

BENSON POLYTECHNIC HIGH SCHOOL I OPEN HOUSE

PORTLAND PUBLIC SCHOOLS MAY 31, 2016



TEAM INTRODUCTION | PORTLAND PUBLIC SCHOOLS

Debbie Pearson, Capital Project Director

Jen Sohm, Design Quality Manager

Rolando Aquilizan, Capital Project Coordinator





TEAM INTRODUCTION | DOWA-IBI GROUP



Dan HessPrincipal-in-Charge



Karina Ruiz Principal, Planner



Marc Nordean
Project Designer



THE TEAM

Consultants: Architectural

DOWA-IBI Group

Historic

Peter Meijer Architect

Building Envelope

Morrison Hershfield

Site Utilities

KPFF

Landscape

Percival Landscape Architecture

Structural

ABHT

Mechanical

Interface Engineering

Electrical & Fire Alarm

Reyes Engineering

Building Technology

Interface Engineering

Theater

PLA Associates

Food Service

Halliday Associates



TEAM INTRODUCTION | MASTER PLANNING COMMITTEE

PAUL ANTHONY

School Board Representative, Benson Parent

DALE BAJEMA

Alumni, Benson Boosters, Benson Site Council

MAYA BROWN

Benson Student

ILSA BRUER

Benson Teacher

KEVIN B. CLARK

Benson Alumni, Business Association, Higher Ed/Business for STEM

ANGEL DAWSON

Benson Parent

MICHELLE FUSAK

Benson Parent

BRIAN GERBER

Teacher, Benson Cluster Parent

REUBEN GILMORE

Benson Parent, Alumni

TAMMY HITE

Teacher, Alumni, Partners

ANGELA JARVIS HOLLAND

Benson Parent, Students of All Abilities

LUKE HOTCHKISS

Benson Teacher, Alumni

ERIC HUTCH

Benson Alumni

JANAE JAMISON

Benson Teacher

ROB JOHNS

Alumni, Business Association, Legacy Graduate

KRISTIN KENNEDY

Benson Teacher

DAVE KETAH, CO-CHAIR

Benson Cluster Parent, Neighborhood Association, Parent

JACOB M. MASTERS

Benson Student

IRINA PHILLIPS

Neighborhood Association, Benson Parent

JIM PIRO

Alumni, Industry

ED RAILEY

Benson Teacher

CHRISTINA RAM

Benson Alumni

LEIGH ANNE SCHERER

Benson PTSA

JAMES TOMPKINS

Benson Student

JULIE TONROY, CO-CHAIR

Business Association, Partners

MATT PELLICO

Benson Teacher

BRYAN SMITH

Benson Teacher

RICHARD (DICK) SPIES

Alumni, Partner

LISA WHITE

Benson Parent, Boosters

CURTIS WILSON JR.

Benson Principal

REBECCA ZICH

Benson Student







WHAT IS A MASTER PLAN?

Gathering Information

- Public Process
- Due Diligence Work
- Review of Historically & Culturally
 Significant Elements
- Educational Specification Development

Master Planning / Design

 Possibilities / visioning identification of key goals and themes

Development of options

- Input & Feedback from community
- Development of Preferred Option

Conclusions & Next Steps

- Board Presentation
- School Bond



MASTER PLANNING COMMITTEE OUTCOMES

- Understand Benson Polytechnic High School Needs and Wants
- Ensure all Voices are Heard
- Prepare for the Next Generation Learner
- Build Community Within and Beyond Benson Polytechnic High School
- Create a Foundation on Which to Build
- Provide Clarity and Transparency







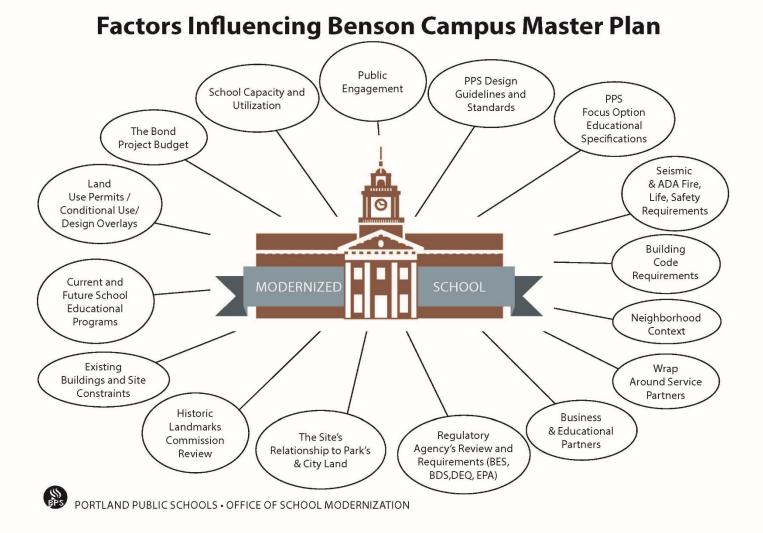


PROCESS & SCHEDULE





PPS VISION AND FRAMEWORK





DUE DILIGENCE

Architecture & Structure

- Original building contains Unreinforced Masonry & requires significant seismic upgrades to meet current code
- Universal Access is not consistent throughout
- Classrooms are too small and feel very crowded

Building Systems

- The entire mechanical system is well beyond the end of its service life and should be replaced. There are issues of indoor air quality as well as thermal comfort for building occupants
- The majority of the building's plumbing system is well beyond the end of its service life
- Electrical & low voltage systems are outdated and do not comply with current code.



NEXT GEN LEARNER PRESENTATION

THE NEW LEARNING PARADIGM

GENERATION Z: CONNECTED FROM BIRTH. Born mid-1990s to 2010.

*Generation Z data compiled by Sparks & Honey



Introducing the New Generation: "Gen Z" People born after Gen Y (from 1995 to present) who are currently under the age of 18.

HOW ARE THEY DIFFERENT FROM THEIR PREDECESSORS?

of high school students want to start a business someday (compared to 64% of college students)

Of high school students want to be an entrepreneur rather than an employee (compared to 43% of college students)



Entrepeneurship is in their DNA.

Source: Millennial Branding and Internship.com, 2014, Mintel 2014

WHO ARE THESE KIDS?

60%

of Gen Z want to have an impact on the world with their jobs (compared to 39% millennials)

of 16 to 19 year olds are currently volunteering



They intend to change the world.

HOW ARE THEY DIFFERENT FROM THEIR PREDECESSORS?

Their attention spans are getting shorter.

8 SEC

Is the average American attention span (down from 12 sec in 2000)

Of children 4-17 years old have been diagnosed with adhd (up from 7.8% in



Gen Z are the ultimate consumers of snack media. They communicate in bite sizes. Research studies suggest that their brains have evolved to process more information at faster speeds, and cognitively more nimble to handle bigger mental challenges. But, getting and keeping their attention is challenging.

Source: national center for biotechnology information, U.S. National library of medicine, the associate press



THE NEW LEARNING PARADIGM

Communication

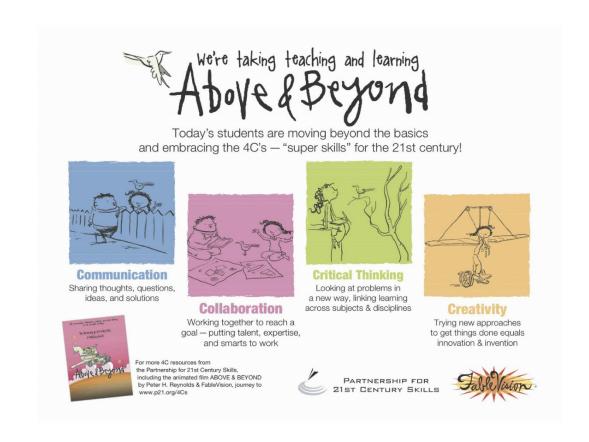
Collaboration

Critical Thinking

Creativity

Character

Cultural Competency







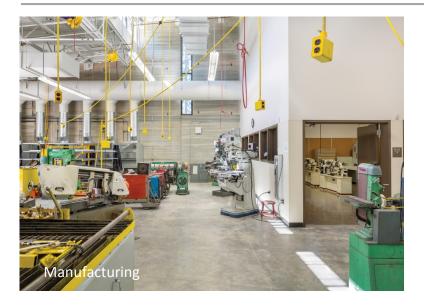




















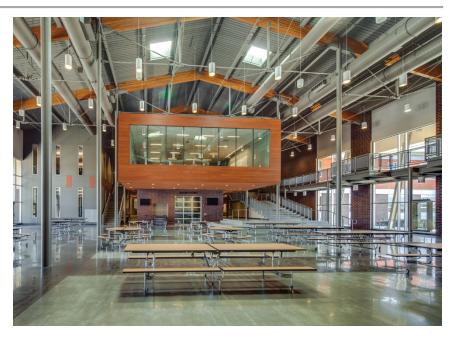




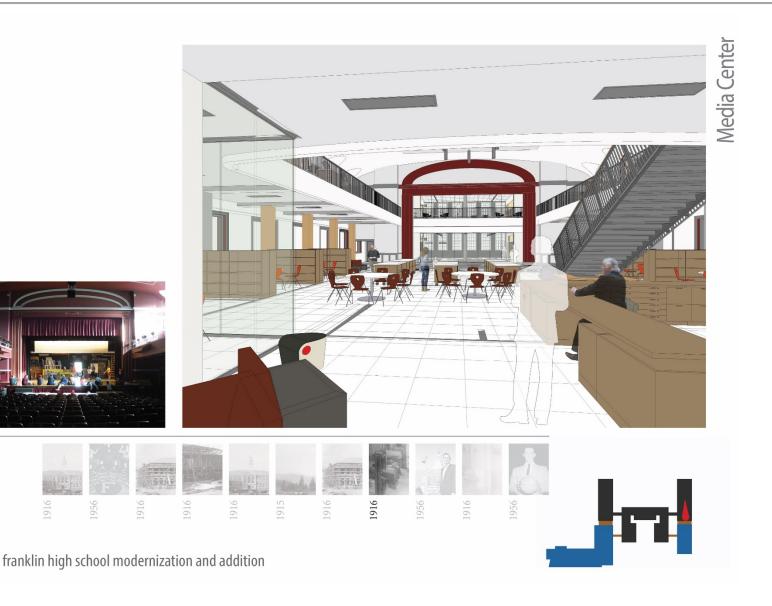














HONOR THE UNIQUE HISTORY AND CULTURE OF BENSON POLYTECHNIC HIGH SCHOOL:

Benson Polytechnic High School students, staff and community are proud of the school's rich history extending over 100 years. The modernization of this historic facility presents an opportunity to honor the past while embracing the future. The renovated facility will retain the historic character of the stately school, yet be entirely modern in its approach to delivering integrated academic and career technical education and opportunities to students.











ENGAGE WITH THE LOCAL BUSINESS, GOVERNMENT AND POSTSECONDARY PARTNERS TO CREATE A STRONG CONNECTION BETWEEN EDUCATION AND INDUSTRY:

Benson Polytechnic High School's programs should support reciprocal partnerships with industry, government, and postsecondary education, linking educational content to real-life applications and providing career relevance. Industry and postsecondary connections enhance career pathways, strengthening the connection between course content and career goals. Benson Tech's CTE spaces should be designed to mimic real-world work environments, reflect industry needs and meet applicable certification requirements.





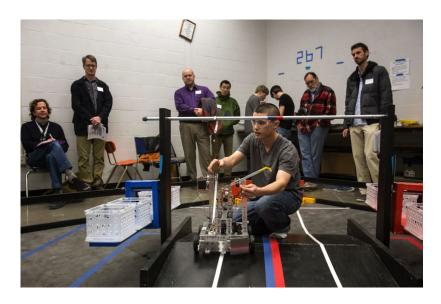




PROVIDE HANDS-ON, PROJECT-BASED LEARNING OPPORTUNITIES THAT ARE IMBUED WITH RIGOR AND RELEVANCY:

Benson Tech's modernized facility will include spaces designed to accommodate hands-on, problem-based learning activities, providing students with access to state of the art & industry-standard tools, materials, equipment, and technology to support an investigative mindset. Benson Tech should ignite a passion for "learning by doing" through experiential learning opportunities. These approaches will help students understand the relevancy of core content to their future career paths, allowing students to conceptualize the real world application of abstract academic





PROVIDE AGILE, FLEXIBLE AND ADAPTABLE FACILITIES THAT SUPPORT CHANGING EDUCATIONAL AND INDUSTRY NEEDS

Benson Tech's modernized facility must be designed as adaptable to changing needs based on economic shifts, industry advances, and new equipment needs.

Classrooms and other learning areas should serve as flexible spaces that can be easily reconfigured to support different instructional approaches. School spaces should encourage collaboration by offering a variety of group settings with flexible furnishings to invite interaction. These areas should be designed as open and inviting spaces that draw students in and serve as centers of activity and discussion.





CELEBRATE DIVERSITY AND PROVIDE A SENSE OF INCLUSION AND BELONGING AMONG STUDENTS AND FAMILIES

Benson Polytechnic High School is enriched and strengthened by the diversity of students, parents, teachers and staff. Benson Tech's school environment should reflect an appreciation of different cultures, socioeconomic backgrounds, and learning modalities. Benson Tech should promote socioeconomic equity among students by ensuring that all students have access to the resources needed to succeed in their educational and career goals.









POSITION BENSON POLYTECHNIC AS THE NATIONAL MODEL FOR STEAM AND CAREER TECHNICAL EDUCATION

Benson Polytechnic High School aspires to become a nationally-recognized institution that integrates career technical education and STEAM instruction. Students, alumni, business and the community should feel a sense of pride when speaking of their school's exemplary programs and innovative learning approaches.







PROVIDE LEARNING ENVIRONMENTS THAT INSPIRE CREATIVITY AND COLLABORATION AMONG STUDENTS

Benson Tech's modernized facility should include spaces and features that inspire exploration, collaboration and creativity, and open up a world of possibilities to students. Benson Tech's modernized facility should include multisensory environments that inspire students to explore, design, create and "tell their stories".







SUPPORT A COMPREHENSIVE EDUCATIONAL EXPERIENCE FOR STUDENTS

Benson Polytechnic High School strives to provide a comprehensive educational and cultural experience for students. Benson Tech's campus should include sufficient onsite resources to allow students to conveniently access school-based sports and/or performing & fine arts programs. Students' educational experiences are bolstered through their participation in expanded elective courses and extracurricular opportunities.



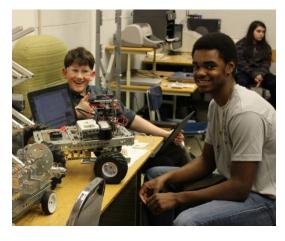


TECH SHOW















COMMUNITY WORKSHOP





COMMUNITY WORKSHOP





MPC MAPPING

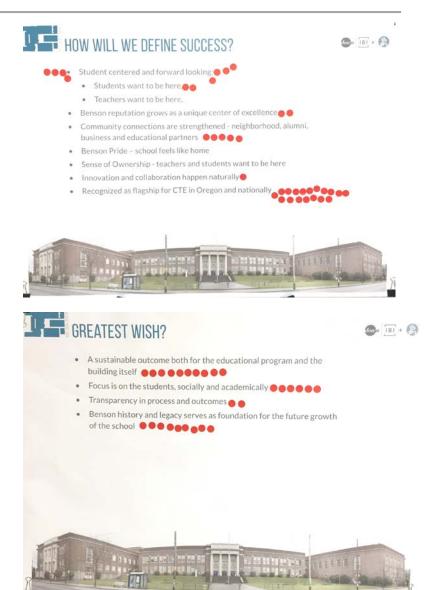




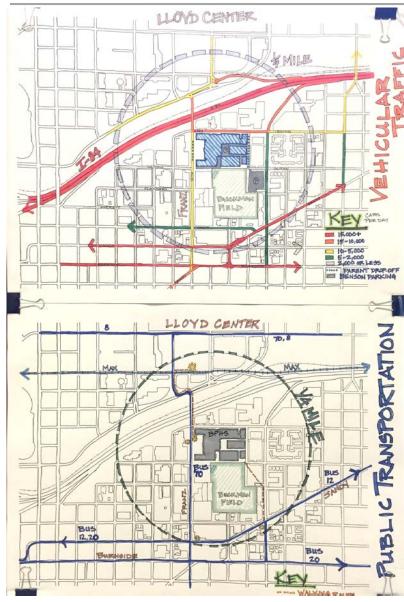
- Benson staff won't be listened to in the process
- Inadequate teaching spaces and lack of collaboration opportunities
- Not having a secure campus
- Key decisions will be made by others not participating in this process 60 600 0
- Schedule and budget will cause poor long term decision making
- · Process will erode trust and pride in Benson







STUDENT MAPPING







STUDENT MAPPING





STUDENT MAPPING



Benson: Building Issues





Inadequate storage in the school.















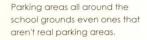


















Lighting systems all around the school.











MPC CHARRETTE

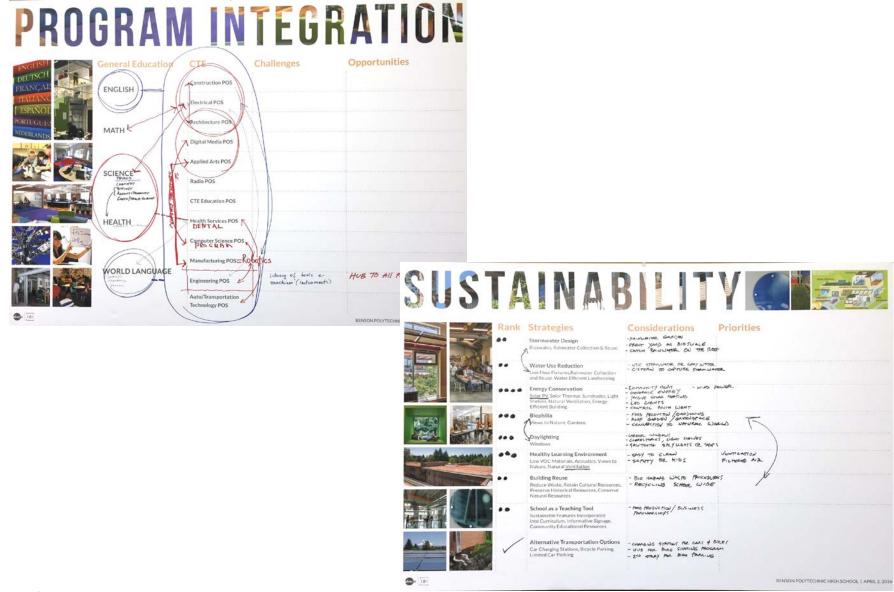


MPC CHARRETTE





COMMUNITY WORKSHOP

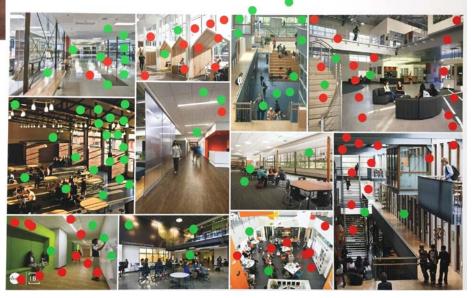


COMMUNITY WORKSHOP

CTE LEARNING SPACES























Potential Partnerships Industrial Design stop action PRECISION TOOLS (MANUFACTURING) FIRST (ORTOP ARCHITEUTS POX ART MUSEUM, OMST CREEN COLLEGE OF ARTS CRAFTS HOFFMAN CONSTRUCTION DAIMLER TRANSPORTATION TECH. FORD, ETC. (BOOKE) MAKERSPACE CADX, NATIONAL LABORATORIES, PNNL LOCAL BUSINESS NATIONAL INSTITUTES HEACH NIST (STANDARDS TECHNOLOGY) NASA LOCAL THEATRE SILTRONICS FREEGEEK HP, INTEL, TECHTROMICS UTILITY (PGE, PACIFIC, BPA) CONST RUCTION, ELECTRICAL -PRIVATE UNIONS IBEW 48 HEALTH CARE (PROVIDENCE, LEGACY) BIG PH ARMA (PHIZER, ETC.) HIGHER ED (PEED, OHSU, OIT, PSU, CAGADIA, PCC, MHCC) OSU, UO NIKE , ADIDAS

BOEING

BES

Program Opportunities	Examples to Draw From
APPRENTICE SHIPS INGERNSHIPS, Potential Concord on Design	
INTERNISH IPS, Design Consolt	Laika teaching @ Sat. Academy
INTERNEH IPS, DISIGN CONSULT. AFTERSCHEOL / COMPETITION/SCHOLARSH HOUSE DESIGN T.A. SHOP WORK /MERNS	IIPS EXISTING
# PARTNEPS, APPRENTICESH (P ACATE MIC TECHNOLOGY SHAPING SHARED POWER, STEAM, ENERGY/EDWATION CAPITAL # 11	SOME EXISTING
STAGECRAFT TECHNOLOGY, DESIGN CONSULT., DONOR, TRAININ	SEXIST, PARTNETES
SOLAR, ELEC. VEHICLES INSTRUCTIONAL & CAPITAL #	
CROSS LEARNING.	
COLLEGE TOURS	DART (FLORIDA DESIGN HIGH SCHOOL) CUS - DETROIT. SEI PROGRAM PENGOLE
SUCH AS GREEN POOF TECHNOLOGIES	BENSON POLYTECHNIC HIGH SCHOOL APRIL 2, 2016



Banfield 1-84 DC 45 New Library Addition (1991) Auditorium (1930) North Shop Wing (1917) Main Building (1916) Library Science Addition NE 16th Ave Health Clinic **Aeronautics Automotive** (1953)(1953)**KPBS** New Gym South Shop Wing (1918) (1992) Old Gym (1925) (1964) NE Glisan St NE Glisan St **FCC Radio Tower** NE Flanders St field BENSON POLYTECHNIC HIGH SCHOOL IBI

SCALE: 1"=40'-0"

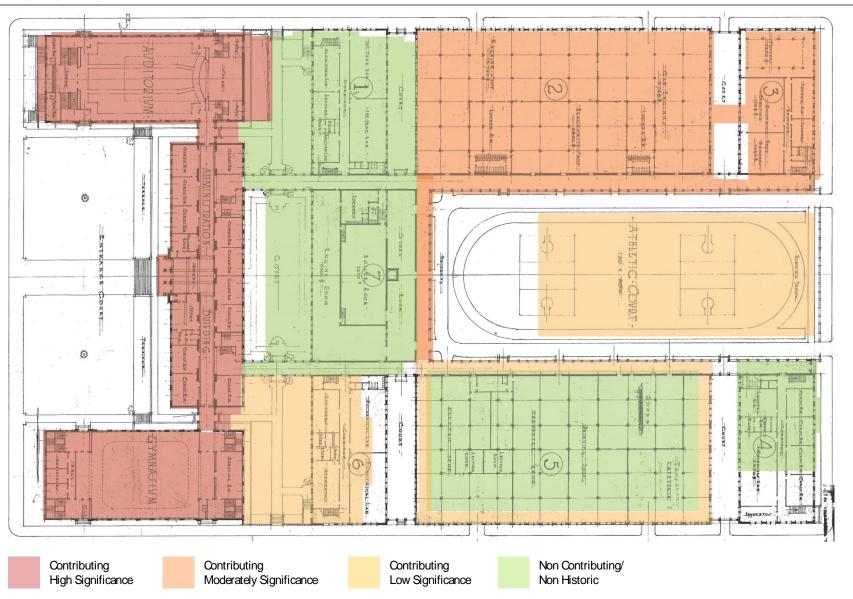
EXISTING BUILDINGS TO REMAIN



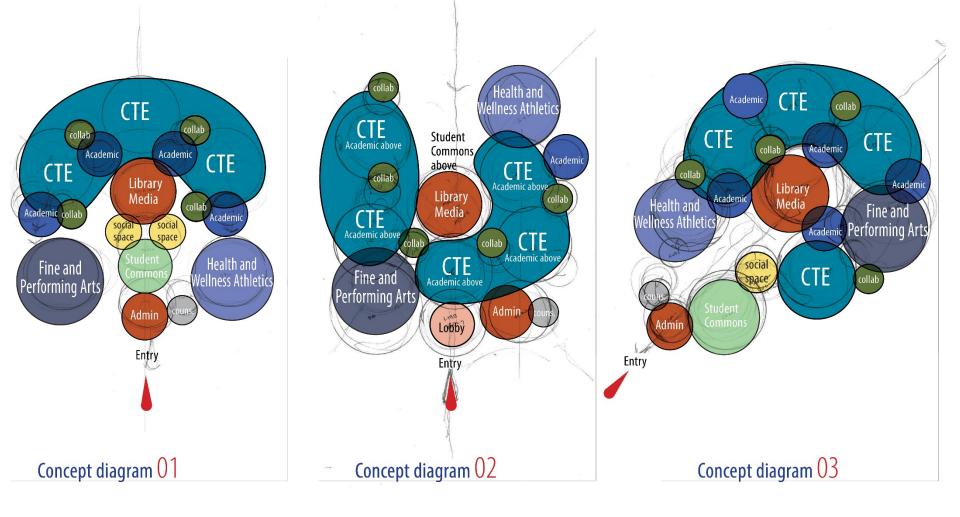




HISTORICAL LANDMARK







Community Workshop — Committee Impressions

- Integrated academic with CTE, disbursed collaboration spaces
- Pod clusters that contain academic, CTE, collaboration areas, social spaces
- Concern about pod approach causing long travel distance between academic classes
- Use of green spaces as a compliment to academic/school environment

- Common idea of Health Occ adjacent to PE/Wellness; also would be nice to have Health Occ near other CTE programs
- Display windows on Irving Street great idea, showcases the programs (11k-12k cars per day)
- Defined front door / back door concept is a good idea
- Grouping of public spaces at front of the building is a good concept (public spaces up front, private spaces in back)







TOUR HIGHLIGHTS

- Franklin HS
- Roosevelt HS





- HeLa High
- Washington HS







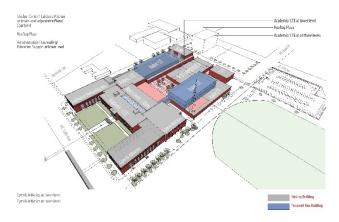
PROPOSED MASTER PLAN CONCEPTS



MASTER PLAN PREFERENCES

Which Master Plan Concept represents the best vision for the future of Benson Polytechnic HS?

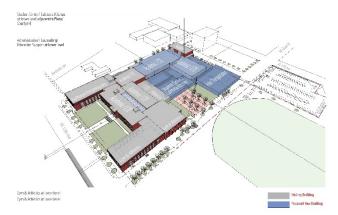
MP Concept A



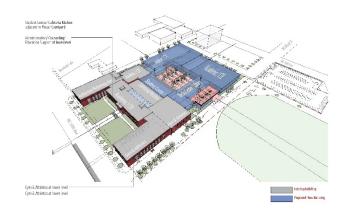
MP Concept C



MP Concept B



MP Concept D





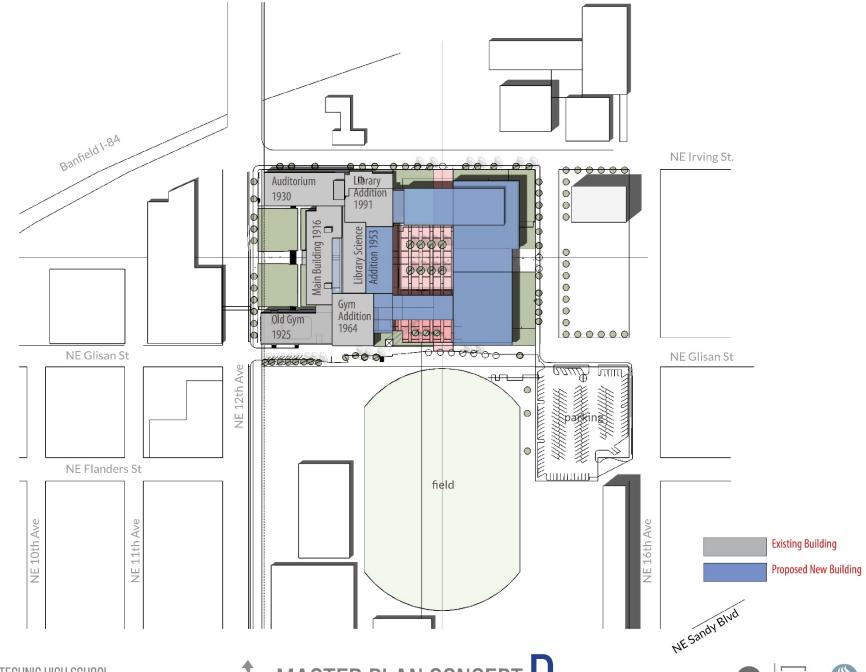








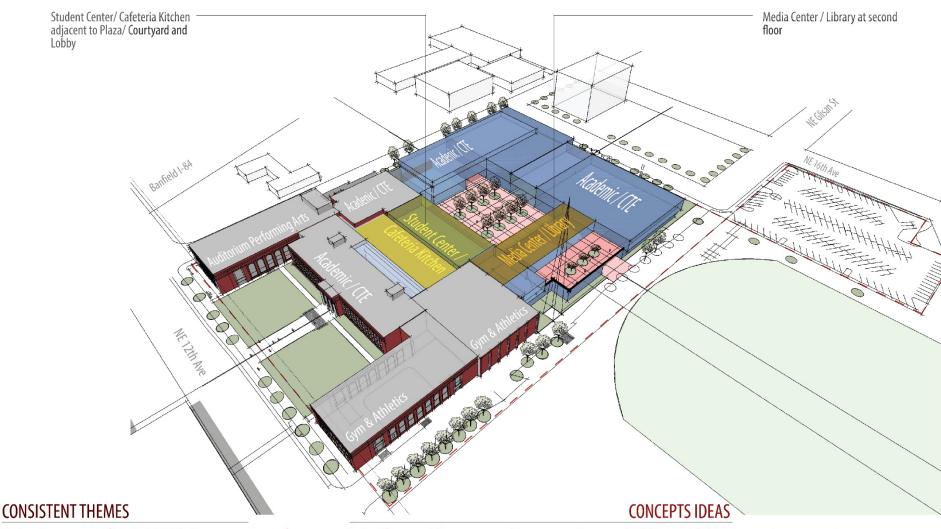












Maintain presence of iconic NE 12th Avenue portions of the building (Theater, Main Classroom Wing, Old Gym)

Plaza as a gathering space for entire campus

Provide connections between academic and CTE learning

 3 significant public spaces combine to create the heart of the school: Student Center, Library, Plaza

• Makes connections to surrounding urban context

• Connects building and field to create a unified campus

 Provides greater flexibility for reimagining CTE spaces









