





## **Building for Qualitative not Quantitative Growth**

Projected academic growth will be accommodated through **improved space utilization without new academic buildings**. Nonetheless, targeted new construction will improve the quality of the science laboratories and the IT servers.

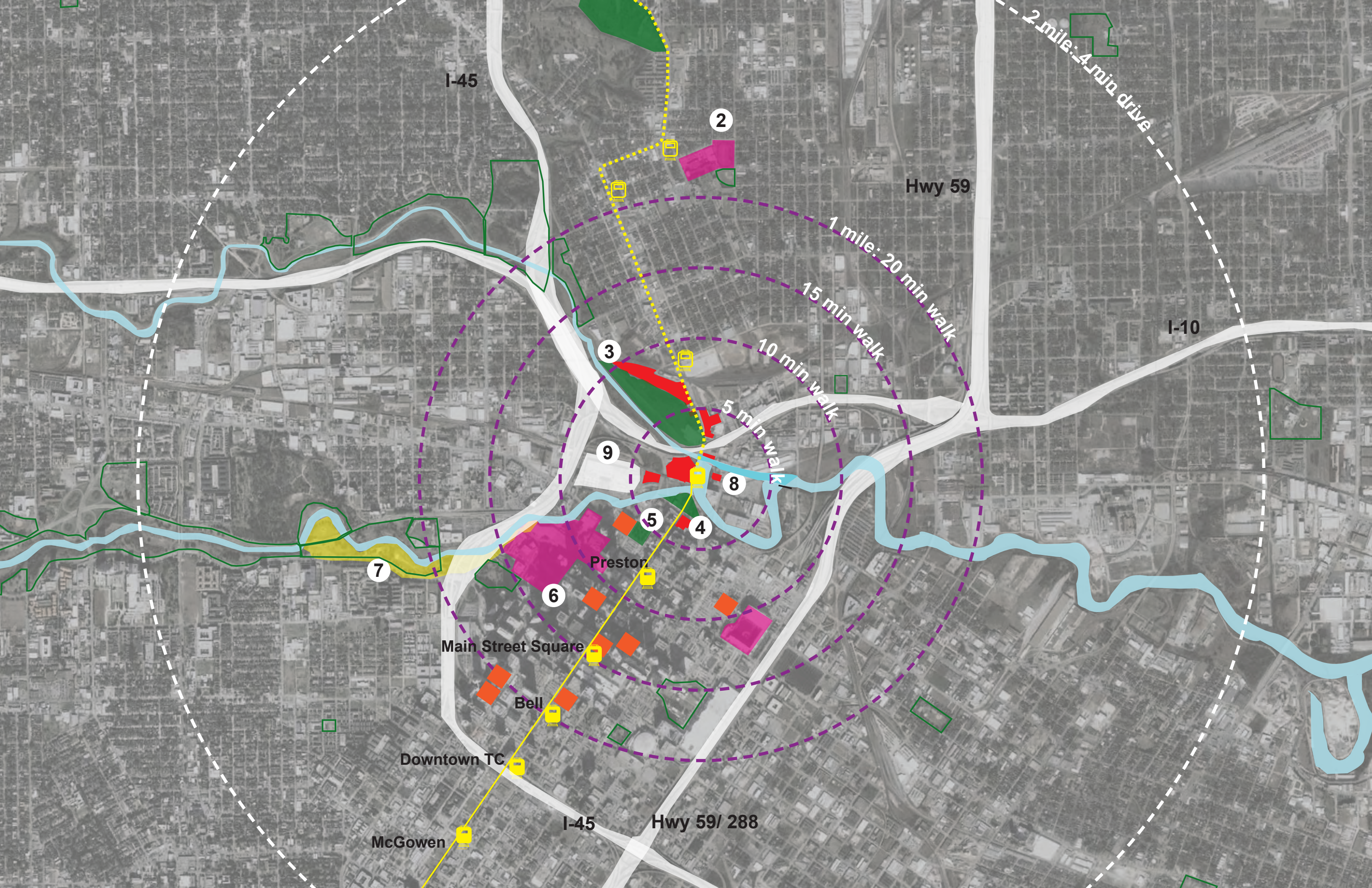
## **Collaboratively Focusing on Main Street and the Bayous**

The Main Street corridor will serve as the **pedestrian heart of the campus** overlaid on the bayous which are key recreational, environmental and transportational amenities.

## **Addressing the Parking Deficit**

The **construction of a 1700 space parking garage** on a university-owned surface lot will greatly relieve current the student parking space deficit.





I-45

Hwy 59

I-10

2 mile: 4 min drive

1 mile: 20 min walk

15 min walk

10 min walk

5 min walk

7

3

2

9

8

5

4

6

Main Street Square

Preston

Bell

Downtown TC










McGowen

I-45

Hwy 59/ 288



# URBAN CONTEXT

-  Parks
-  Major Urban Nodes
-  Water
-  North Channel
-  3rd Party Parking
-  Improved BBP Promenade
-  Green Zone
-  METRO Rail Stop
-  Future METRO Rail Stop

I-45

Hwy 59

I-10

2 mile: 4 min drive

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15 min walk

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6

Main Street Square

Preston

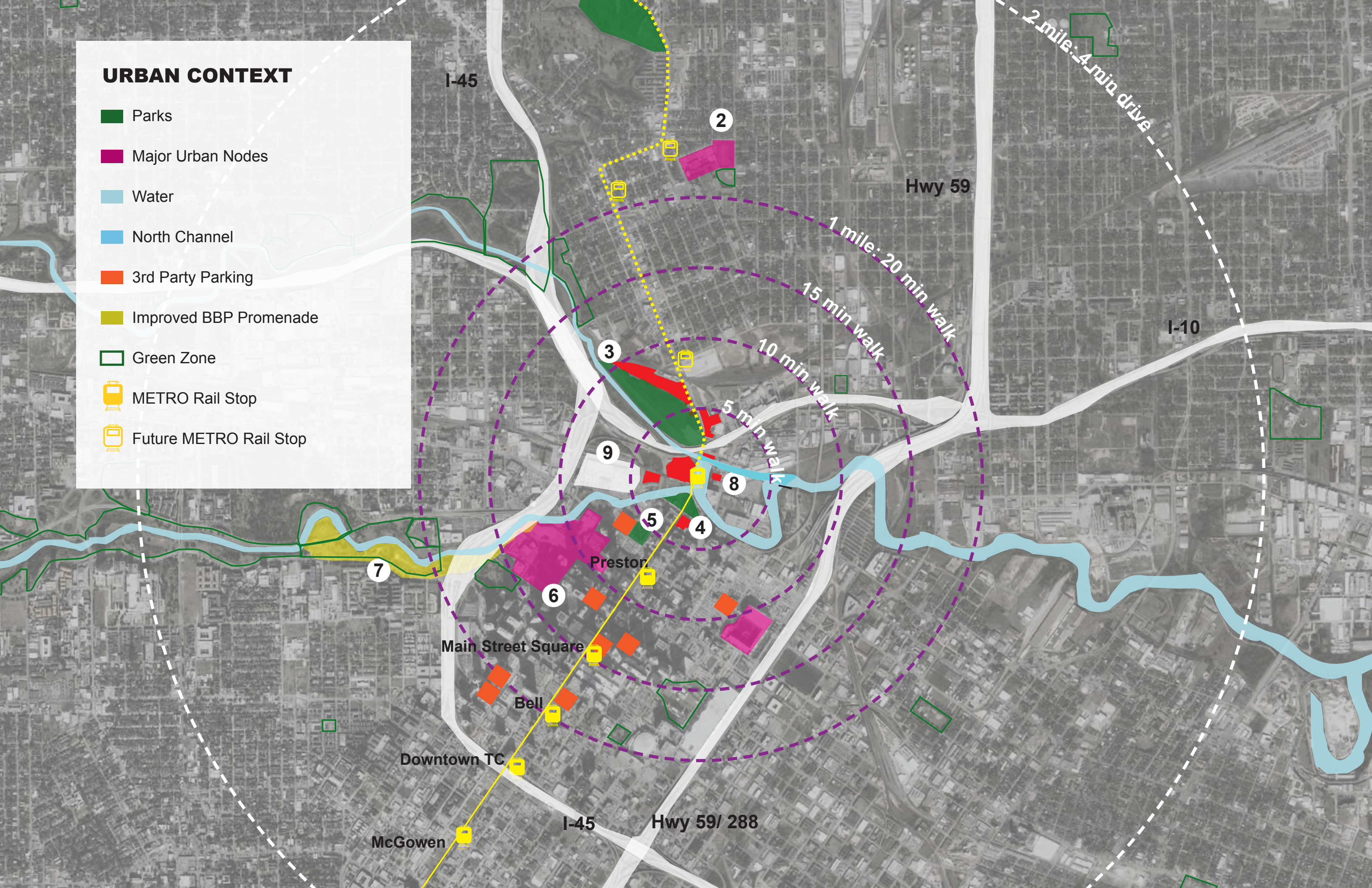
Bell

Downtown TC

I-45

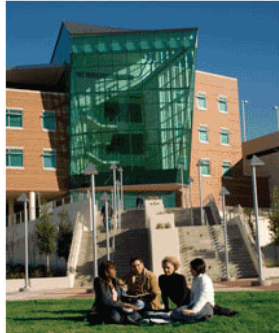
Hwy 59/ 288

McGowen





# UHD CAMPUS



## Shea Street Bldg.

- 3.409 Acres
- Some Offices
- College of Business
- Parking Garage
- Adjacent land owned by METRO & others

4



1

## Daly St Parking Lot



3

## Naylor Street Lot



2

## Warehouse

- to be renovated if METRO doesn't buy it



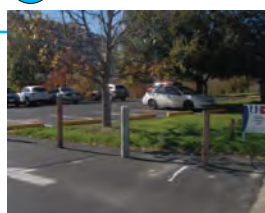
6

## One Main Bldg.

- 5.612 Acres
- Administrative Offices
- College of Humanities and Social Sciences
- College of Science & Technology
- University College
- Student Life Center



5



9

## Washington St Lot

1.469 Acres



10

## Commerce St Bldg.

- 1.300 Acres
- College of Public Service



## McBride Property

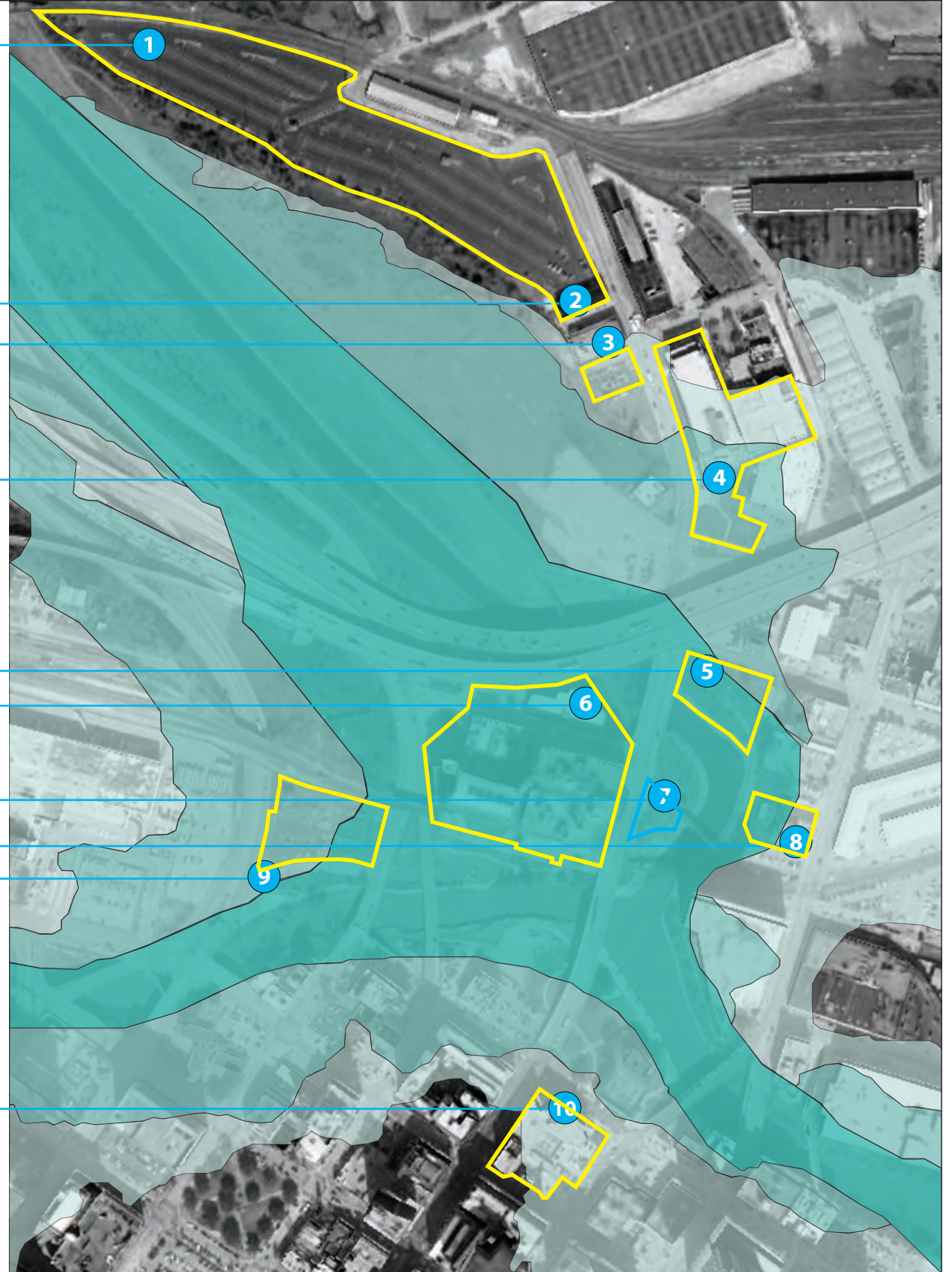
- 0.263 Acres
- Adjacent land owned by the City of Houston and HCFCF

7

8

## Willow Street Pump Station

- 0.525 Acres
- conference & meeting space but not enough parking/ not used as



1. BUILDINGS

2. PARKING

3. SHELL FACILITIES

4. BAYOU FRONTAGE



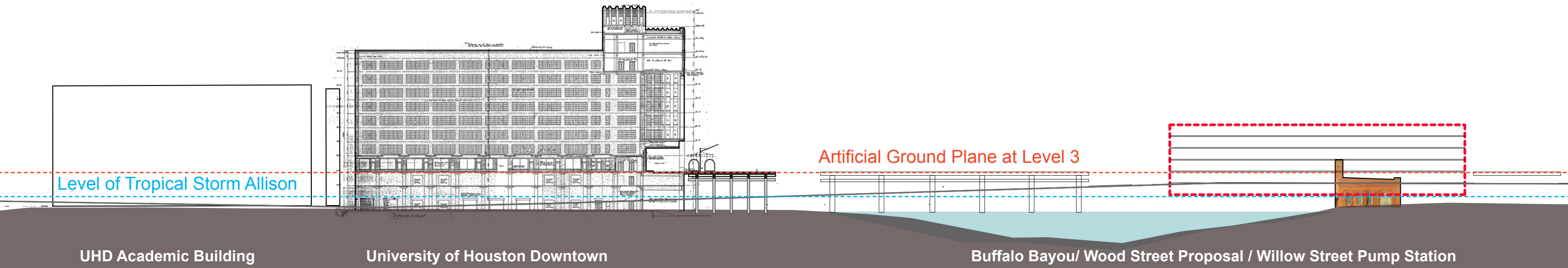
# PEDESTRIAN CIRCULATION ANALYSIS

- Pedestrian Zones
- ① Proposed Light Rail Stop
- ② Existing Light Rail Stop
- ③ End of Future Retaining Wall
- Primary Building Entry
- Light Rail
- Light Rail Expansion
- Freight Railway
- Highway I-10
- UHD Property



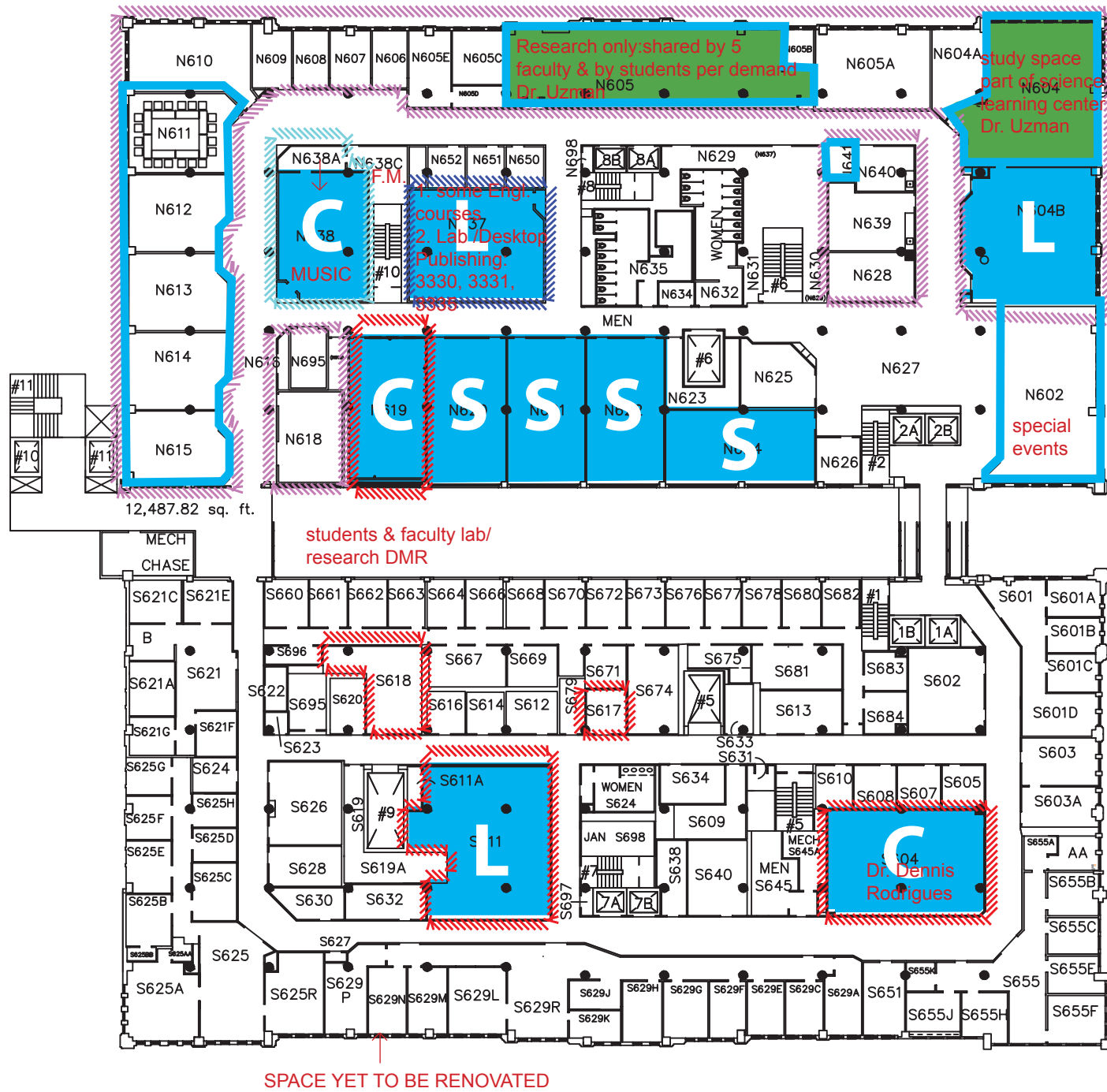


SITE SECTION • Podium Isolates Interior Space from Flood Level and Creates Artificial





# ROOM SCHEDULE AND TYPE - 650 ONE MAIN BUILDING FLOOR 6



650 OMB FLOOR 6 - UTILIZED INSTRUCTIONAL SPACE: FALL 2010



650 OMB FLOOR 6 - THECB SPACE USE DISTRIBUTION

- |   |  |  |   |
|---|--|--|---|
| <ul style="list-style-type: none"> <li><span style="background-color: #00AEEF; color: white; padding: 2px;">C</span> Classrooms with Scheduled Classes for Fall 2010</li> <li><span style="background-color: #00AEEF; color: white; padding: 2px;">S</span> Special Use with Scheduled Classes for Fall 2010</li> <li><span style="background-color: #00AEEF; color: white; padding: 2px;">L</span> Labs with Scheduled Classes for Fall 2010</li> <li><span style="background-color: #FFFFFF; border: 1px solid black; padding: 2px;"></span> Assignable Rooms w/out Scheduled Classes for Fall 2010</li> <li><span style="background-color: #008000; padding: 2px;"></span> Chair Reported Non-Classroom Use</li> </ul> | <ul style="list-style-type: none"> <li><span style="border: 1px dashed red; padding: 2px;"></span> Computer and Mathematical Sciences</li> <li><span style="border: 1px dashed blue; padding: 2px;"></span> Natural Science</li> <li><span style="border: 1px dashed purple; padding: 2px;"></span> English</li> <li><span style="border: 1px dashed cyan; padding: 2px;"></span> Arts and Humanities</li> </ul> | <ul style="list-style-type: none"> <li><span style="background-color: #FF0000; padding: 2px;"></span> Supporting, Health Care &amp; Residential</li> <li><span style="background-color: #FF8C00; padding: 2px;"></span> Non-Assignable Areas</li> <li><span style="background-color: #00AEEF; padding: 2px;"></span> Study Facilities</li> <li><span style="background-color: #008000; padding: 2px;"></span> Special Use Facilities</li> <li><span style="background-color: #90EE90; padding: 2px;"></span> General Use Facilities</li> </ul> | <ul style="list-style-type: none"> <li><span style="background-color: #FFFF00; padding: 2px;"></span> Classrooms Facilities</li> <li><span style="background-color: #FFA500; padding: 2px;"></span> Laboratory Facilities</li> <li><span style="background-color: #D3D3D3; padding: 2px;"></span> Circulation</li> <li><span style="background-color: #ADD8E6; padding: 2px;"></span> Office Facilities</li> <li><span style="background-color: #DDA0DD; padding: 2px;"></span> Unclassified Areas</li> </ul> |
|---|--|--|---|



# ROOM SCHEDULE - 650 ONE MAIN BUILDING FLOOR 6



USE RATE

FILL RATE

00:00 00:15 00:30 00:45 01:00

USE RATE= (#HRSx100) / 70 HRS FILL RATE= (#Students Enrolledx100) / MAX(Maximum Enrolment;Room Capacity)



# LOW COST / HIGH IMPACT TARGETS

SUBJ.	CRSE#	TITLE	CAMP_CODE	XLINK_MAX	XLINK_REG	MAX_ENRL	ENRL	S_AVAIL	IMOD_CODE	BEGIN	END	ROOM	WEEKDAY	RM_CAPACITY	RM_TYPE	80%	CALC_AVAIL	ACT_AVAIL	SCH_CAPACITY
MATH	4336	Neuro-Fuzzy Systems	D	0	0	10	0	10	FTF1	0000	0000	TBA		0		8.00	8		
MATH	4399	Directed Study in Mathematics	D	0	0	1	1	0	FTF5	0000	0000	TBA		0		0.80	-0.2		
MATH	6302	Math Structures for Teachers	D	0	0	40	0	40	FTF1	0000	0000	TBA		0		32.00	32		
<b>TOTAL Dept CMS</b>																			<b>868</b>
ENGR	1302	Engineering & Technology Fund	D	0	0	25	24	1	FTF6	1300	1545	N703	M	31	210	24.80	0.8		
ENGR	1302	Engineering & Technology Fund	D	0	0	25	20	5	FTF6	1730	2015	N703	M	31	210	24.80	4.8	4	
ENGR	1400	PC Applications in Engineering	D	0	0	35	31	4	FTF6	1300	1640	N703	R	31	210	28.00	-3		
EET	1411	Electric Circuits with Lab	D	0	0	36	34	2	FTF6	1300	1640	N703	T	31	210	28.80	-5.2		
ENGR	3302	Engineering Economics	D	0	0	30	28	2	FTF1	1730	2015	N703	R	31	210	24.80	-3.2		
EET	3334	Electrical Power Systems	D	0	0	25	9	16	FTF1	1730	2015	N703	W	31	210	24.80	15.8	15	
EET	3451	Instr & Transducers W/Lab	D	0	0	25	19	6	FTF6	1730	2015	N703	F	31	210	24.80	5.8	5	
ET	4390	Process Design and Operation	D	0	0	25	10	15	FTF1	1730	2110	N703	T	31	210	24.80	14.8	14	
ENGR	4401	Modern Method Engineering Anal	D	0	0	25	9	16	FTF6	1300	1645	N703	W	31	210	24.80	15.8	15	
ENGR	3308	Fluid Mechanics I	D	0	0	25	21	4	FTF1	1730	2015	N704	R	36	210	28.80	7.8	7	
ENGR	3310	3-D Fire Modeling	D	0	0	20	13	7	FTF1	2030	2120	N704	T	36	210	28.80	15.8	15	
ET	3399	Directed Study in Engr Tech	D	0	0	10	4	6	FTF5	1000	1115	N704	MW	36	210	28.80	24.8	24	
ENGR	4310	Indust Hygiene Instrumentation	D	0	0	25	9	16	FTF1	1730	2015	N704	W	36	210	28.80	19.8	19	
ET	4323	Technology Seminar	D	0	0	35	33	2	FTF1	2030	2315	N704	R	36	210	28.80	-4.2		
ENGR	4350	Industrial Loss Prevention	D	0	0	25	12	13	FTF1	1730	2015	N704	M	36	210	28.80	16.8	16	
ENGR	3320	Fire Protection Chem & Physics	D	0	0	25	20	5	FTF1	1730	2015	N705	M	20	220	20.00	0		
ENGR	3350	Construction Safety	D	0	0	25	22	3	FTF1	1730	2015	N705	W	20	220	20.00	-2		
ENGR	4330	Systems Safety Management	D	0	0	25	17	8	FTF1	1730	2015	N705	F	20	220	20.00	3	3	
ENGR	3312	Reinforced Concrete Design I	D	0	0	35	32	3	FTF1	1730	2015	N729	F	25	210	28.00	-4		
ET	3320	Concrete Technology	D	0	0	35	33	2	FTF6	1730	2015	N729	W	25	210	28.00	-5		
ET	4324	Sr. Concrete Design Project	D	0	0	35	29	6	FTF1	0830	1115	N729	S	25	210	28.00	-1		
ENGR	2410	Analysis of Engr Netwrks W/Lab	D	0	0	35	37	-2	FTF6	1730	2015	N730	W	40	210	32.00	-5		
ENGR	3311	Structural Analysis I	D	0	0	35	36	-1	FTF1	1730	2015	N730	M	40	210	32.00	-4		
ET	4390	Probs Earthquake Engineering	D	0	0	20	10	10	HYB1	2030	2145	N730	W	40	210	32.00	22	22	
ENGR	4420	Fire Dynamics	D	0	0	40	34	6	HYB6	1730	2015	N730	T	40	210	32.00	-2		
EET	3435	Automation and Control W/Lab	D	0	0	25	18	7	FTF6	1730	2115	N735	M	30	220	24.00	6	6	
ENGR	4328	Sr. Proj in Control & Instrum	D	0	0	25	7	18	FTF1	1300	1645	N735	F	30	220	24.00	17	17	
EET	2431	Digital Ckts and System W/Lab	D	0	0	25	9	16	FTF6	1300	1640	N740	R	14	220	20.00	11	11	ST-ET-OMB
ENGR	3330	Fire Alarm Signaling Systems	D	0	0	25	19	6	FTF1	1730	2015	N740	T	14	220	20.00	1	1	CapacitytoFill
																			<b>194</b>
EET	1411	Electric Circuits with Lab	D	0	0	0	0	0	FTF6	0000	0000	TBA		0		0.00	0		
ENGR	3310	3-D Fire Modeling	D	0	0	0	0	0	FTF1	0000	0000	TBA		0		0.00	0		
ENGR	3380	Occupational Safety Techniques	9	0	0	25	5	20	COM0	0000	0000	TBA		0		20.00	15		
ET	3399	Directed Study in Engr Tech	9	0	0	10	5	5	COM0	0000	0000	TBA		0		8.00	3		
ENGR	4355	Industrial Safety	Z	0	0	0	0	0	FTF1	0000	0000	TBA		0		0.00	0		
ENGR	4360	Adv Safety and Fire Problems	D	0	0	0	0	0	FTF1	0000	0000	TBA		0		0.00	0		
ET	4390	Enter Topic Title Here	D	0	0	0	0	0	FTF1	0000	0000	TBA		0		0.00	0		
<b>TOTAL Dept ET</b>																			<b>194</b>

Additional growth capacity due to higher fill (80%) in existing courses yields 12,600 sch in total  
 $80 \times \text{MAX} (\text{MAX\_ENROLLMENT}, \text{ROOM CAPACITY}) - \text{ACTUAL ENROLLMENT} = \text{SEATS AVAILABLE}$



ADDITIONAL GROWTH CAPACITY DUE TO MORE HOURS OF  
USE OF MORE ROOMS

**YIELDS 101, 848 (@ 80%) SCH IN ONE MAIN BUILDING ALONE**

COLLEGE OF SCIENCE & TECHNOLOGY REVISED GROWTH PROJECTION 2011.....13,045 SCH

ONE MAIN BUILDING FLOORS 6,7 & 8 CAPACITY.....66,678 (@ 80%) SCH

COLLEGE OF HUMANITIES & SOCIAL SCIENCES REVISED GROWTH PROJECTION 2011.....16,324 SCH

ONE MAIN BUILDING FLOORS 9,10 & 11 CAPACITY.....29,170 (@ 80%) SCH

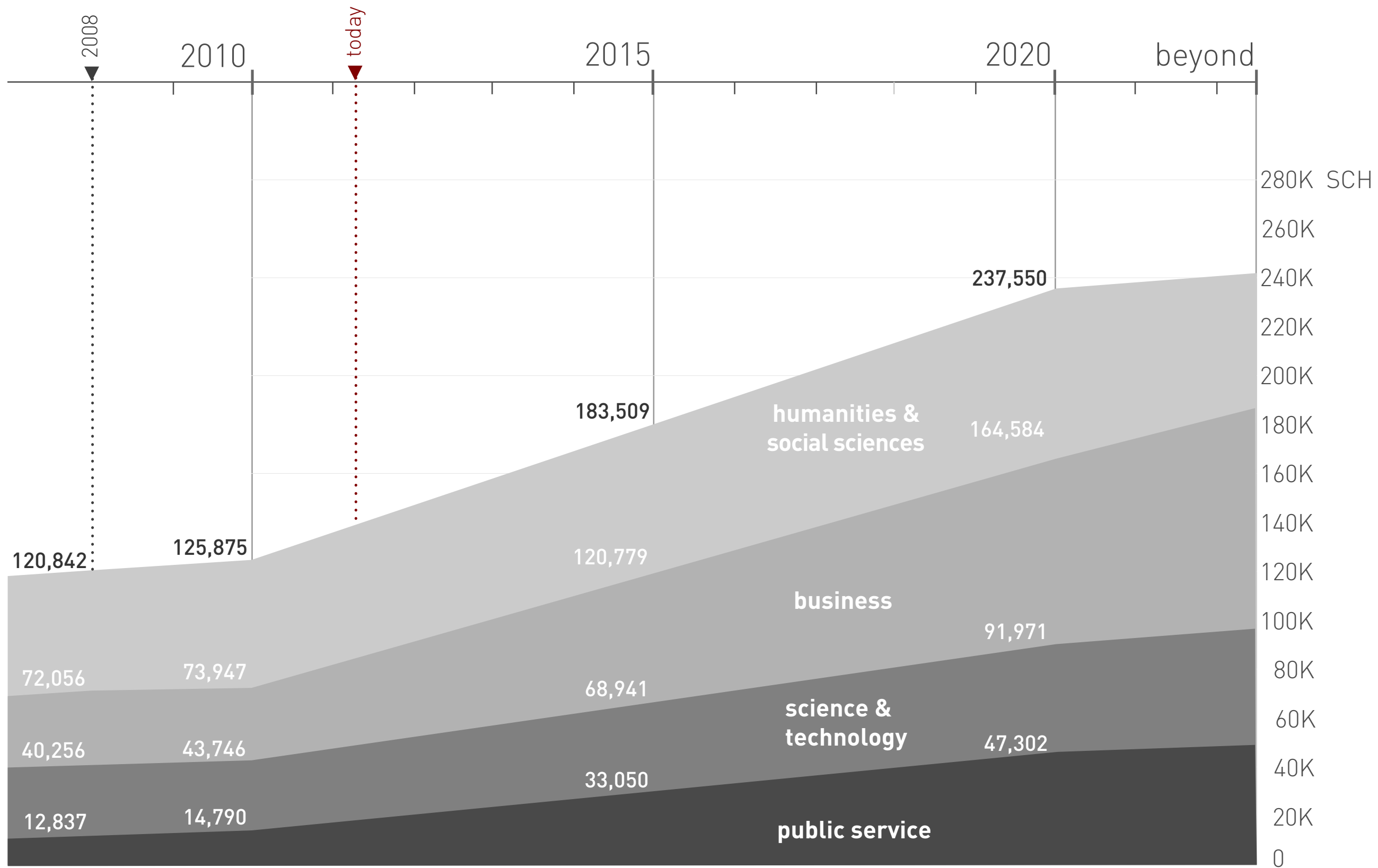
COLLEGE OF PUBLIC SAFETY REVISED GROWTH PROJECTION 2011.....11,460 SCH

COMMERCE STREET BUILDING CAPACITY.....26,152 (@ 80%) SCH

COLLEGE OF BUSINESS REVISED GROWTH PROJECTION 2011.....8,300 SCH

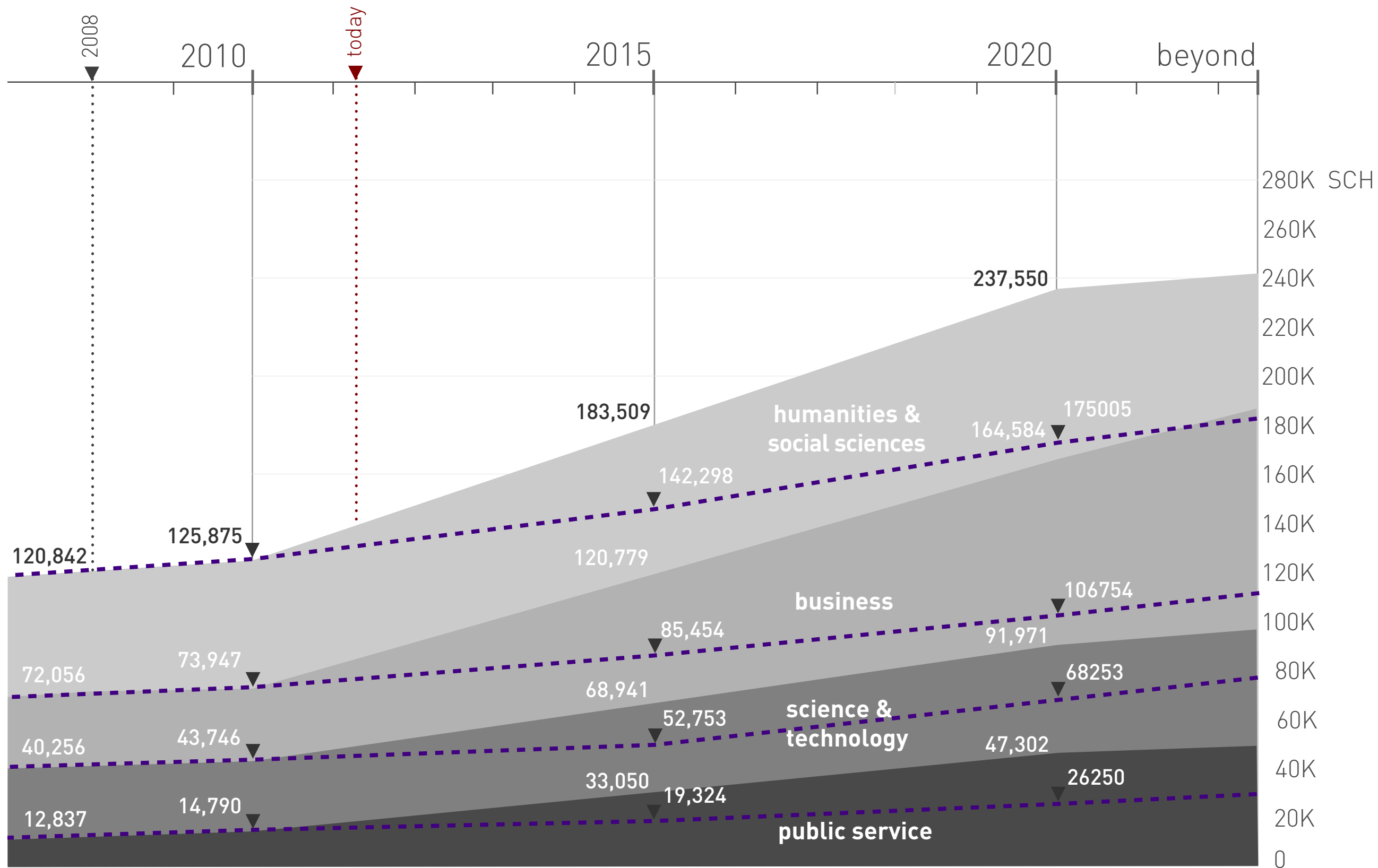
SHEA STREET BUILDING CAPACITY.....72,191 (@ 80%) SCH





UHD BoR approved growth projections 2010

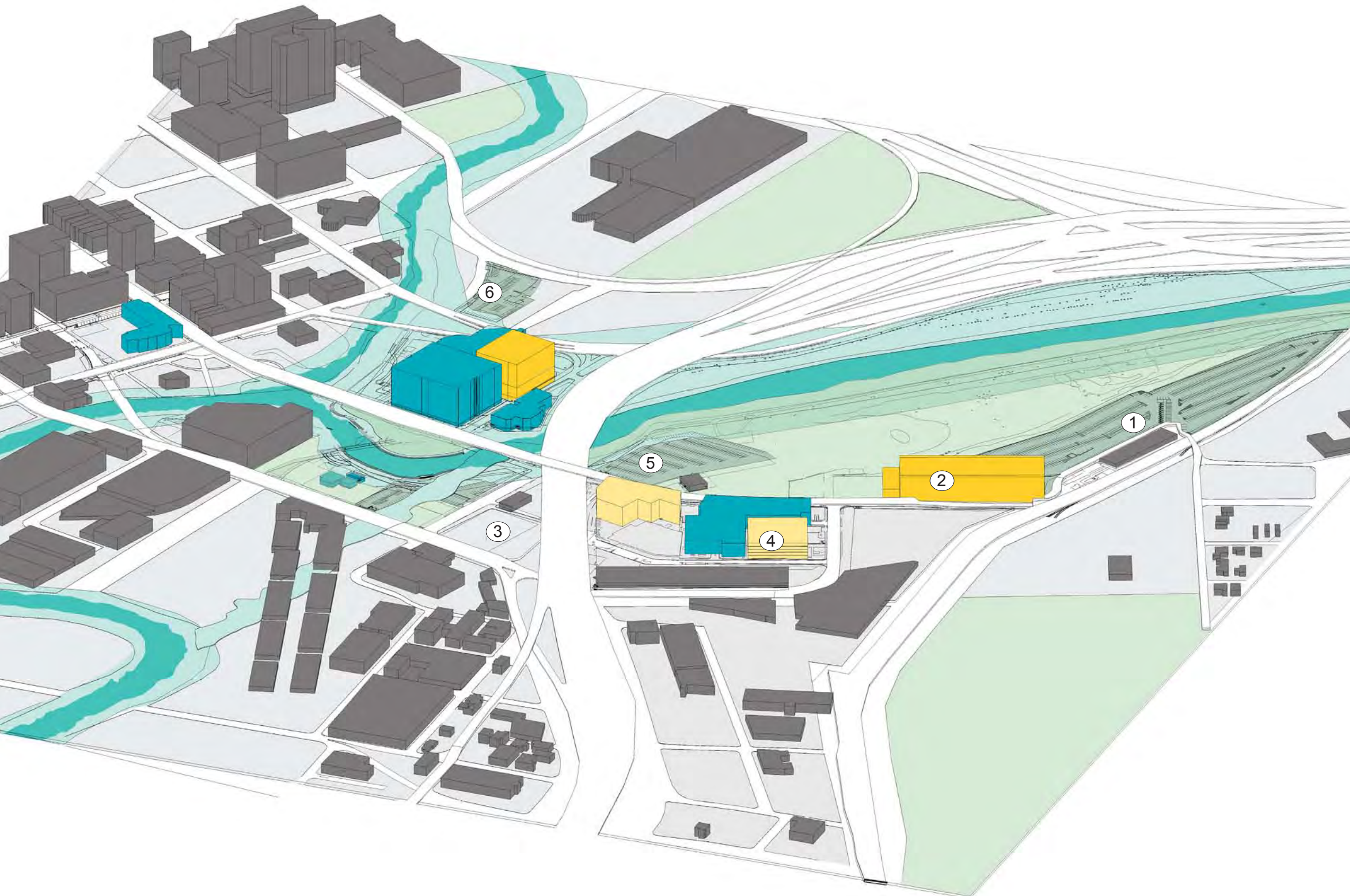




UHD revised growth projections 2011



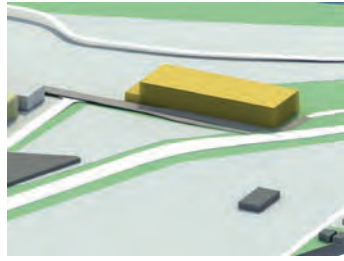
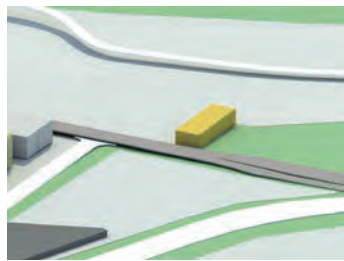

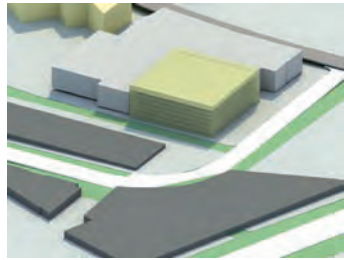

# PARKING GARAGES COMPARISON



- ① **Daly Street Garage**  
Option A
- ② **Daly Street Garage**  
Option B
- ③ **Wood Street Garage**  
at San Jacinto  
on third party-owned  
land to be acquired
- ④ **Naylor Street Garage**  
at Vine  
on third party-owned  
land to be acquired
- ⑤ **Main Street Garage**  
at Shea  
on third party-owned  
land to be acquired
- ⑥ **Washington Street  
Garage** at Travis

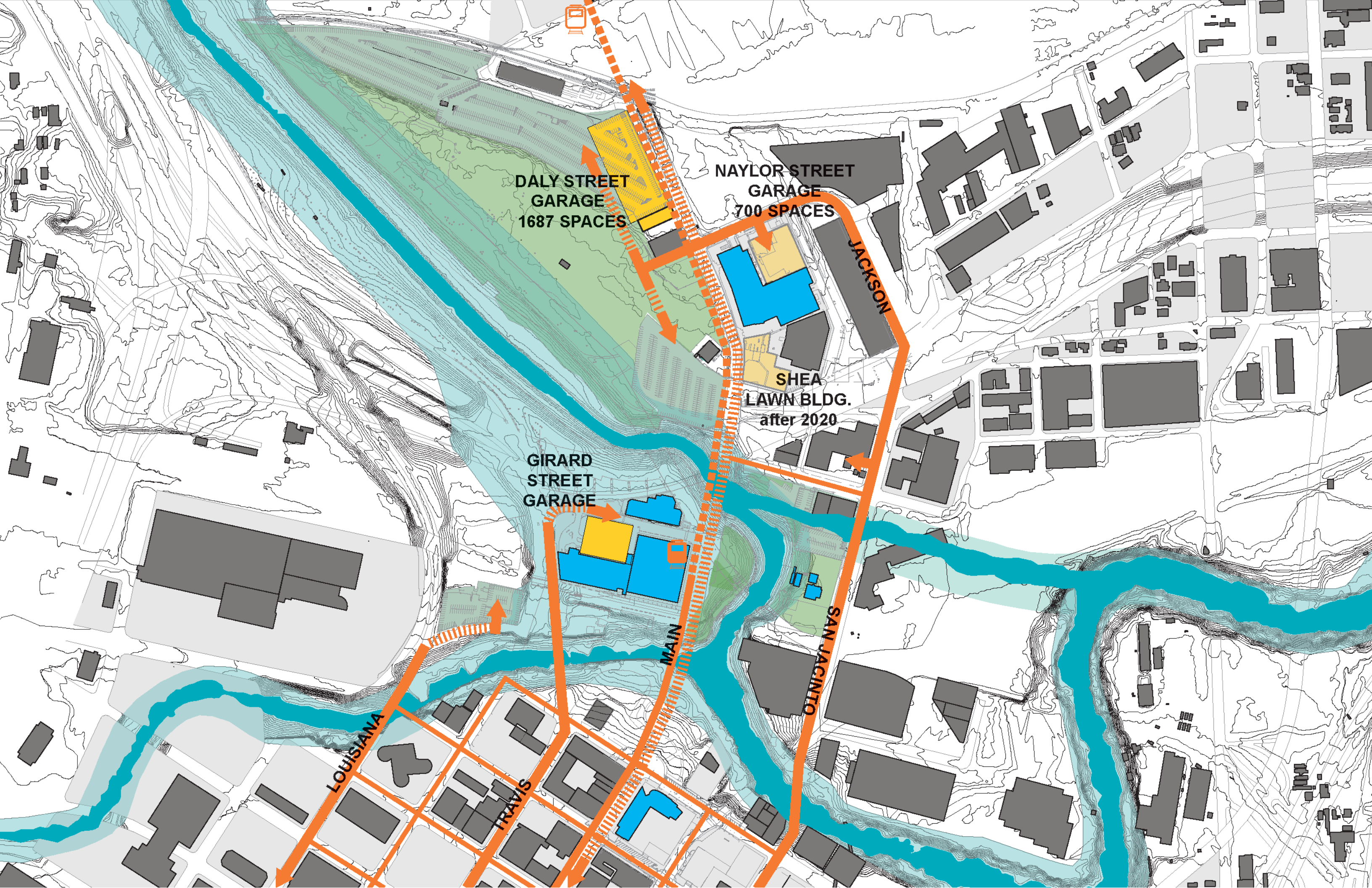


PHASING PLAN

PHASE		SF	FACILITY	FUNDING
2015	①			
DALY STREET GARAGE		485,000	7 level parking extension net gain 1429 spaces	Parking Revenue
	②			
NAYLOR STREET WAREHOUSE		16,800	Relocation of the C. J. Academy and UHD Police Departments	Campus Funds
GIRARD STREET GARAGE Phase One	③			
		120,000	Garage Replacement as podium for future building	Parking Revenue Campus Funds
IT/SCIENCE BUILDING Phase Two		120,000	on the third floor podium	Philanthropy Campus Funds
2020	④			
NAYLOR STREET GARAGE		235,000	7 level parking extension net gain 700 spaces	Parking Revenue
	⑤			
SHEA STREET ADDITION		203,000	Podium for College of Business expansion on 2 levels of parking net gain 60 spaces	State Funds Tuition Philanthropy







**DALY STREET  
GARAGE  
1687 SPACES**

**NAYLOR STREET  
GARAGE  
700 SPACES**

**SHEA  
LAWN BLDG.  
after 2020**

**GIRARD  
STREET  
GARAGE**

**LOUISIANA**

**TRAVIS**

**MAIN**

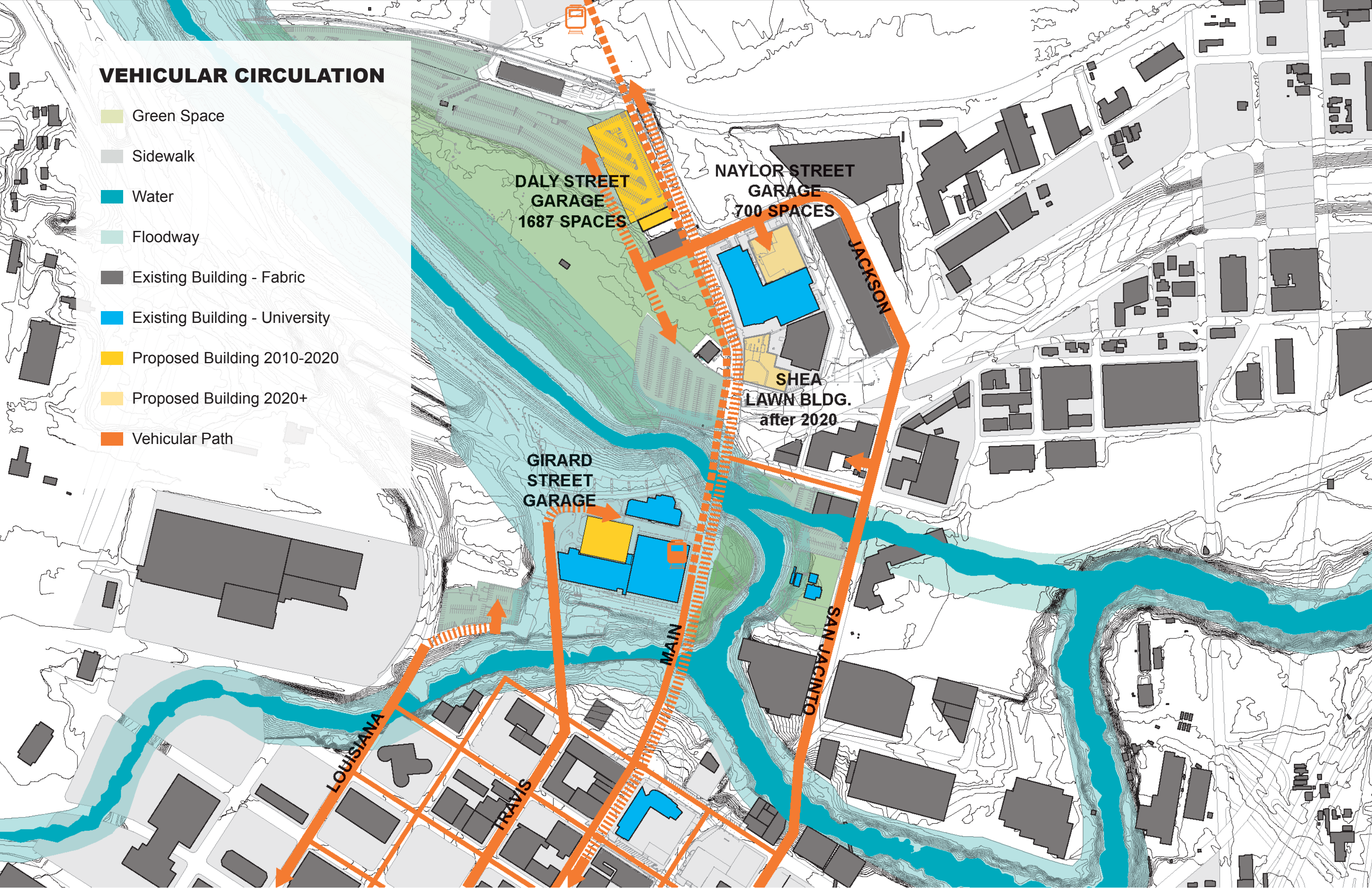
**SAN JACINTO**

**JACKSON**



# VEHICULAR CIRCULATION

- Green Space
- Sidewalk
- Water
- Floodway
- Existing Building - Fabric
- Existing Building - University
- Proposed Building 2010-2020
- Proposed Building 2020+
- Vehicular Path



DALY STREET GARAGE  
1687 SPACES

NAYLOR STREET GARAGE  
700 SPACES

SHEA LAWN BLDG.  
after 2020

GIRARD STREET GARAGE

LOUISIANA

TRAVIS

MAIN

SAN JACINTO

JACKSON

NAYLOR STREET



