



# Main Library Design & Development Update

## October 2, 2018

**August 29, 2018**

**HKT Architects Inc.**

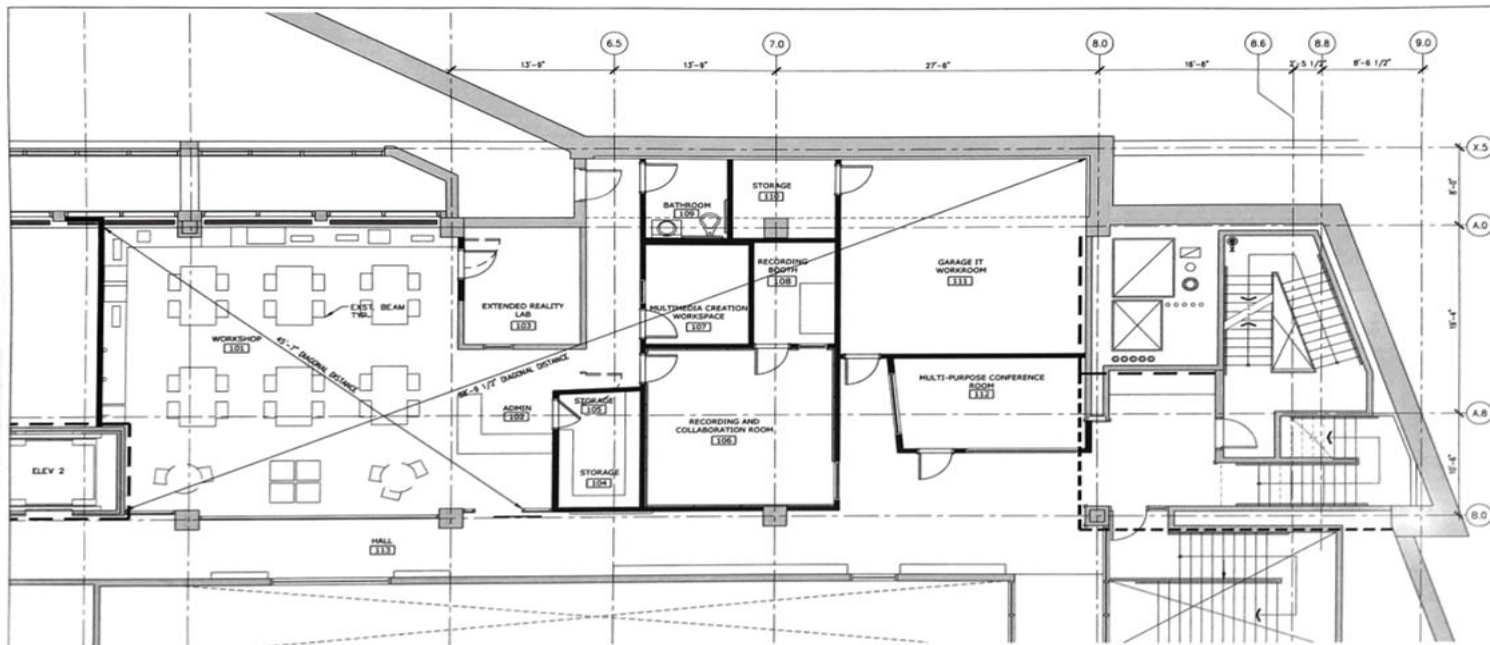
**TASK:**

[illegible]

■ Duration Period

**Holiday**

	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019
Learning Lab	Contract Docs	Bid	Bid	Construction	Construction	Open!						
Staff Spaces	Contract Docs	Bid	Bid	Construction	Construction	Open!						
Tech Bar	Contract Docs	Contract Docs	Contract Docs	Bid	Bid	Construction	Construction	Construction	Construction	Construction	Open to staff	Open to public
The Garage	Contract Docs	Contract Docs	Contract Docs	Bid	Bid	Constuction	Construction	Construction	Construction	Construction	Open to staff	Open to public



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Author: [ ] Designer: [ ] Date: [ ]

Registrations

Consultants

Cambridge Public Library  
STEAM Lab  
499 Broadway, Cambridge,  
MA 02141

Garage Code Plan

Revised By: [ ]  
Date: [ ]  
By: [ ]  
Date: [ ]  
By: [ ]  
Date: [ ]

C-1

#### APPLICABLE CODES

- 780 CMR (MASSACHUSETTS STATE BUILDING CODE, EIGHTH EDITION)
- 527 CMR (REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD)
- 28 CMR PART 36: AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES

#### CONSTRUCTION TYPES

EXISTING BUILDING TYPE 3A  
NEW ADDITION TYPE 3A  
GARAGE TYPE 2C

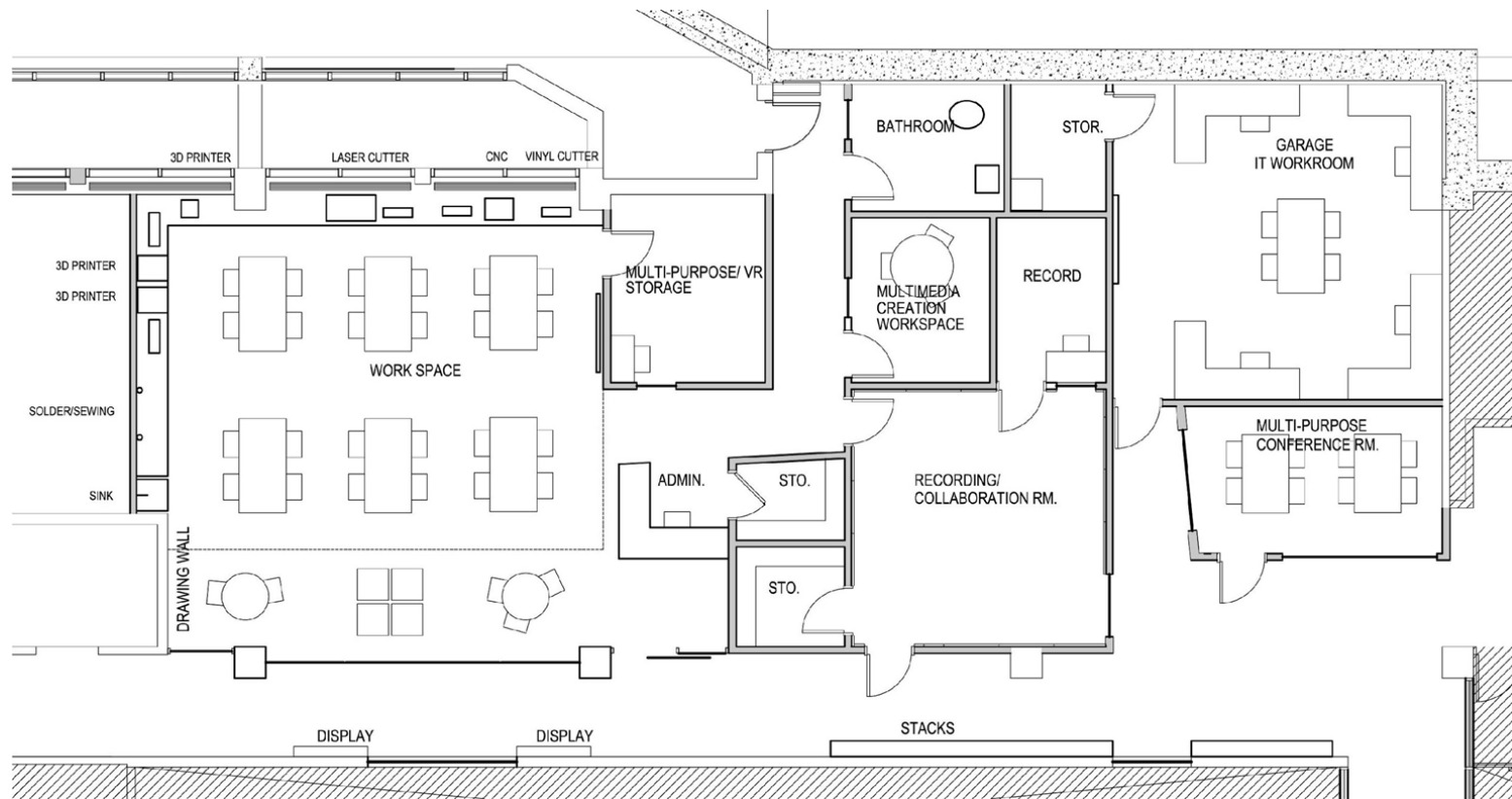
#### OCCUPANCY

THE EXISTING BUILDING IS A NON-SEPARATED MIXED-USE WITH USE GROUPS A-3 (ASSEMBLY, B (BUSINESS)) AND S-1 (MODERATE HAZARD STORAGE). THE ADDITION WILL ALSO HAVE THESE THREE USE GROUPS. THE UNDERGROUND PARKING GARAGE IS USE GROUP S-2 AND IS TO BE SEPARATED FROM THE LIBRARY WITH A FIREWALL.

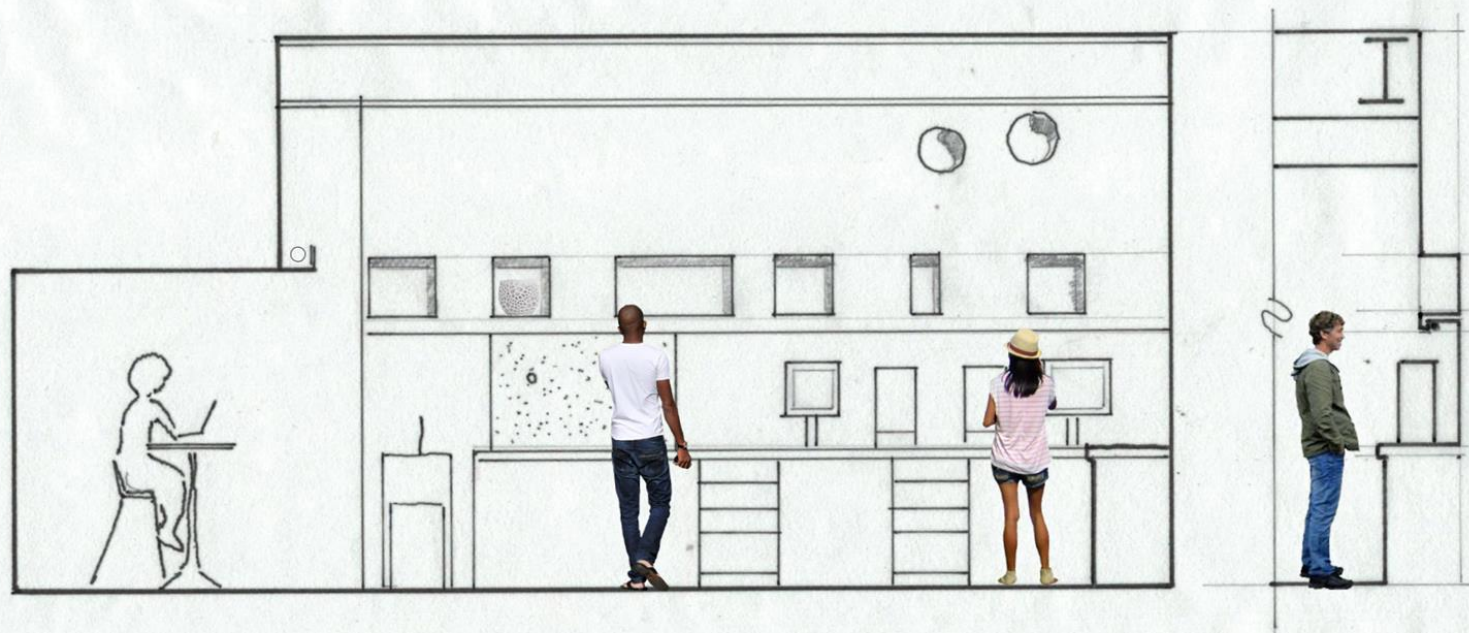
TYPE 3A CONSTRUCTION	
BUILDING ELEMENT	FIRE RATING
LOADBEARING EXTERIOR WALLS	2 HOUR
NON-LOADBEARING EXTERIOR WALLS	0 HOUR
FLOOR SYSTEMS	1 HOUR, NOT LESS THAN RATING OF WALLS SUPPORTED
STAIR AND ELEVATOR SHAFTS	2 HOUR ONE HOUR IF CONNECTING THREE OR FEWER STORIES
MECHANICAL AND OTHER SHAFTS	2 HOUR ONE HOUR IF CONNECTING THREE OR FEWER STORIES
EXIT ACCESS CORRIDORS	0 HOUR
STRUCTURAL MEMBERS SUPPORTING WALLS	1 HOUR
ROOF CONSTRUCTION	1 HOUR IF 15' OR LESS TO LOWEST ROOF MEMBER
ELEVATOR MACHINE ROOM	2 HOUR
STORAGE ROOMS GREATER THAN 50 S.F.	SMOKE PARTITIONS

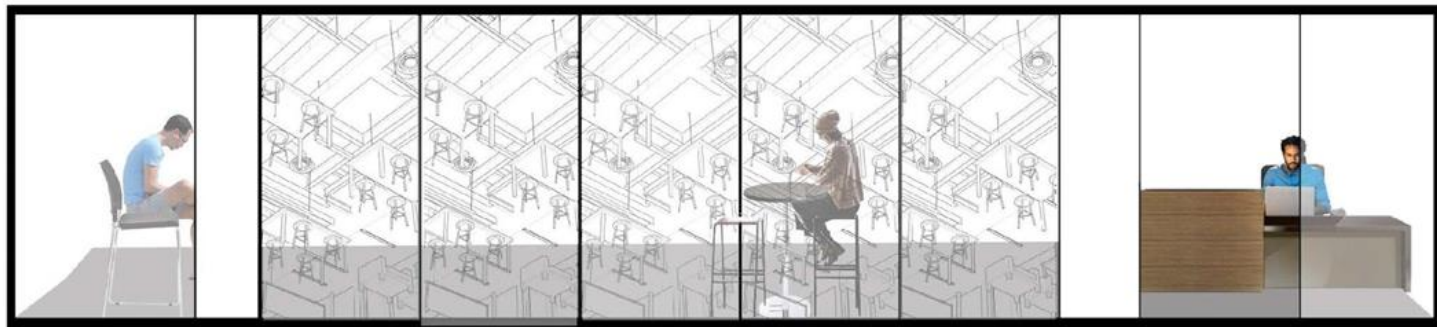
TYPE 2C CONSTRUCTION	
BUILDING ELEMENT	FIRE RATING
LOADBEARING EXTERIOR WALLS	2 HOUR
NON-LOADBEARING EXTERIOR WALLS	0 HOUR
FLOOR SYSTEMS	1 HOUR, NOT LESS THAN RATING OF WALLS SUPPORTED
STAIR AND ELEVATOR SHAFTS	2 HOUR ONE HOUR IF CONNECTING THREE OR FEWER STORIES
MECHANICAL AND OTHER SHAFTS	2 HOUR ONE HOUR IF CONNECTING THREE OR FEWER STORIES
EXIT ACCESS CORRIDORS	0 HOUR
STRUCTURAL MEMBERS SUPPORTING WALLS	1 HOUR
ROOF CONSTRUCTION	1 HOUR IF 15' OR LESS TO LOWEST ROOF MEMBER
STORAGE ROOMS GREATER THAN 50 S.F.	SMOKE PARTITIONS

--- 2-HR RATING  
--- SMOKE SEPARATION

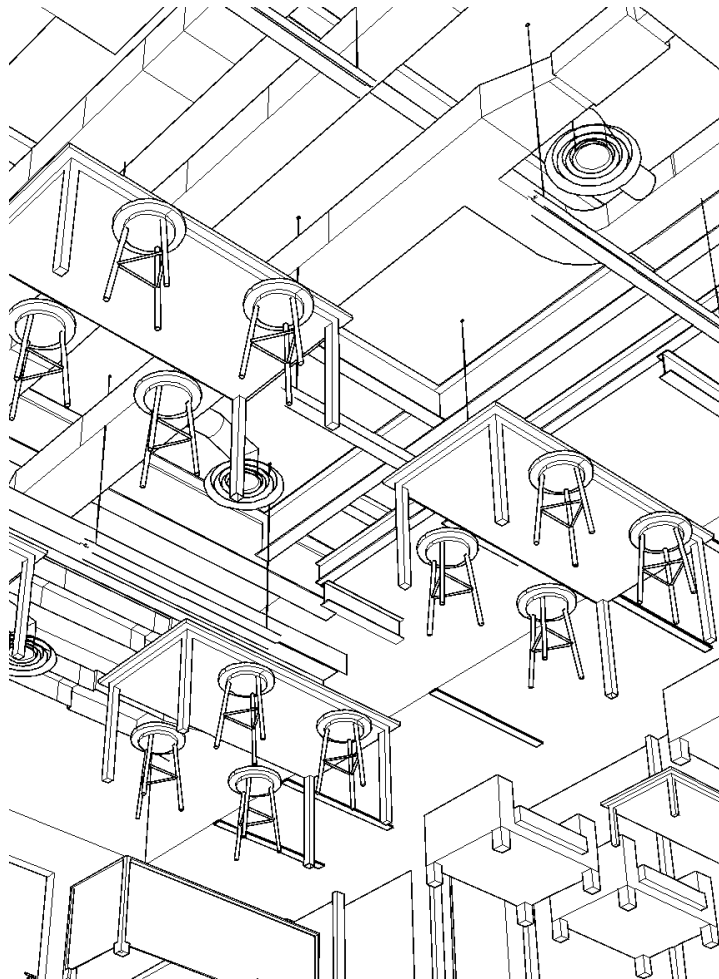


The "Garage"

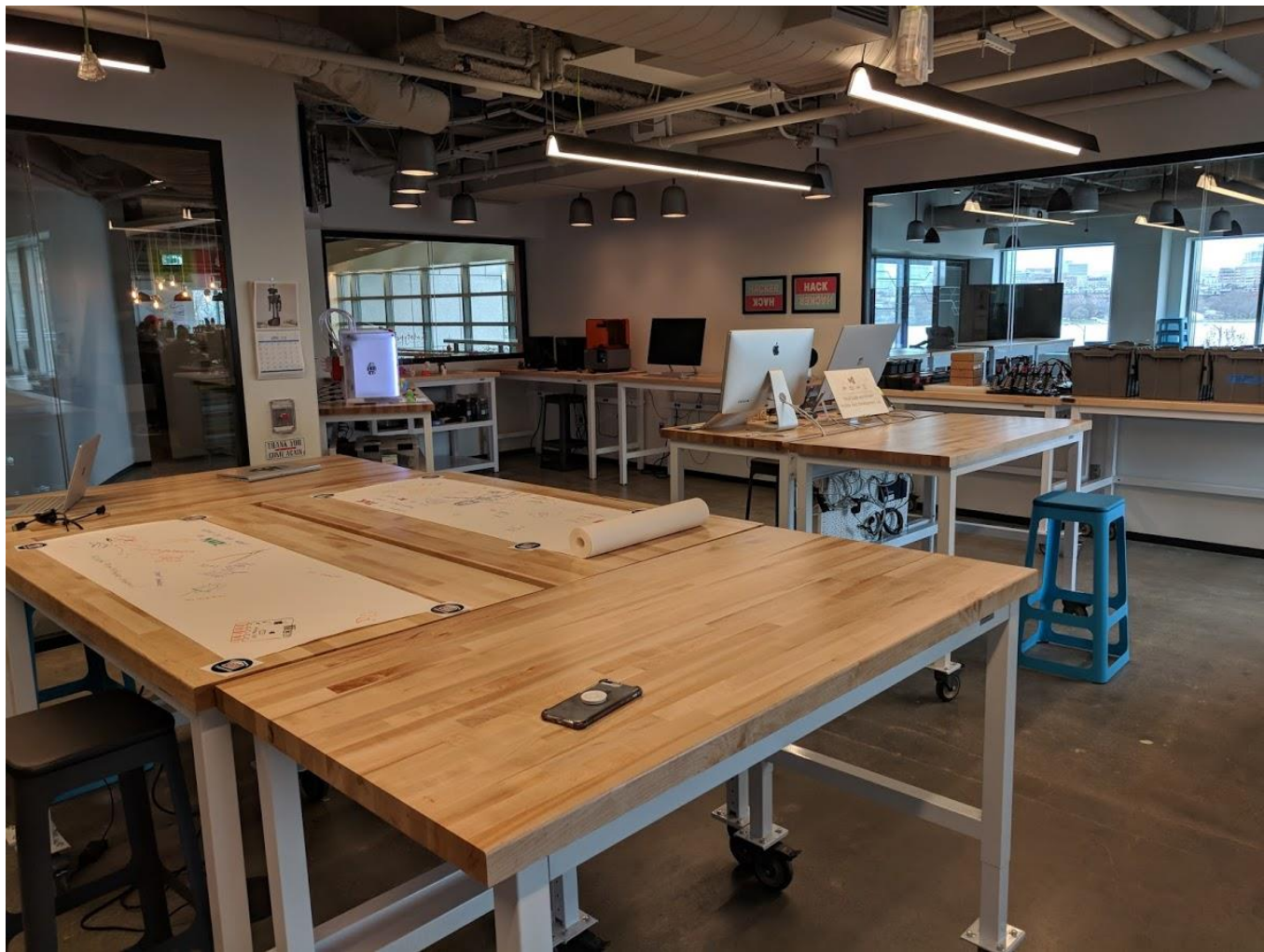


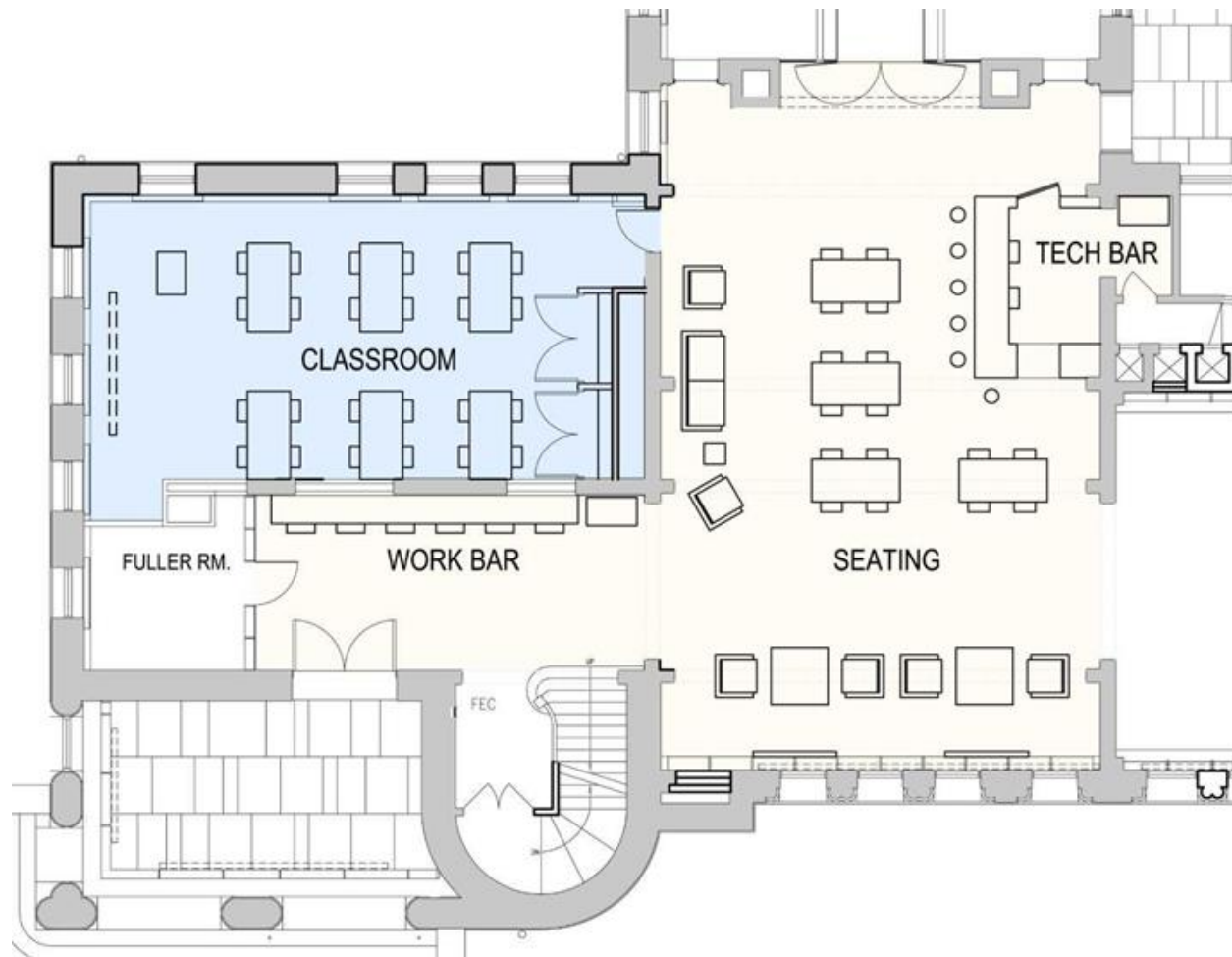


## Etching Detail







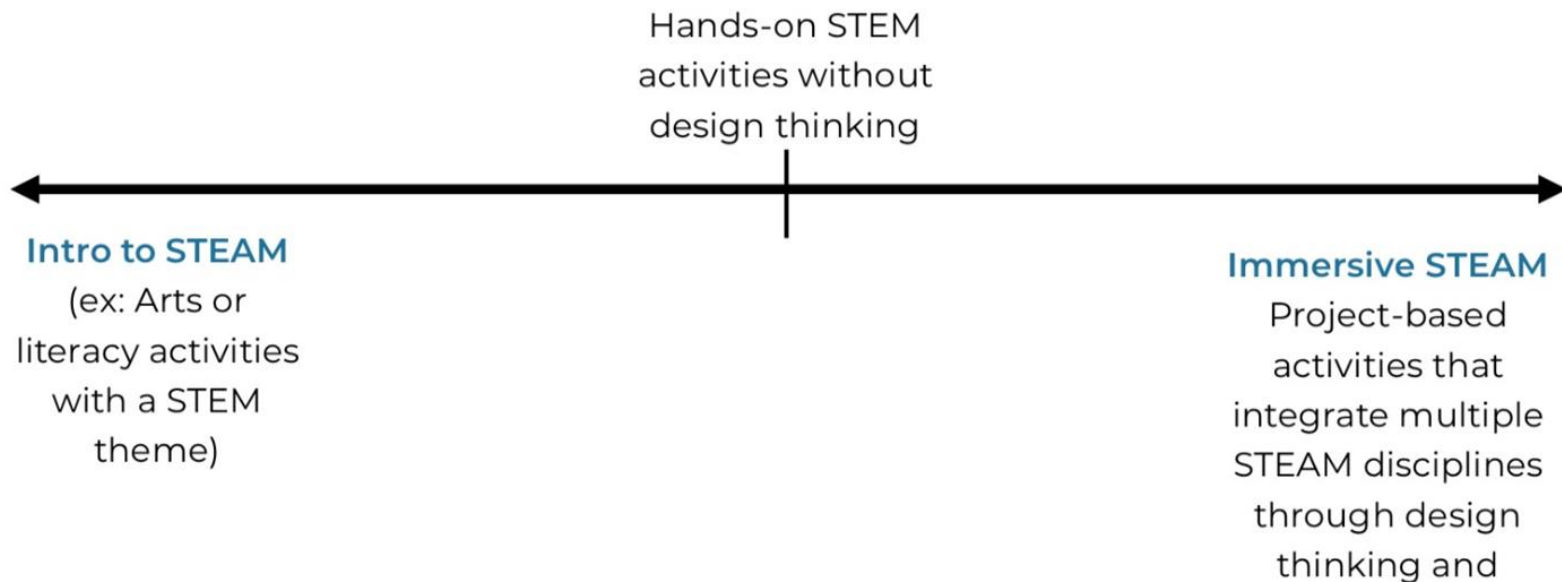


# FAB FOUNDATION



## The STEAM Initiative defines STEAM programming as:

Programming that integrates any combination of the STEAM content areas; it also includes any programming and curriculum that focuses on developing content and skills in science, technology, engineering, and math alone. Programming that focuses only on the Arts is not considered to be STEAM.





## Robots Make a Difference

Tuesdays 3:30 PM - 6:30 PM

October 2 - December 18

Main Library

This course will introduce students 13 and older to the world of robotics using a humanities first approach. They will use the design process to understand the daily challenges of people with disabilities. Students will define relevant problems that they would like to address, explore potential solutions, and ultimately, build robotic prototypes demonstrating their solutions. Skills learned include human-centered design, coding, 3D - modeling and more.