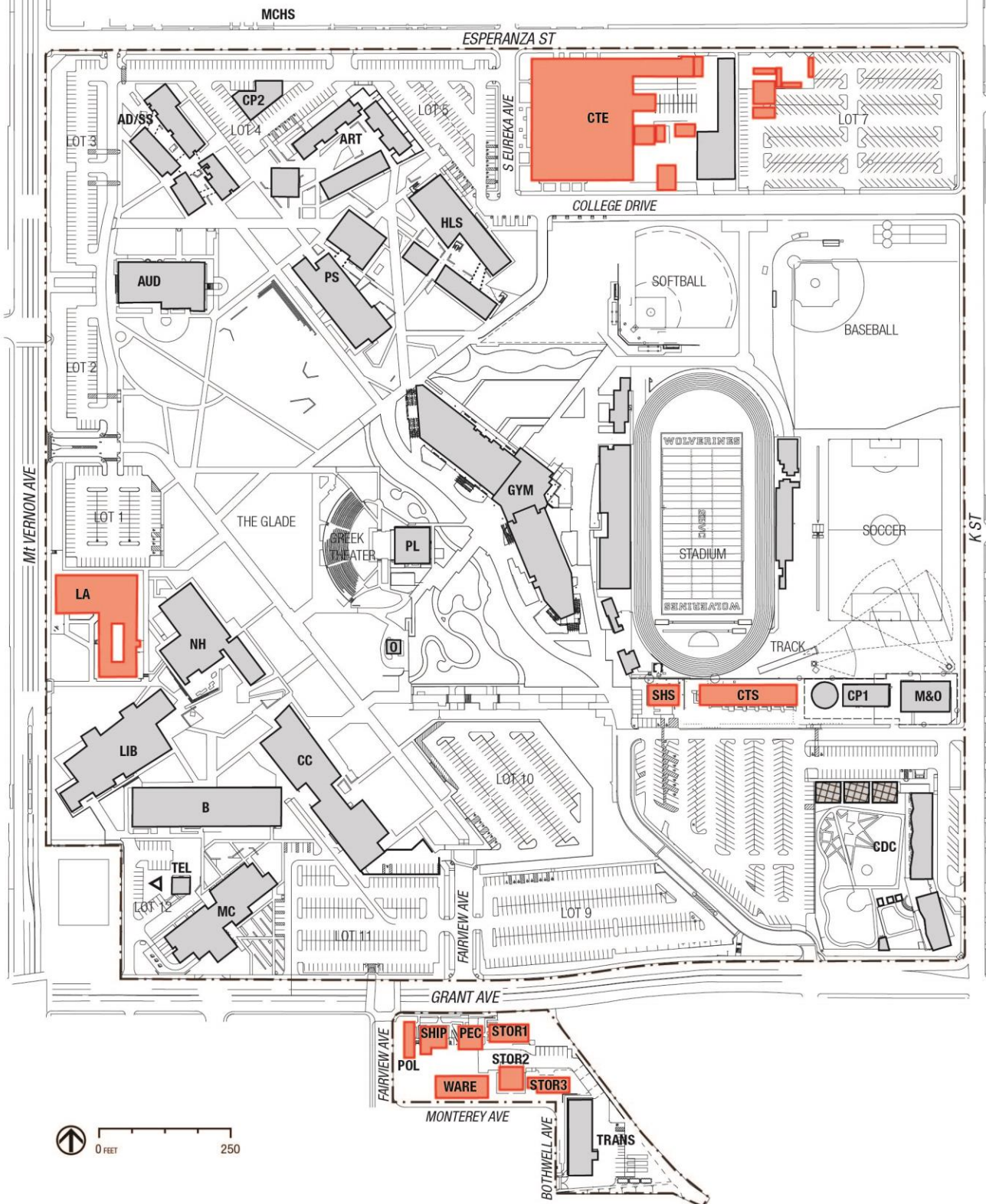
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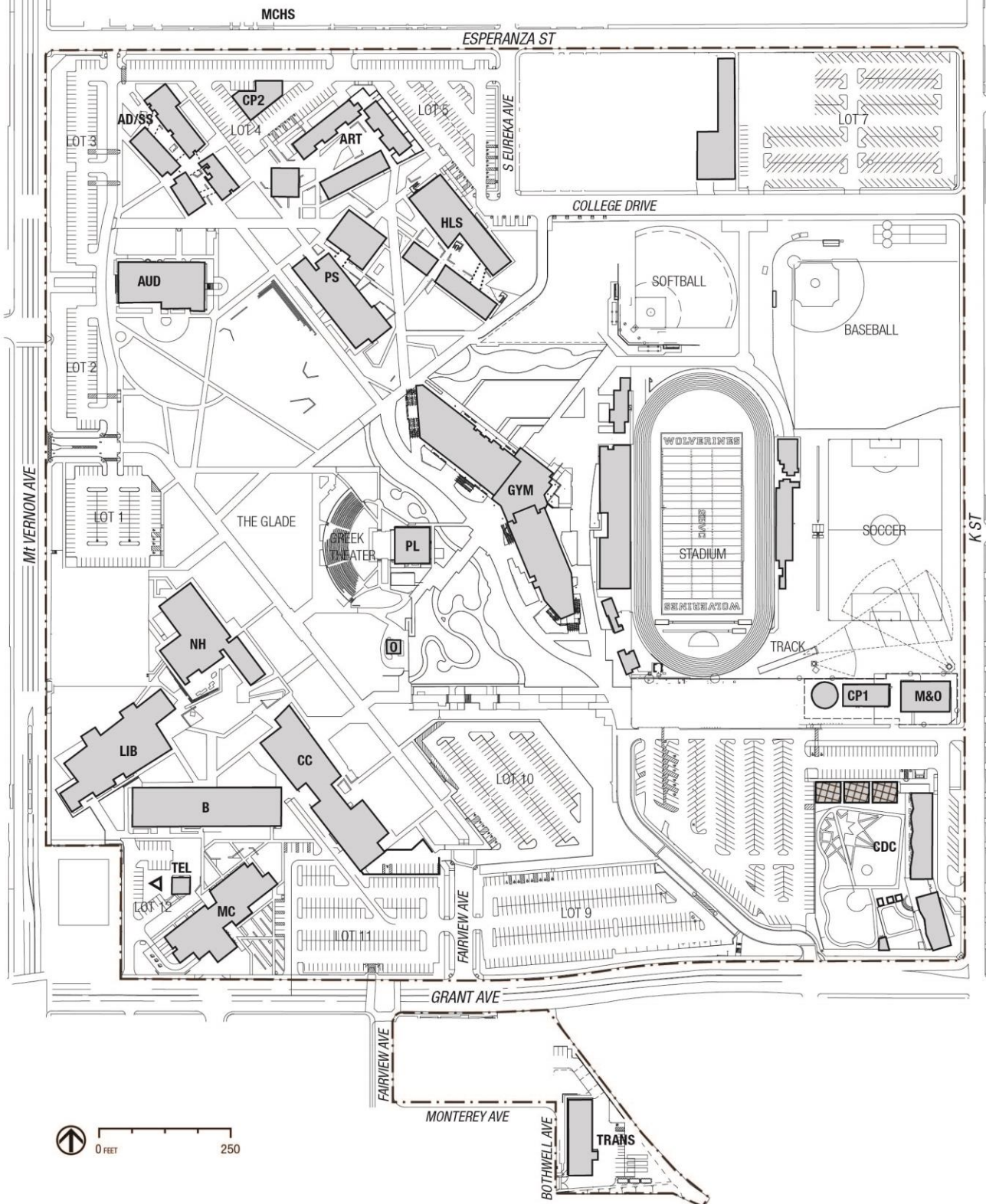
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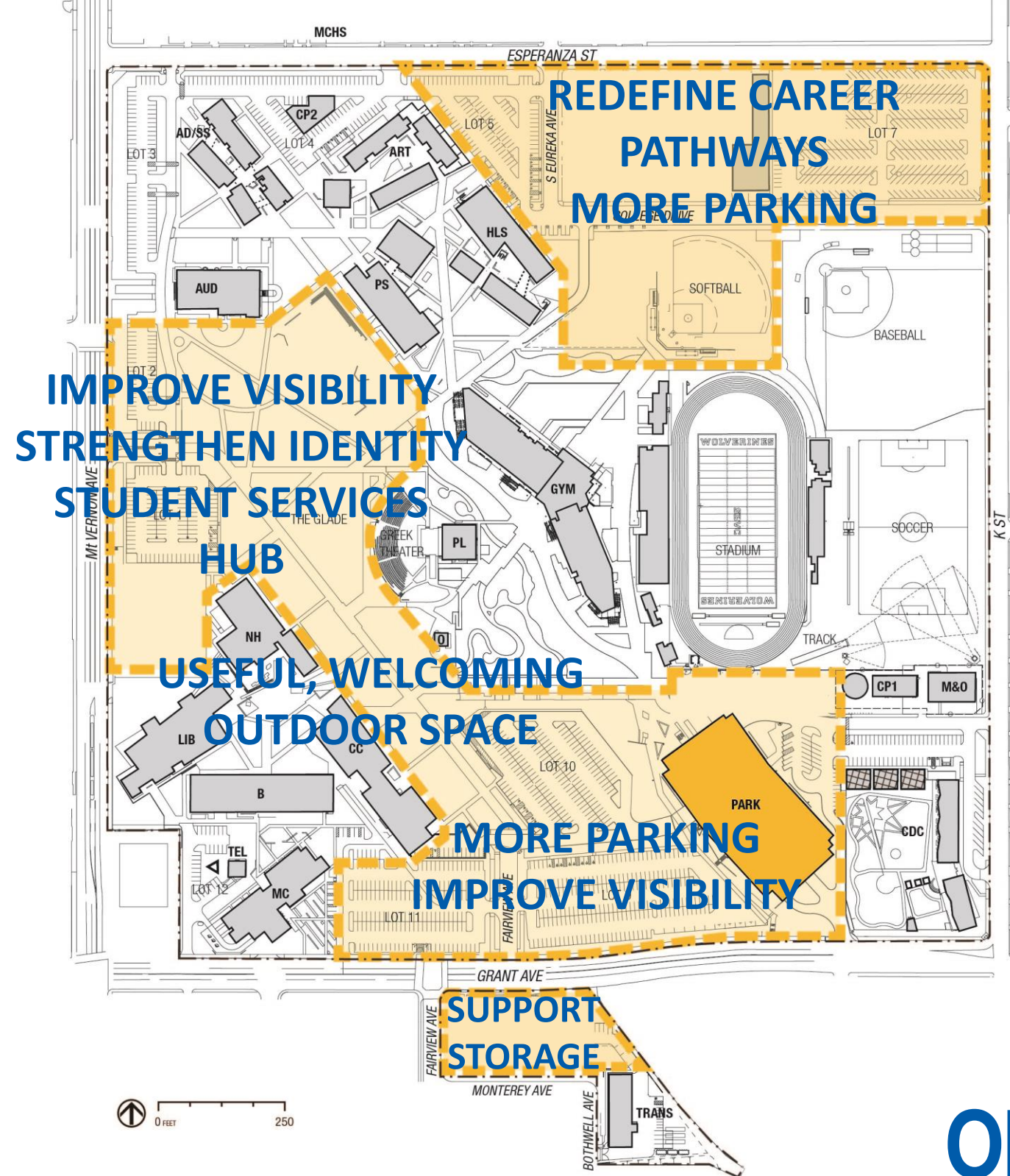
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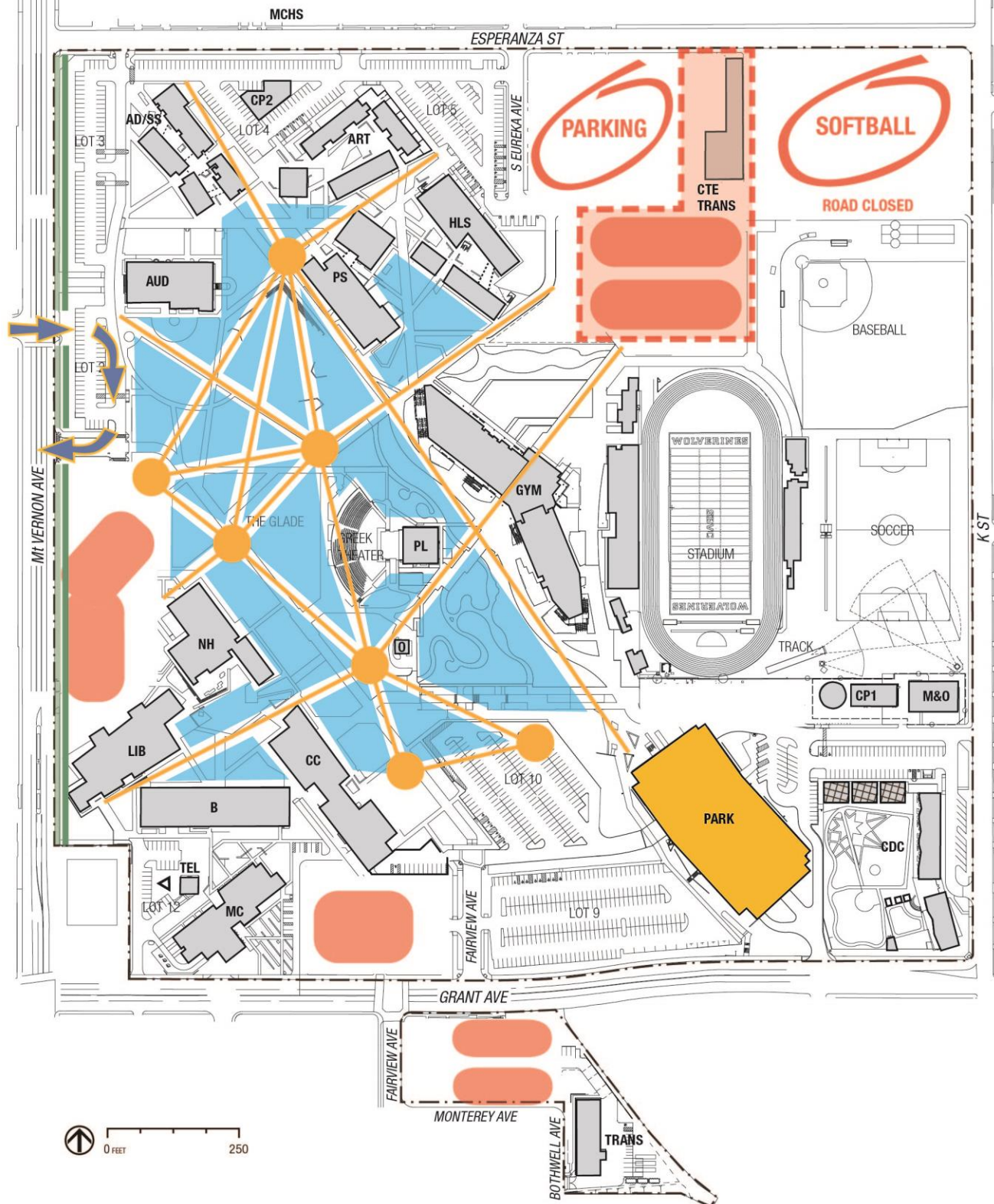


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AUD	AUDITORIUM
B	BUSINESS
CC	CAMPUS CENTER
CP1	CENTRAL PLANT (NEW)
CP2	CENTRAL PLANT (OLD)
CDC	CHILD DEVELOPMENT CENTER
CTE	TECHNICAL
CTS	COMPUTER TECHNOLOGY CENTER
GYM	GYMNASIUM
HLS	HEALTH & LIFE SCIENCE
LA	LIBERAL ARTS
LIB	LIBRARY
M&O	MAINTENANCE & OPERATIONS
MC	MEDIA/COMMUNICATIONS
NH	NORTH HALL
O	OBSERVATORY
PARK	PARKING STRUCTURE
PEC	PARENT EDUCATION CENTER
PS	PHYSICAL SCIENCES
PL	PLANETARIUM
SHIP	SHIPPING & RECEIVING OFFICE
SHS	STUDENT HEALTH SERVICES
TEL	TELECOM BUILDING
TRANS	TRANSPORTATION
WARE	WAREHOUSE



CAMPUS OPPORTUNITIES



SAN BERNARDINO VALLEY COLLEGE 2016 EDUCATIONAL AND FACILITIES MASTER PLAN



	TEMPORARY FACILITIES
	IN DESIGN/UNDER CONSTRUCTION
	PROPERTY LINE

BUILDING KEY

ID	Building Name
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APRIL 13TH WORKSHOP

MCHS

ESPERANZA ST

SAN BERNARDINO VALLEY COLLEGE

2016 EDUCATIONAL AND FACILITIES MASTER PLAN



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SS/INST	STUDENT SERVICES/ INSTRUCTIONAL BUILDING
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WARE	WAREHOUSE

LEGEND

---	PROPERTY LINE
█	EXISTING FACILITIES
█	RENOVATION OF FACILITIES
█	NEW FACILITIES



0 FEET

250

PARKING

MILVERNON AVE

K ST

GRANT AVE

MONTEREY AVE

FAIRVIEW AVE

BOTHWELL AVE

SOFTBALL

BASEBALL

SOCCER

TRACK

PATH1

PATH2

VOLLEYBALL

STADIUM

BERNARDINO

LOT 5A

LOT 6

CP2

LOT 4

AD

ART

LOT 3

AUD

PS

HLS

CREEK THEATER

PL

GYM

SS/INST

NH

O

LIB

B

CC

TEL

MC

PAC

PRK

LOT 8

CDC

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

WARE 1

WARE 2

M&O

MCHS

ESPERANZA ST

SAN BERNARDINO VALLEY COLLEGE

2016 EDUCATIONAL AND FACILITIES MASTER PLAN



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LEGEND

PROPERTY LINE

FACILITIES



0 FEET

250

PARKING

MILVERNON AVE

K ST

GRANT AVE

FAIRVIEW AVE

MONTEREY AVE

BOTHWELL AVE

LOT 13

WARE 2

WARE 1

M&O

SOFTBALL

BASEBALL

SOCCER

PATH1

PATH2

STADIUM

TRACK

CP1

GRND

LOT 8

LOT 10

LOT 9

PRK

PAC

MC

TEL

LIB

NH

SS/INST

CREEK THEATER

PL

GYM

PS

AUD

ART

AD

CP2

LOT 4

LOT 5

LOT 5A

LEGEND

- ① *Alder rhombifolia*
White Alder
- ② *Cercidium x 'Desert Museum'*
Thornless Palo Verde
- ③ *Ginkgo biloba 'Autumn Gold'*
Ginkgo Tree
- ④ *Pinus canariensis*
Canary Island Pine
- ⑤ *Platanus racemosa*
California Sycamore
- ⑥ *Quercus agrifolia*
Coast Live Oak
- ⑦ *Sequoia sempervirens*
Coast Redwood



Design Development Plan (03/17/14)

SBVC Gymnasium
San Bernardino, CA

Prepared for:
San Bernardino Valley College

March 2014



LEGEND

- ① *Alder rhombifolia*
White Alder
- ② *Calocedrus decurrens*
Incense Cedar
- ③ *Cercidium* x 'Desert Museum'
Thornless Palo Verde
- ④ *Cercis occidentalis*
Western Redbud
- ⑤ *Chilopsis linearis*
Desert Willow
- ⑥ *Ginkgo biloba* 'Autumn Gold'
Ginkgo Tree
- ⑦ *Juniperus californica*
California Juniper
- ⑧ *Pinus canariensis*
Canary Island Pine
- ⑨ *Pinus edulis*
Pinyon Pine
- ⑩ *Pinus halepensis*
Aleppo Pine
- ⑪ *Platanus racemosa*
California Sycamore
- ⑫ *Quercus agrifolia*
Coast Live Oak
- ⑬ *Sequoia sempervirens*
Coast Redwood

⑭ Mesozoic Garden

Alsophila australis
Australian Tree Fern

Cycas revoluta
Sago Palm

Polystichum munitum
Sword Fern

⑮ Dry Woodland Zone

Artemisia tridentata
Great Basin Sagebrush

Encelia farinosa
Brittlebush

Eriogonum fasciculatum
California Buckwheat

Larrea tridentata
Creosote Bush

Salvia melifera
Black Sage

⑯ Desert Habitat

Agave spp.

Aloe arborescens
Torch Aloe

Asclepias subulata
Desert Milkweed

Crassula arborescens
Silver Dollar Plant

Crassula ovata
Jade Plant

Dudleya brittanii (green form)
Chalk Dudleya

Dudleya cymosa
Lifeforever

Echinocactus grusonii
Golden Barrel Cactus

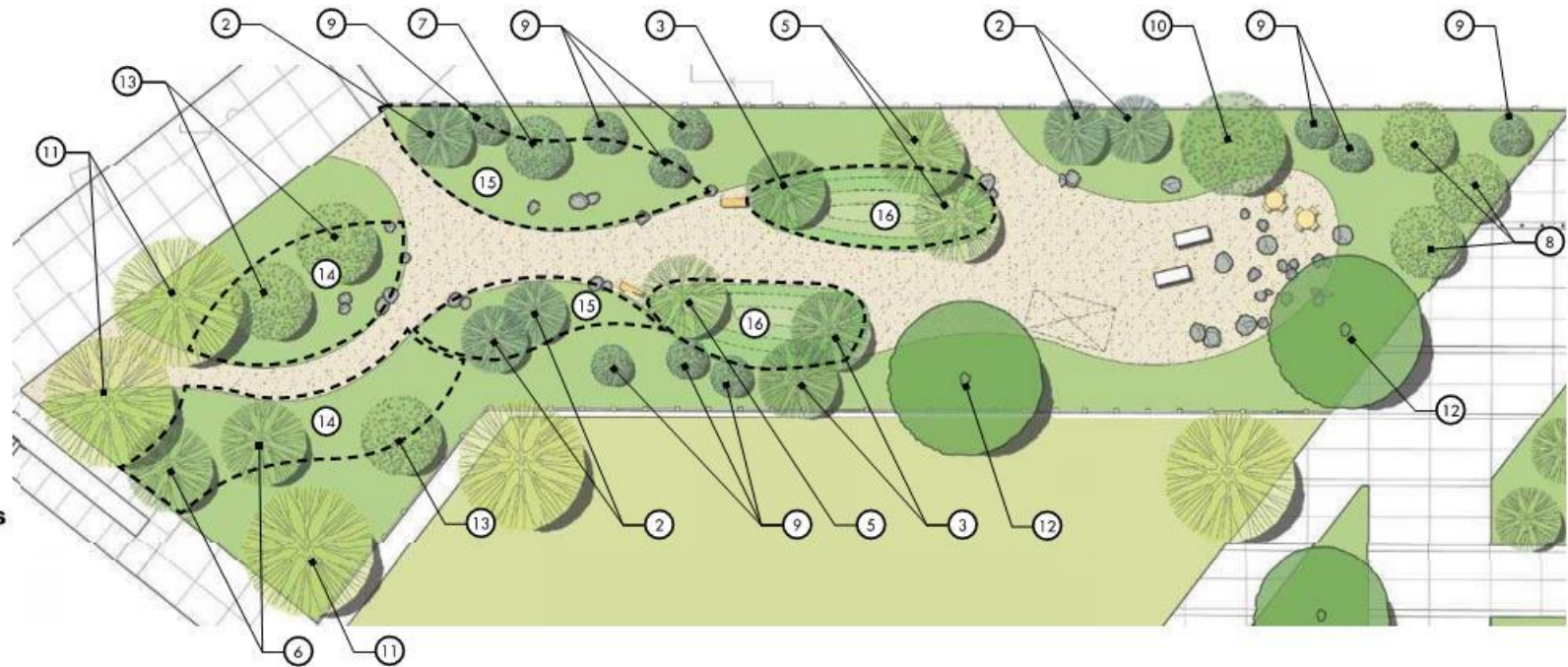
Echinopsis huascha (red)
Red Torch Cactus

Ferocactus cylindraceus
California Barrel Cactus

Fouquieria splendens
Octoloba

Hesperaloe parviflora
Red Yucca

Yucca spp.



Biology Teaching Gardens

SBVC Gymnasium
San Bernardino, CA

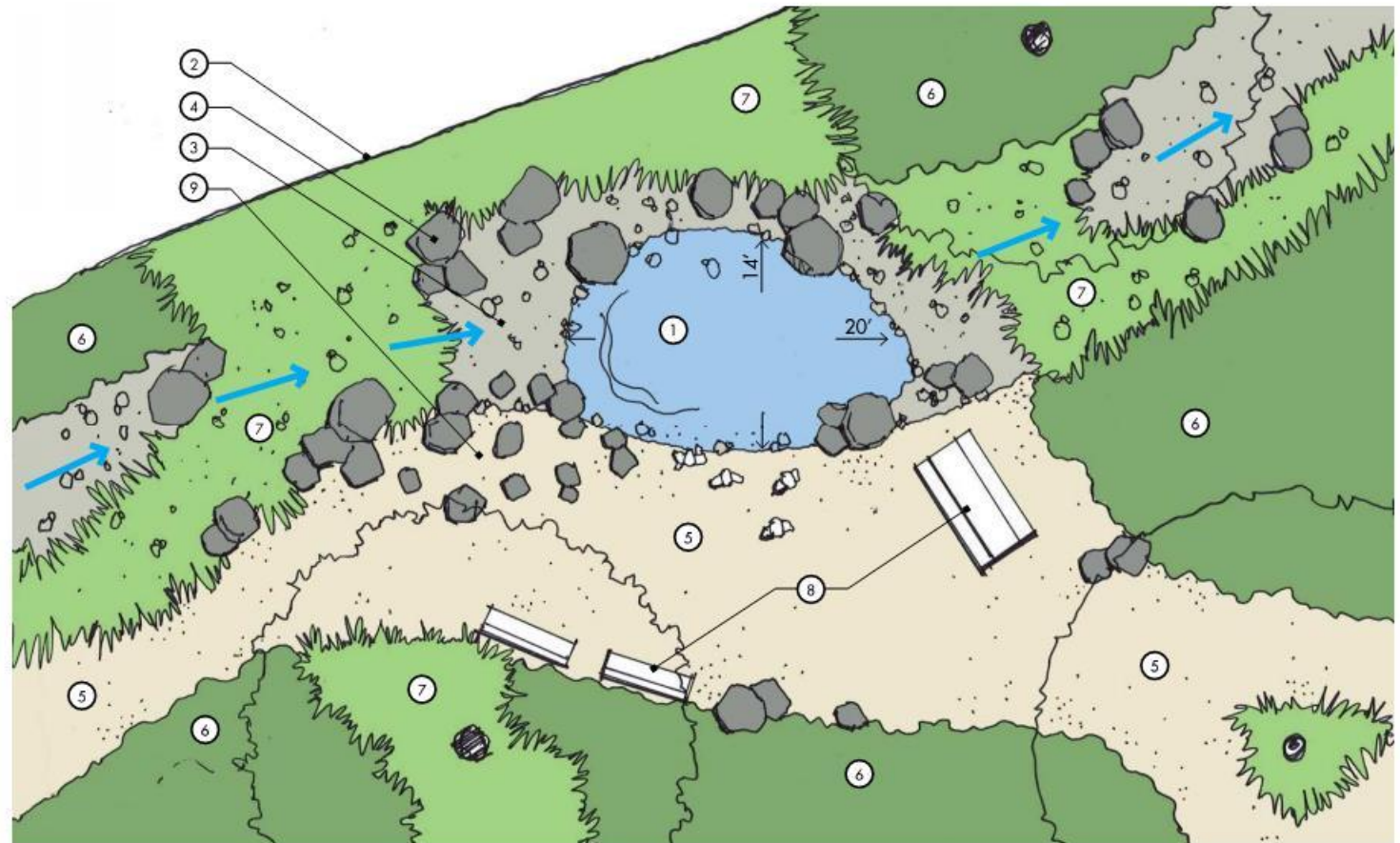
Prepared for:
San Bernardino Valley College

March 2014



LEGEND

- ① Natural Pond with Concrete Liner and Crushed Stone Bottom
- ② Concrete Boardwalk Edge at Gymnasium
- ③ Dry Stream Bed with Cobble and Crushed Stone
- ④ Boulder, 2' to 4'
- ⑤ Decomposed Granite Path
- ⑥ Spreading Groundcover
- ⑦ Low Grasses with Accent Plantings
- ⑧ Bench and Picnic Table Seating
- ⑨ Informal Boulder Seating



Pond Enlargement (03/17/14)

SBVC Gymnasium
San Bernardino, CA

Prepared for:
San Bernardino Valley College

March 2014



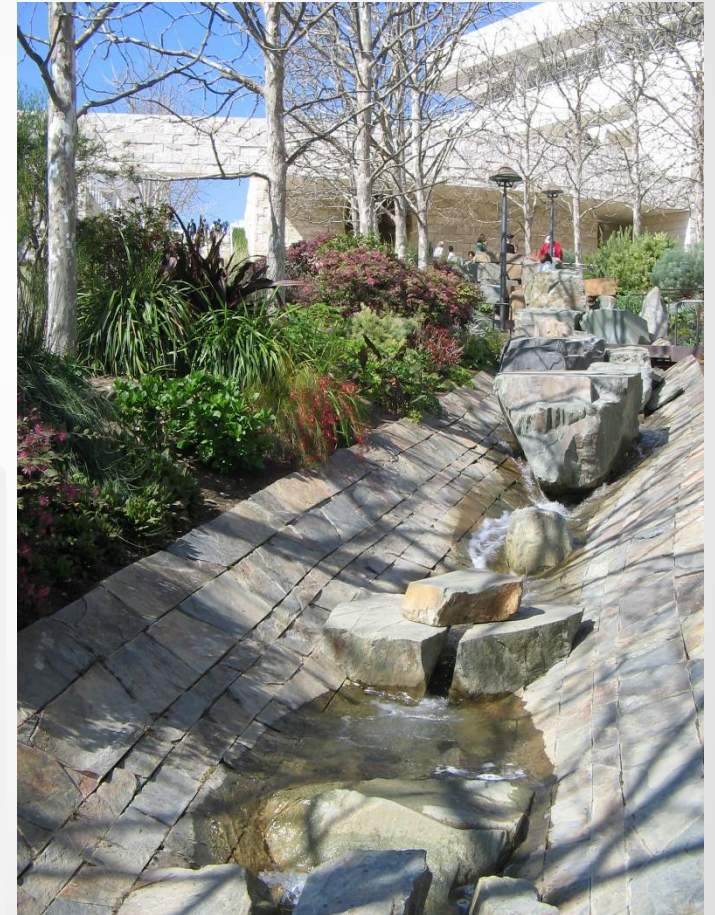
EXPLORE
OPTIONS

Concept Images



EXPLORE
OPTIONS

Concept Images



EXPLORE
OPTIONS

Concept Images





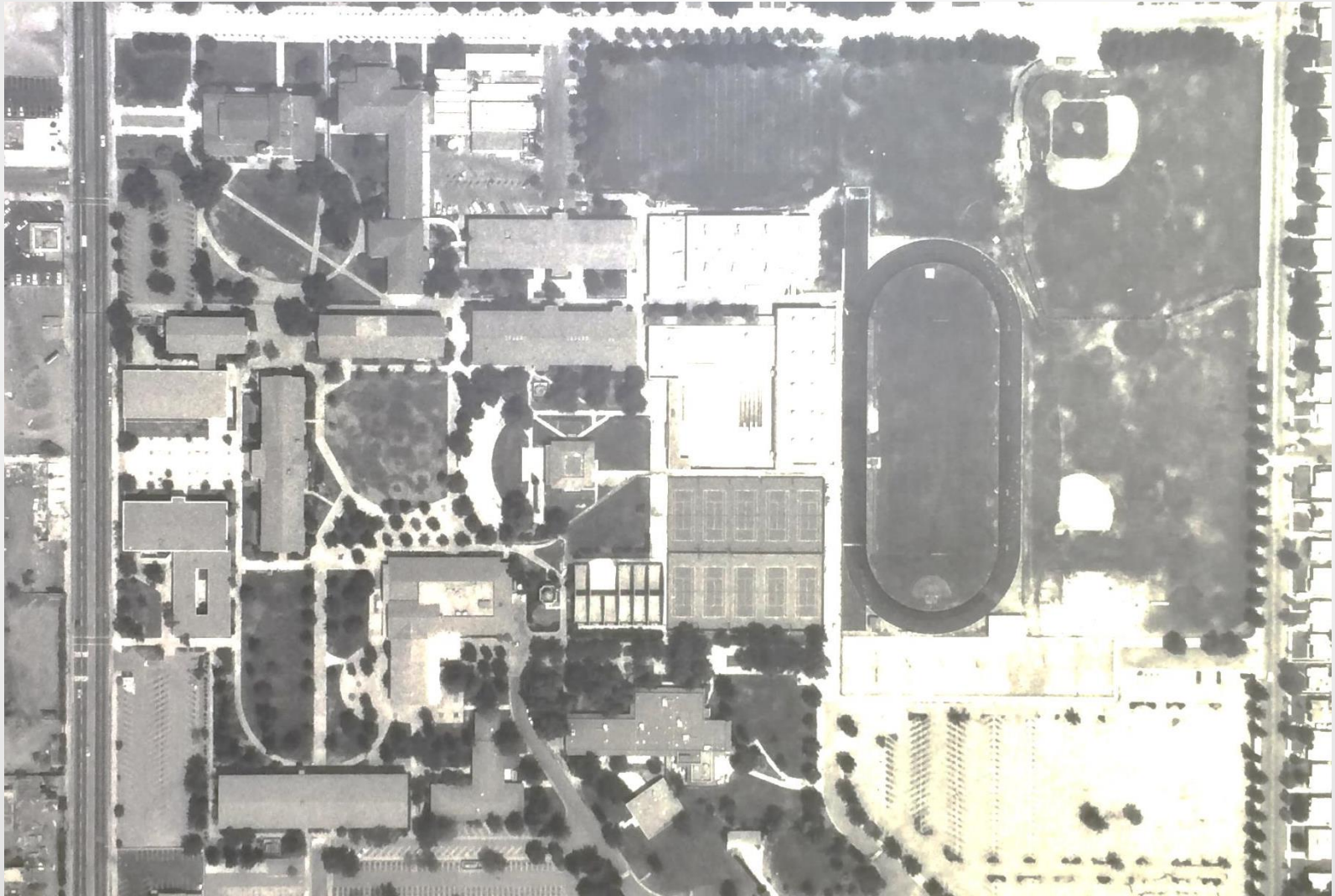






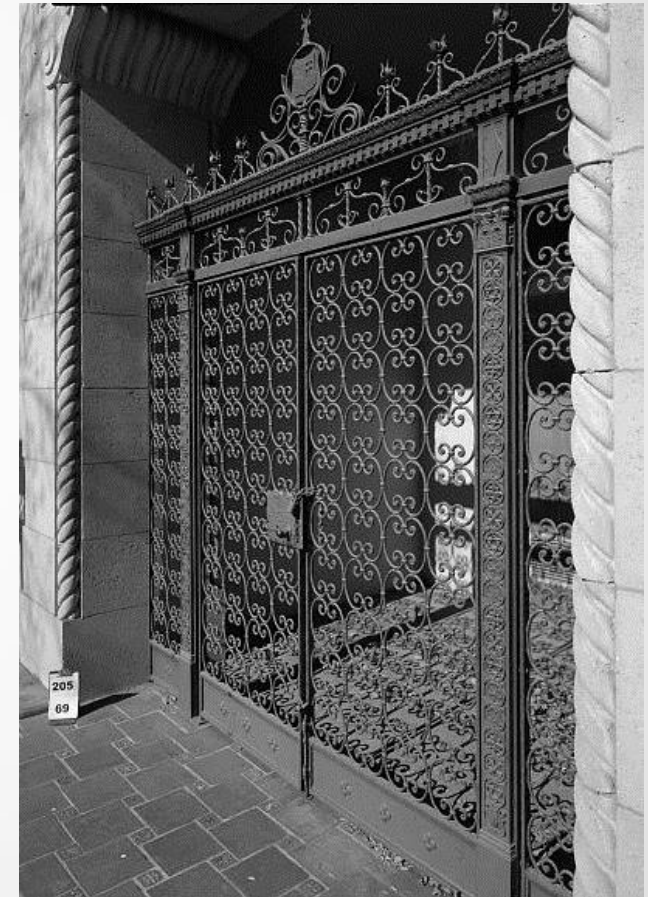
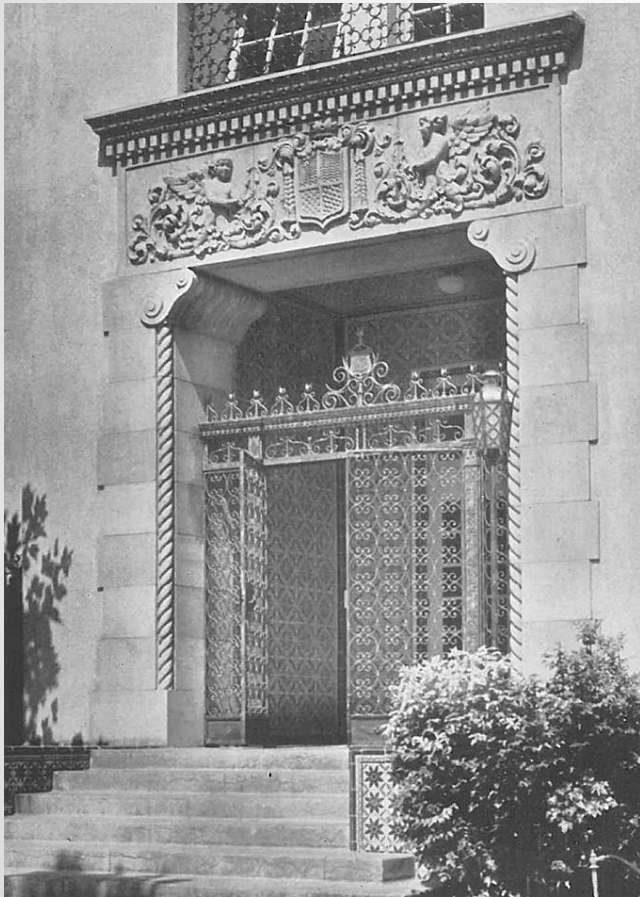
EXPLORE
OPTIONS

05 > SALUTING HISTORY



EXPLORE
OPTIONS

Saluting the past while embracing the future



**Saved architectural
elements**

RECOMMENDED PROJECTS

- **NEW FACILITIES**
- **REPURPOSING OF FACILITIES**
- **CAMPUS-WIDE PROJECTS**
- **EXPLORATION OF FUTURE OPTIONS**

MCHS

ESPERANZA ST

SAN BERNARDINO VALLEY COLLEGE

2016 EDUCATIONAL AND FACILITIES MASTER PLAN



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LEGEND

---	PROPERTY LINE
■	EXISTING FACILITIES
■	RENOVATION OF FACILITIES
■	NEW FACILITIES



0 FEET 250

PARKING

MILVERNON AVE

K ST

GRANT AVE

MONTEREY AVE

FAIRVIEW AVE

BOTHWELL AVE

SOFTBALL

BASEBALL

SOCCER

TRACK

PATH1

PATH2

GYM

STADIUM

WOLFEHART

BERNARDINO

CP1

GRND

LOT 8

CDC

LOT 9

PAC

MC

TEL

B

CC

LIB

NH

SS/INST

AUD

PS

HLS

ART

CP2

AD

LOT 3

LOT 4

LOT 5A

LOT 6

LOT 7

LOT 10

LOT 11

LOT 12

LOT 13

WARE 1

WARE 2

M&O



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LEGEND

---	PROPERTY LINE
■	EXISTING FACILITIES
■	RENOVATION OF FACILITIES
■	NEW FACILITIES
---	POOLS

**STUDENT
SERVICES/INSTRUCTION**

**CAREER PATHWAYS
PHASE 1**

**CAREER PATHWAYS
PHASE 2**

AQUATIC CENTER

PARKING STRUCTURE

**PERFORMING ARTS
CENTER**

**COLLEGE
WAREHOUSE**

**DISTRICT
WAREHOUSE**

**NEW
FACILITIES**

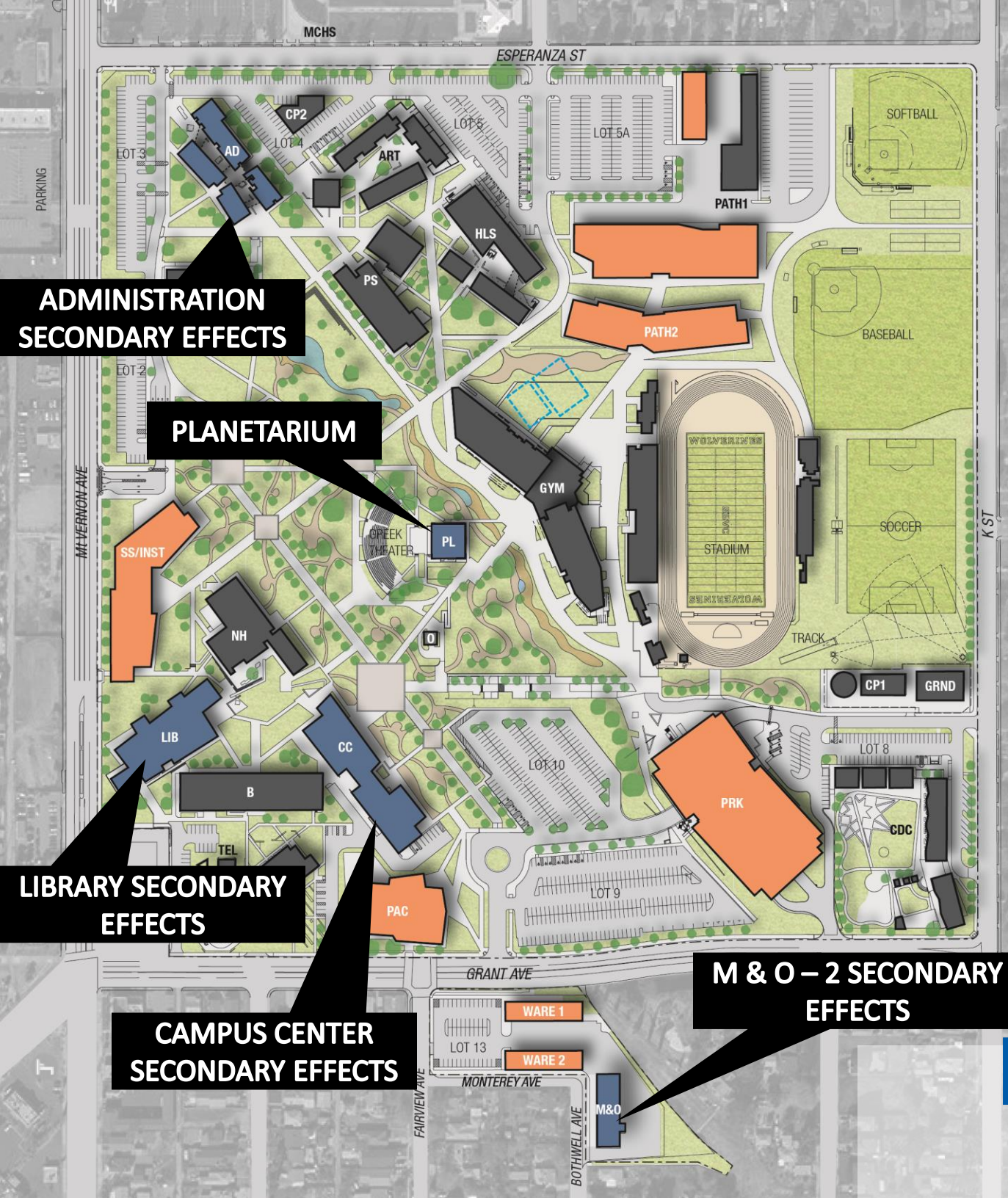


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LEGEND

---	PROPERTY LINE
■	EXISTING FACILITIES
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■	NEW FACILITIES
- - -	POOLS



**REPURPOSING
OF FACILITIES**

RECOMMENDED PROJECTS

- **CAMPUS-WIDE PROJECTS**
 - **LEARNING ENVIRONMENT UPGRADES**
 - **ENRICHED OUTDOOR ENVIRONMENT UPGRADES**
 - **CIRCULATION & ACCESSIBILITY UPGRADES**
 - **SECURITY & SAFETY UPGRADES**
 - **CENTRAL PLANT EXPANSION**
 - **ANCILLARY LOGISTICAL & INFRASTRUCTURE PROJECTS**

SAN BERNARDINO VALLEY COLLEGE EDUCATIONAL & FACILITIES MASTER PLAN

06 > NEXT STEPS

- **EDUCATIONAL PLANNING**
 - EMP draft – May 19-23rd
 - Review comments due – September 9th?
- **FACILITIES PLANNING**
 - FMP draft – July 1st
 - Review comments due – September 9th?

SAN BERNARDINO VALLEY COLLEGE EDUCATIONAL & FACILITIES MASTER PLAN

06 > NEXT STEPS

- **FALL 2016 MASTER PLANNING ACTIVITIES**
 - ??
 - College Council – approval of EMP and FMP
- **WEBPAGE:**
http://www.sbccd.org/research/Institutional_Effectiveness/Planning_Consultants/Documents_Provided_by_Planning_Consultants