



# Project Purpose:



**To improve the educational environment and safety of Great Falls High School!**

# Issues



- Address infrastructure needs in the areas of heating and ventilation (HVAC), electricity, plumbing & Increase natural lighting through a window replacement project.
- Address safety issues to include student/staff/public travel between the Main and South Campus
- Upgrade all learning spaces including Career and Technical Education (CTE) facilities
- Address parking, traffic flow and access concerns



# Infrastructure Needs

# Infrastructure

## Issues

## Solutions

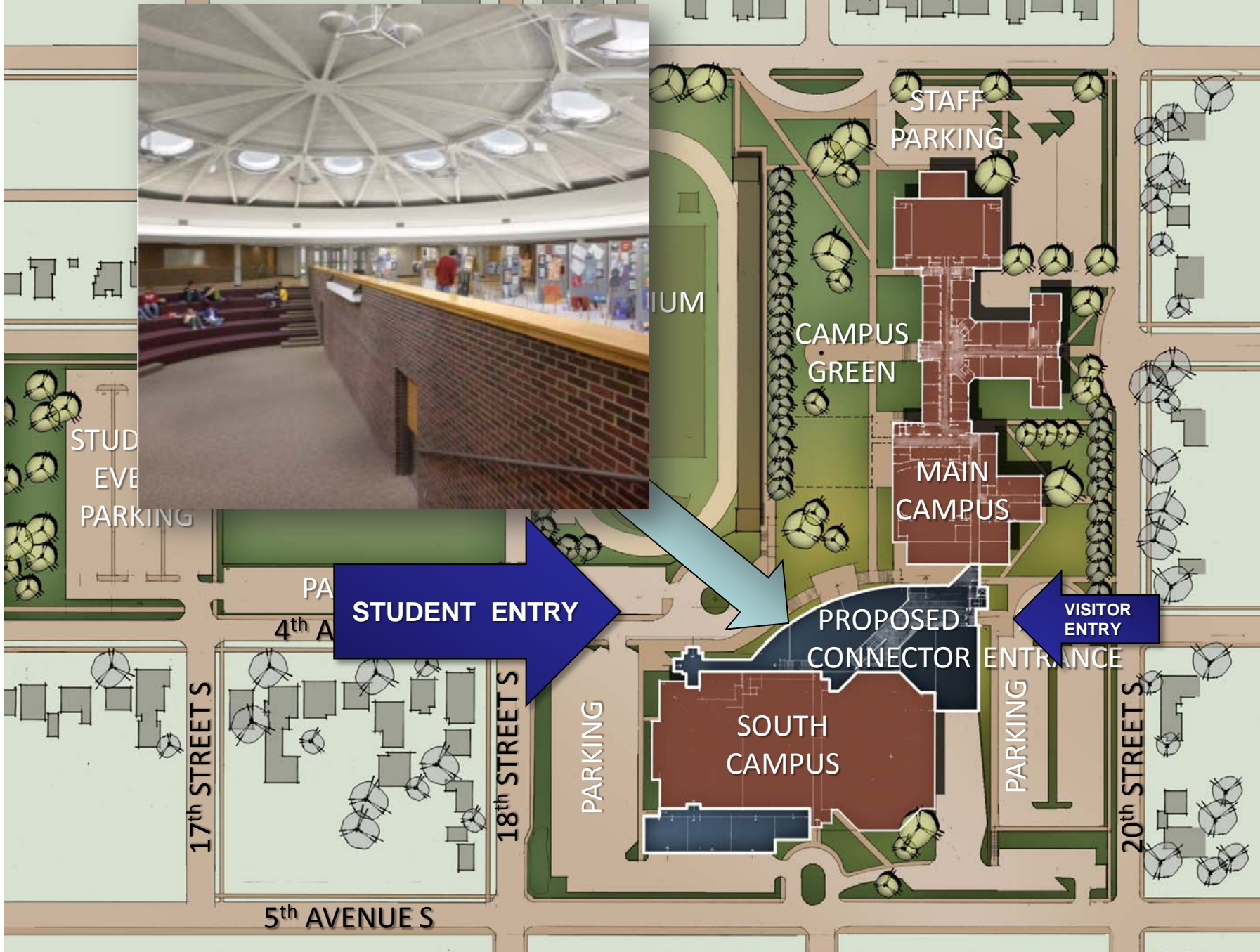
## Costs

<p>1) Heat, ventilation controls (Great Falls High School and South Campus)</p>	<ul style="list-style-type: none"><li>• New high efficiency modular boilers</li><li>• New digital controls</li><li>• Utilize existing ventilation shafts for duct work for air distribution</li><li>• Electrical upgrades to support new mechanical systems and controls</li></ul>	<p>\$5,000,000 Was (\$7,000,000)</p>
<p>2) Inadequate electrical power throughout GFHS</p> <p>3) Inadequate and inefficient lighting throughout GFHS. Do not replace existing historical lighting in main corridors (s); supplement with new</p>	<ul style="list-style-type: none"><li>• New electrical power distribution</li><li>• New electrical outlets everywhere</li><li>• New energy efficient lighting</li></ul>	<p>\$3,500,000 Was (\$4,416,000)</p>
<p>4) Inadequate / outdated plumbing and toilets</p>	<ul style="list-style-type: none"><li>• New Plumbing -<ul style="list-style-type: none"><li>- water supply</li><li>- gas supply</li><li>- waste lines</li><li>- add water in appropriate areas not currently served</li></ul></li></ul>	<p>\$552,000</p>
<p>5) Original windows replaced then covered up; (little natural light)</p>	<ul style="list-style-type: none"><li>• Replace windows with energy efficient units historically acceptable to SHPO</li></ul>	<p>\$1,000,000 Was (\$2,415,000)</p> <hr/> <p><b>Total= \$10,052,000</b> Was (\$14,383,000)</p>



**Safety for students**





**STUDENT ENTRY**

**VISITOR ENTRY**

**PROPOSED CONNECTOR ENTRANCE**

**SOUTH CAMPUS**

**STAFF PARKING**

**CAMPUS GREEN**

**MAIN CAMPUS**

**STUDY CENTER PARKING**

**PARKING**

**PARKING**

**17th STREET S**

**18th STREET S**

**20th STREET S**

**5th AVENUE S**

**PA**  
**4th A**

**PLAZA**

# Safety

## Issues

## Solutions

## Costs

1) **Unsafe and Unsecured** conditions between campus buildings

2) No controllable main entrance / exit from GFHS / campus

3) No place for students to congregate (social, studying, interact with faculty)

- **A connector:** Enclosed from GFHS to fieldhouse and south campus
- Student commons
- Main offices include counseling (frees up 5 classrooms in GFHS)
  
- Redirect main entrance into the “connector” building and from the west
- Create single location for first responders
- Create multiple drop-off areas to reduce congestion around campus

\$7,000,000  
(Was \$8,900,000)

4) Traffic, parking and drop-off emphasis is to the main residential area to the east (20<sup>th</sup> St)

5) 1<sup>st</sup> responder (Fire/EMS/Police) access is poor and unorganized (conflicts with traffic on east drop-off (20<sup>th</sup> St))

7) Large number of slips and falls between campuses in winter





21<sup>st</sup> Century Learning Environment In 1930'S Era Building

# 21<sup>st</sup> Classrooms for learning

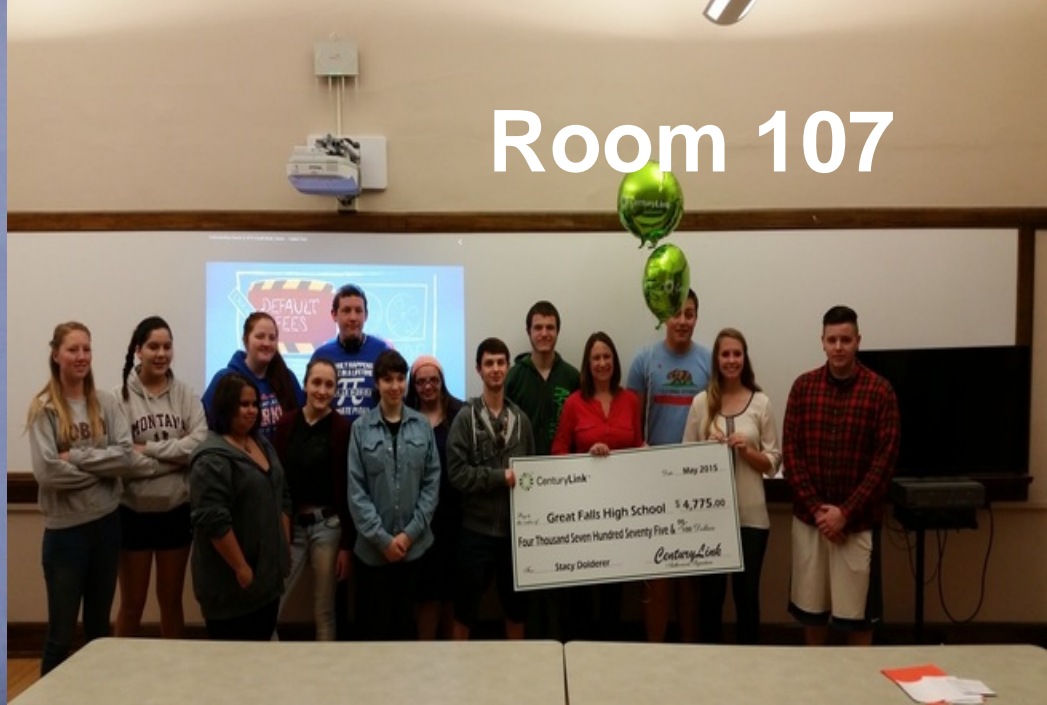


**VS**



**VS**





Room 107



Technology up grades!



# CTE Programs





CONNECTOR

The image is a site plan of a campus. A large brown rectangular area is labeled 'SOUTH CAMPUS'. A dark blue area, shaped like a bridge or connector, is labeled 'CONNECTOR' and links the South Campus to another building area at the top of the plan. A smaller dark blue rectangular area at the bottom left of the South Campus is labeled 'NEW SHOPS?'. A vertical blue bar on the right side of the South Campus is also labeled 'NEW SHOPS?'. The plan shows various streets, including '5th AVENUE S' at the bottom and '20th STREET S' on the right. There are also green spaces with trees and other building footprints.

SOUTH CAMPUS

NEW SHOPS?

NEW SHOPS?

5<sup>th</sup> AVENUE S

20<sup>th</sup> STREET S

# Learning Environments

## Issues

## Solutions

## Costs

1) **Classrooms and learning space does not support 21<sup>st</sup> Century Teaching / Learning techniques**

– **Update Public Spaces**

– **Classrooms size**

– **Outdated science labs**

– **Technology access upgrade**

2) **CTE Building relocation and construction**

- Remodel classrooms -
  - refinish wood floors
  - new white boards
  - new finishes
  - new integrated storage
  - new furnishings
- Remodel and update some common areas
- Reconfigure some areas to create flexible learning space
- Remodel / update all science labs
- Incorporate new technology in all areas of building
- Relocate IT facilities on south campus

**\$10,080,000**

(Original estimate was \$22,080,000)

**\$3,520,000**

(was \$5,520,000)

**\$5,200,000**

(original estimate was \$6,000,000)

**Total= 18,800,000**

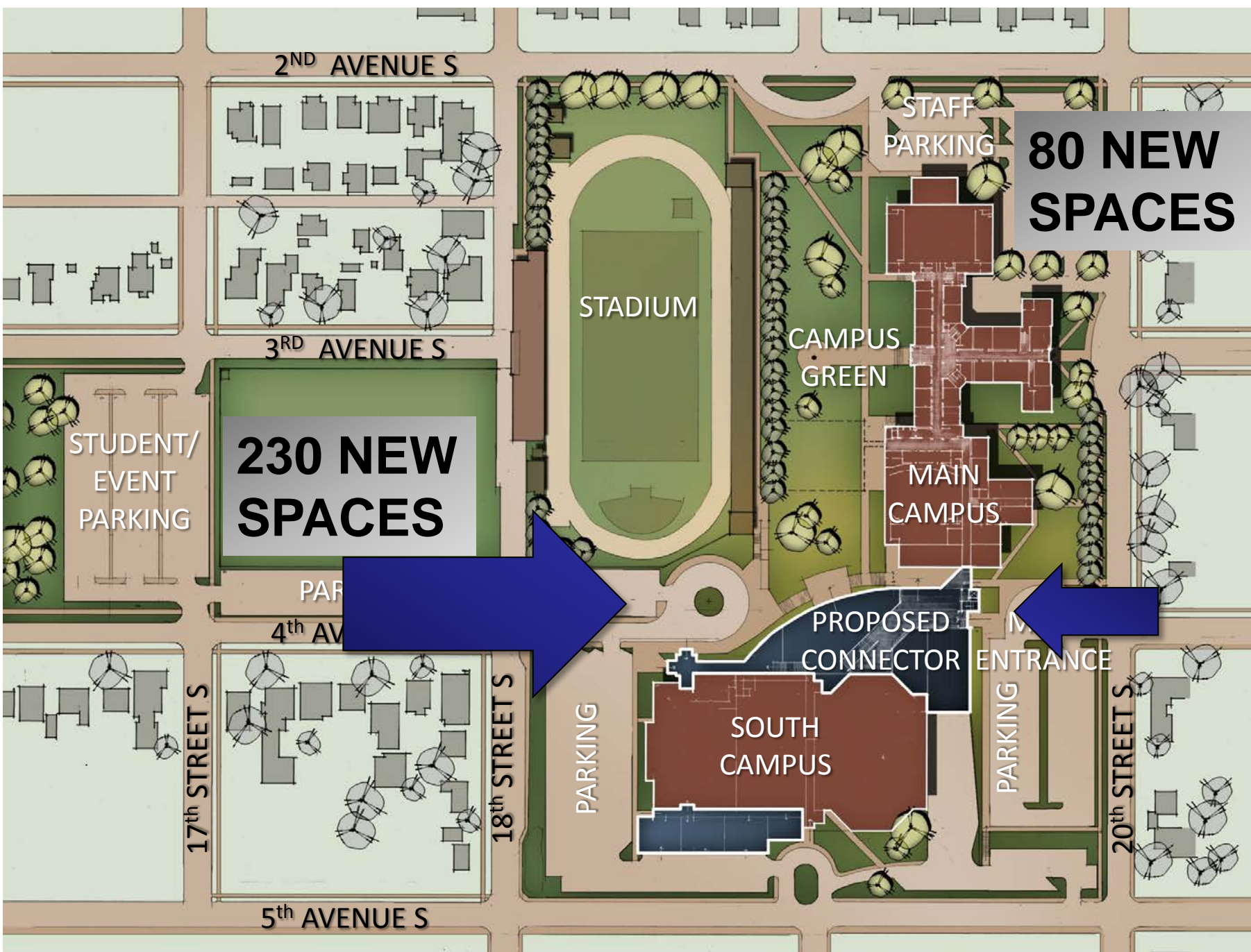
(was \$33,600,000)

# Parking , Access and Traffic flow Issues









# Parking, Traffic and Access

## Issues

## Solutions

## Costs

- 1) Parking is inadequate (numbers) and poorly located (to the east on 20<sup>th</sup> St) forcing parking onto adjacent city streets
- 2) Traffic pattern around campus is broken up and difficult to navigate with closed streets creating congestion and confusion
- 3) Student access is scattered throughout the campus. No real main entrance.

- Add 230+/- parking spaces to the west for students and events
- Add 80 +/- parking spaces on the NE corner of the campus (20<sup>th</sup> St & 2<sup>nd</sup> Ave S. for faculty and staff
- Implement a parking plan with a management plan -
  - incentives
  - enforcement
- Continue to work with City and City's consultants to further define the desired traffic patterns
  
- Re-direct student access to the West side of campus on 4<sup>th</sup> street

\$975,000

# Cost to revitalized Great Falls High School to last our community another 80 years:

Issue to address	Original estimates		Revised proposed costs
Parking	975,000		975,000
CTE	6,000,000		5,200,000
HVAC	7,000,000		5,000,000
Electrical	4,416,000		3,500,000
Plumbing	552,000		552,000
Connector	8,900,000		7,000,000
Class room	22,080,000		10,080,000
Windows	2,415,000		1,000,000
Tech	5,520,000		3,520,000
Tempclass			\$250,000- \$500,000
	57,858,000		<b>\$37,327,000</b>

